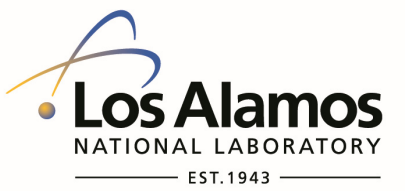
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Periodic Monitoring Report for Technical Area 21 Monitoring Group, September 2–September 17, 2014



Prepared by the Environmental Programs Directorate

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EP2015-0003

Periodic Monitoring Report for Technical Area 21 Monitoring Group, September 2–September 17, 2014

February 2015

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EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the fiscal year 2014, fourth quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Technical Area 21 monitoring group. This PME was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2014 Monitoring Year, October 2013–September 2014, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from September 2 to September 17, 2014, and included the monitoring of groundwater wells and well screens. This report also includes any results from previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of a PME are also included in this report.

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

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

No groundwater results from previous PME samples reported in this PMR were above applicable screening levels. Three results from groundwater samples collected during this PME were above screening levels.

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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
DCS	Derived Concentration Technical Standard (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
ESH	Environment, Safety, and Health (Directorate)
gpm	gallons per minute
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MDL	method detection limit
N	no (best value flag code)
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NM HH OO	Human health organism only, New Mexico surface-water standards
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event
PMR	periodic monitoring report
PQL	practical quantitation limit
QC	quality control
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 2014, fourth quarter, annual groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Technical Area 21 (TA-21) monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2014 Monitoring Year, October 2013–September 2014 (2014 IFGMP) (LANL 2013, 241962), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from September 2 to September 17, 2014, and included sampling of groundwater wells and well screens.

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

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

This report presents the following information:

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

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

1.1 Background

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 leakage from an underground diesel fuel

line. 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 2014 IFGMP (LANL 2013, 241962).

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

3.0 MONITORING RESULTS

3.1 Methods and Procedures

All methods and procedures used to perform the field activities associated with the PME are documented in the 2014 IFGMP (LANL 2013, 241962).

3.2 Field Parameter Results

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

3.3 Groundwater Elevations

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 method detection limits (MDLs) are greater than screening levels. For some of these analytes, the MDL is much lower than for earlier analyses: the MDL for hexachlorobenzene is

0.3% of the prior MDL, and the MDL for n-nitrosodimethylamine is 15% of the prior MDL. The MDL for 2-chloro-1,3-butadiene is just 5% above the EPA regional tap water screening level. Table 3.4-3 presents a list of analytes for which the MDLs are now below 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 2014 IFGMP (LANL 2013, 241962). Purge water is managed and characterized in accordance with waste profile form 39268, a copy of which was included in Appendix F of a previous PMR (LANL 2008, 103737), and ENV-RCRA-QP-010.3, Land Application of Groundwater. ENV-RCRA-QP-010.3 implements the NMED-approved Notice of Intent Decision Tree for land application of drilling, development, rehabilitation, and sampling of purge water.

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

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

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

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

Data validation determines the quality of an analytical data set. Data validation focuses on specific quality assurance samples, such as matrix spikes, duplicates, surrogates, method blanks, 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. This report was prepared using the May 2014 EPA regional screening levels.
- 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 Technical Standards (DCSs) 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. Appendix E contains all locations where screening levels were exceeded, not just those scheduled to be sampled during this PME. 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.

Figure 4.2-1 shows concentrations at all locations from the current PME for analytes that exceeded their screening level at more than one sampling location. For example, filtered perchlorate was above the

Consent Order screening level at more than one well, so all available perchlorate values from the current PME are shown in addition to the screening-level exceedances, which are displayed in yellow boxes.

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 applicable screening levels.

The unfiltered gross-alpha activity of 20.2 pCi/L at intermediate well LAOI(a)-1.1 was above the 15-pCi/L EPA MCL screening level (Table 4.2-2). This result is the highest of the measurements taken since 2004 and the first above the screening level. Earlier gross-alpha activity results range from 1.04 pCi/L to 10.3 pCi/L and include two results that were nondetects. The turbidity measured just before sample collection was 91.2 nephelometric turbidity units. The high unfiltered gross-alpha activity may be caused by the high sample turbidity.

The perchlorate concentration at intermediate well LAOI-3.2 was 5.71 µg/L, above the Consent Order screening level of 4 µg/L. The recent result is consistent with earlier measurements since 2005 that are between 2.46 µg/L and 9.0 µg/L.

The perchlorate concentration of 6.48 µg/L at intermediate well R-6i was above the Consent Order screening level of 4 µg/L. Earlier measurements since 2005 are between 5.98 µg/L and 9.48 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 applicable screening levels. Three 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, with some exceptions. The gross-alpha activity at LAOI(a)-1.1 is the highest to date and the first above the screening level.

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 or ESH ID. This information is also included in text citations. ER IDs were assigned by the Environmental Programs Directorate's Records Processing Facility (IDs through 599999), and ESH IDs are assigned by the Environment, Safety, and Health (ESH) Directorate (IDs 600000 and above). IDs are used to locate documents in the Laboratory's Electronic Document Management System and, where applicable, in the master reference set.

Copies of the master reference set are maintained at the NMED Hazardous Waste Bureau and the ESH 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), May 2013. "Interim Facility-Wide Groundwater Monitoring Plan for the 2014 Monitoring Year, October 2013–September 2014," Los Alamos National Laboratory document LA-UR-13-23479, Los Alamos, New Mexico. (LANL 2013, 241962)

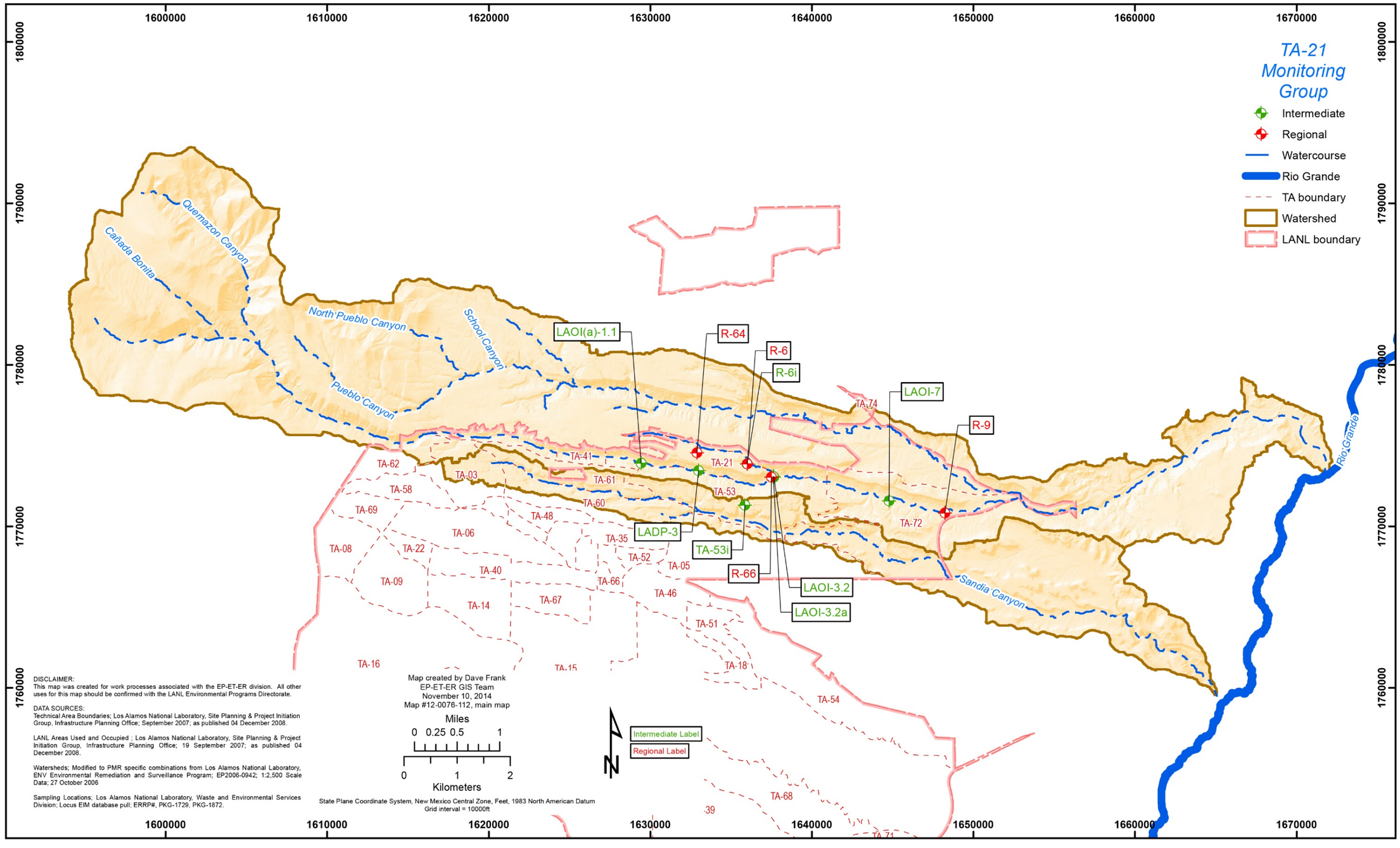


Figure 2.0-1 Locations scheduled to be monitored for this PME (see Table 3.4-1).

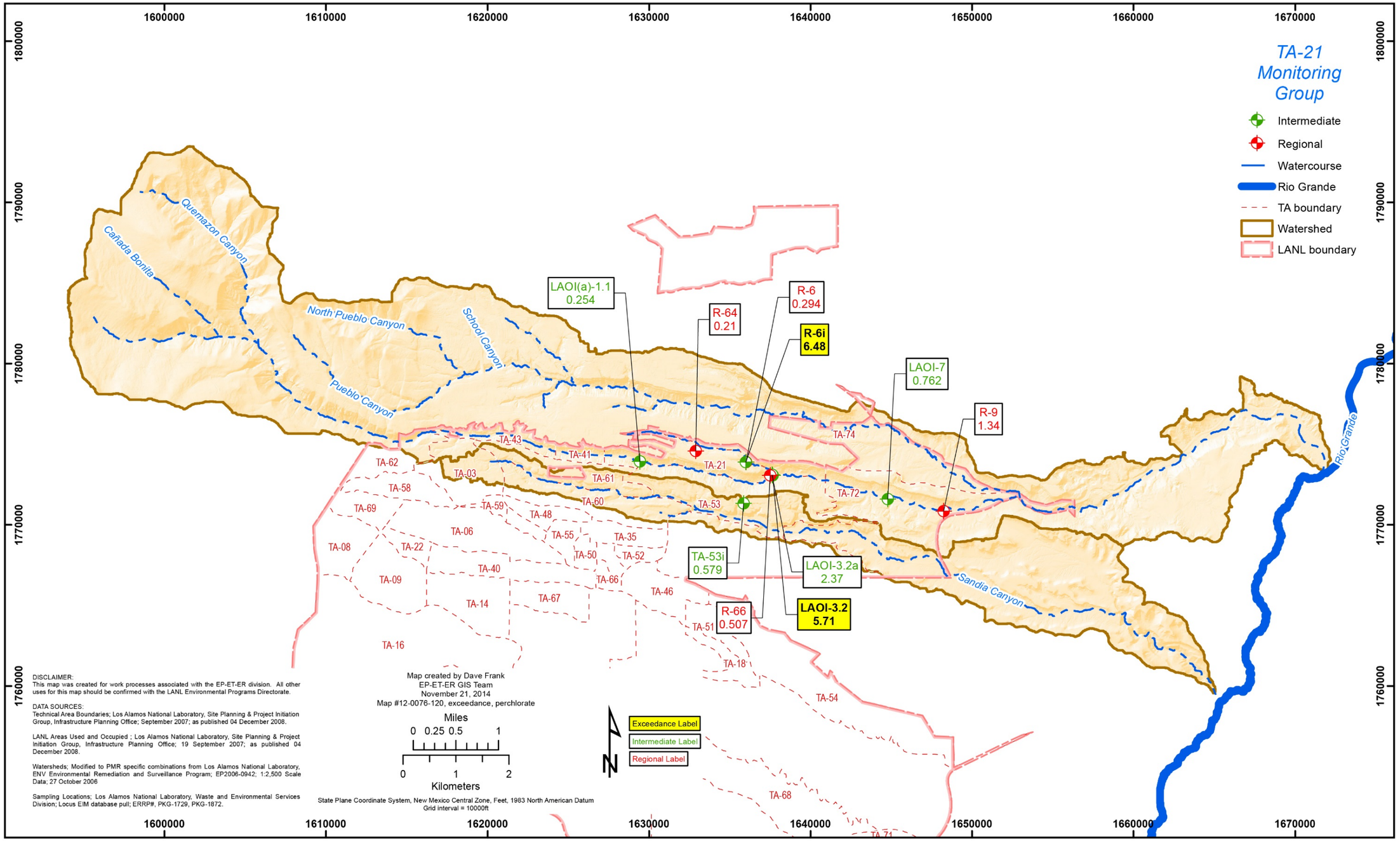


Figure 4.2-1 Monitoring group filtered perchlorate concentrations in µg/L. The Consent Order screening level is 4 µg/L

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	n/a[b]	9	316	325	n/a[b]	n/a	n/a
LAOI(a)-1.1	09/02/14	9.8	295.2	305	5.6	34.9	0.85
LAOI-3.2	09/03/14	9.5	153.3	162.8	6.2	18.7	0.11
LAOI-3.2a	09/04/14	9.6	181.4	191	4	12	0.75
LAOI-7	09/11/14	19.6	240	259.6	10.8	33.5	1.86
R-6i	09/04/14	10	602	612	17.8	65.6	4.1
TA-53i	09/10/14	10	600	610	21.2	88	2.94
Regional							
R-6	09/12/14	23	1205	1228	75.3	316	7.9
R-64	09/02/14	20.5	1285	1305.5	45.9	221	6.9
R-66	09/03/14	20.3	819.4	839.7	56.1	170	5
R-9	09/05/14	65.5	683	748.5	54.6	240	10

[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
LADP-3	Not sampled	The location was not sampled because it was dry.	The location will be sampled during the next scheduled PME.

Table 3.4-2
Analytes with MDLs above Screening Levels

Analyte or CAS[a] No.	Analyte Name	MDL	PQL[b]	Screening Level	Unit	Screening-Level Type
Semivolatile Organic Compounds						
103-33-3	Azobenzene	3.12	10.39	1.2	µg/L	EPA Regional Tap
92-87-5	Benzidine	4.05	10.39	0.00110	µg/L	EPA Regional Tap
111-44-4	Bis(2-chloroethyl)ether	3.12	10.39	0.14	µg/L	EPA Regional Tap
91-94-1	Dichlorobenzidine[3,3'-]	3.12	10.39	0.28	µg/L	NM HH OO[c]
534-52-1	Dinitro-2-methylphenol[4,6-]	3.12	10.39	1.5	µg/L	EPA Regional Tap
118-74-1	Hexachlorobenzene	0.00650	0.0208	0.0029	µg/L	NM HH OO
55-18-5	Nitrosodiethylamine[N-]	3.12	10.39	0.0017	µg/L	EPA Regional Tap
62-75-9	Nitrosodimethylamine[N-]	3.12	10.39	0.0049	µg/L	EPA Regional Tap
924-16-3	Nitroso-di-n-butylamine[N-]	3.12	10.39	0.027	µg/L	EPA Regional Tap
621-64-7	Nitroso-di-n-propylamine[N-]	3.12	10.39	0.11	µg/L	EPA Regional Tap
930-55-2	Nitrosopyrrolidine[N-]	3.12	10.39	0.37	µg/L	EPA Regional Tap
Volatile Organic Compounds						
107-02-8	Acrolein	1.5	5.0	0.042	µg/L	EPA Regional Tap
107-13-1	Acrylonitrile	1.05	5.0	0.52	µg/L	EPA Regional Tap
126-99-8	Chloro-1,3-butadiene[2-]	0.210	1.0	0.19	µg/L	EPA Regional Tap
96-18-4	Trichloropropane[1,2,3-]	0.3	1.0	0.0075	µg/L	EPA Regional Tap

Note: This table is applicable to samples reported in this PMR.

[a] CAS = Chemical Abstracts Service.

[b] PQL = Practical quantitation limit.

[c] NM HH OO = Human health organism only, New Mexico surface-water standards.

Table 3.4-3
Analytes with MDLs Now below Screening Levels

Analyte or CAS[a] No.	Analyte Name	MDL	PQL[b]	Screening Level	Unit	Screening-Level Type
Semivolatile Organic Compounds						
56-55-3	Benzo(a)anthracene	0.0168	0.0524	0.18	µg/L	NM HH OO[c]
50-32-8	Benzo(a)pyrene	0.0168	0.0524	0.18	µg/L	NM HH OO
205-99-2	Benzo(b)fluoranthene	0.0168	0.0524	0.18	µg/L	NM HH OO
53-70-3	Dibenz(a,h)anthracene	0.0168	0.0524	0.034	µg/L	EPA Regional Tap
193-39-5	Indeno(1,2,3-cd)pyrene	0.0168	0.0524	0.18	µg/L	NM HH OO
87-86-5	Pentachlorophenol	0.0523	0.261	1	µg/L	EPA MCL
Volatile Organic Compounds						
96-12-8	Dibromo-3-chloropropane[1,2-]	0.00596	0.0199	0.2	µg/L	EPA MCL
106-93-4	Dibromoethane[1,2-]	0.00596	0.0199	0.05	µg/L	EPA MCL
126-98-7	Methacrylonitrile	1.05	5.0	1.9	µg/L	EPA Regional Tap

Note: This table is applicable to samples reported in this PMR.

[a] CAS = Chemical Abstracts Service.

[b] PQL = Practical quantitation limit.

[c] NM HH OO = Human health organism only, New Mexico surface-water standards.

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 458.1	DOE BCGs	n/a[a]	X[b]
DOE Order 458.1	DOE 100-mrem Public Dose DCS	X	n/a
DOE Order 458.1	DOE 4-mrem Drinking Water DCS	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							
LAOI(a)-1.1	09/02/14	Gross alpha	UF[a]	20.2	pCi/L	15	EPA MCL
LAOI-3.2	09/03/14	Perchlorate	F[b]	5.71	µg/L	4	Consent Order
R-6i	09/04/14	Perchlorate	F	6.48	µg/L	4	Consent Order

[a] UF = Unfiltered

[b] 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
LAOI(a)-1.1	295.2	09/02/14	WG[a]	Dissolved Oxygen	9.41	mg/L	CALA-14-86010
LAOI(a)-1.1	295.2	08/15/13	WG	Dissolved Oxygen	9.37	mg/L	CALA-13-39185
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	09/02/14	WG	Flow (in gpm[b])	0.85	gpm	CALA-14-86010
LAOI(a)-1.1	295.2	03/08/11	WG	Flow (in gpm)	0.4	gpm	CALA-11-5112
LAOI(a)-1.1	295.2	08/19/10	WG	Flow (in gpm)	0.7	gpm	CALA-10-25215
LAOI(a)-1.1	295.2	01/13/10	WG	Flow (in gpm)	0.15	gpm	CALA-10-9157
LAOI(a)-1.1	295.2	07/07/09	WG	Flow (in gpm)	0.45	gpm	CALA-09-11125
LAOI(a)-1.1	295.2	09/02/14	WG	Oxidation-Reduction Potential	167.1	mV	CALA-14-86010
LAOI(a)-1.1	295.2	08/15/13	WG	Oxidation-Reduction Potential	184.1	mV	CALA-13-39185
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	09/02/14	WG	pH	6.68	SU[c]	CALA-14-86010
LAOI(a)-1.1	295.2	08/15/13	WG	pH	6.77	SU	CALA-13-39185
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	09/02/14	WG	Specific Conductance	106	µS/cm	CALA-14-86010
LAOI(a)-1.1	295.2	08/15/13	WG	Specific Conductance	99	µS/cm	CALA-13-39185
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	09/02/14	WG	Temperature	9.97	deg C	CALA-14-86010
LAOI(a)-1.1	295.2	08/15/13	WG	Temperature	10.02	deg C	CALA-13-39185
LAOI(a)-1.1	295.2	09/04/12	WG	Temperature	9.65	deg C	CALA-12-22816

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/02/14	WG	Turbidity	91.2	NTU[d]	CALA-14-86010
LAOI(a)-1.1	295.2	08/15/13	WG	Turbidity	146.6	NTU	CALA-13-39185
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
LAOI-3.2	153.3	09/03/14	WG	Dissolved Oxygen	12.2	mg/L	CALA-14-86011
LAOI-3.2	153.3	08/13/13	WG	Dissolved Oxygen	11.3	mg/L	CALA-13-39186
LAOI-3.2	153.3	12/21/12	WG	Dissolved Oxygen	10.94	mg/L	CALA-13-24752
LAOI-3.2	153.3	03/22/11	WG	Dissolved Oxygen	11.99	mg/L	CALA-11-5115
LAOI-3.2	153.3	08/23/10	WG	Dissolved Oxygen	12.06	mg/L	CALA-10-25220
LAOI-3.2	153.3	09/03/14	WG	Flow (in gpm)	0.11	gpm	CALA-14-86011
LAOI-3.2	153.3	03/22/11	WG	Flow (in gpm)	0.2	gpm	CALA-11-5115
LAOI-3.2	153.3	08/23/10	WG	Flow (in gpm)	0.17	gpm	CALA-10-25220
LAOI-3.2	153.3	01/08/10	WG	Flow (in gpm)	0.16	gpm	CALA-10-9174
LAOI-3.2	153.3	07/08/09	WG	Flow (in gpm)	0.16	gpm	CALA-09-11149
LAOI-3.2	153.3	09/03/14	WG	Oxidation-Reduction Potential	174.5	mV	CALA-14-86011
LAOI-3.2	153.3	08/13/13	WG	Oxidation-Reduction Potential	201.6	mV	CALA-13-39186
LAOI-3.2	153.3	12/21/12	WG	Oxidation-Reduction Potential	121.7	mV	CALA-13-24752
LAOI-3.2	153.3	03/22/11	WG	Oxidation-Reduction Potential	131.7	mV	CALA-11-5115
LAOI-3.2	153.3	08/23/10	WG	Oxidation-Reduction Potential	11.4	mV	CALA-10-25220
LAOI-3.2	153.3	09/03/14	WG	pH	6.55	SU	CALA-14-86011
LAOI-3.2	153.3	08/13/13	WG	pH	6.5	SU	CALA-13-39186
LAOI-3.2	153.3	12/21/12	WG	pH	6.59	SU	CALA-13-24752
LAOI-3.2	153.3	03/22/11	WG	pH	6.61	SU	CALA-11-5115
LAOI-3.2	153.3	08/23/10	WG	pH	6.23	SU	CALA-10-25220
LAOI-3.2	153.3	09/03/14	WG	Specific Conductance	261	µS/cm	CALA-14-86011

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAOI-3.2	153.3	08/13/13	WG	Specific Conductance	283	µS/cm	CALA-13-39186
LAOI-3.2	153.3	12/21/12	WG	Specific Conductance	265	µS/cm	CALA-13-24752
LAOI-3.2	153.3	03/22/11	WG	Specific Conductance	242	µS/cm	CALA-11-5115
LAOI-3.2	153.3	08/23/10	WG	Specific Conductance	208	µS/cm	CALA-10-25220
LAOI-3.2	153.3	09/03/14	WG	Temperature	12.61	deg C	CALA-14-86011
LAOI-3.2	153.3	08/13/13	WG	Temperature	12.2	deg C	CALA-13-39186
LAOI-3.2	153.3	12/21/12	WG	Temperature	10.61	deg C	CALA-13-24752
LAOI-3.2	153.3	03/22/11	WG	Temperature	11.28	deg C	CALA-11-5115
LAOI-3.2	153.3	08/23/10	WG	Temperature	11.8	deg C	CALA-10-25220
LAOI-3.2	153.3	09/03/14	WG	Turbidity	1.47	NTU	CALA-14-86011
LAOI-3.2	153.3	08/13/13	WG	Turbidity	0.7	NTU	CALA-13-39186
LAOI-3.2	153.3	12/21/12	WG	Turbidity	0.73	NTU	CALA-13-24752
LAOI-3.2	153.3	03/22/11	WG	Turbidity	0.19	NTU	CALA-11-5115
LAOI-3.2	153.3	08/23/10	WG	Turbidity	1.4	NTU	CALA-10-25220
LAOI-3.2a	181.4	09/04/14	WG	Dissolved Oxygen	8.83	mg/L	CALA-14-86012
LAOI-3.2a	181.4	08/14/13	WG	Dissolved Oxygen	8.78	mg/L	CALA-13-39205
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	09/04/14	WG	Flow (in gpm)	0.75	gpm	CALA-14-86012
LAOI-3.2a	181.4	03/22/11	WG	Flow (in gpm)	0.8	gpm	CALA-11-5159
LAOI-3.2a	181.4	08/20/10	WG	Flow (in gpm)	1	gpm	CALA-10-25221
LAOI-3.2a	181.4	07/08/09	WG	Flow (in gpm)	1	gpm	CALA-09-11150
LAOI-3.2a	181.4	01/12/09	WG	Flow (in gpm)	0.9	gpm	CALA-09-1737
LAOI-3.2a	181.4	09/04/14	WG	Oxidation-Reduction Potential	237.4	mV	CALA-14-86012
LAOI-3.2a	181.4	08/14/13	WG	Oxidation-Reduction Potential	192.6	mV	CALA-13-39205
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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAOI-3.2a	181.4	08/20/10	WG	Oxidation-Reduction Potential	174.4	mV	CALA-10-25221
LAOI-3.2a	181.4	09/04/14	WG	pH	6.26	SU	CALA-14-86012
LAOI-3.2a	181.4	08/14/13	WG	pH	6.61	SU	CALA-13-39205
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	09/04/14	WG	Specific Conductance	276	µS/cm	CALA-14-86012
LAOI-3.2a	181.4	08/14/13	WG	Specific Conductance	273	µS/cm	CALA-13-39205
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	09/04/14	WG	Temperature	12	deg C	CALA-14-86012
LAOI-3.2a	181.4	08/14/13	WG	Temperature	12.17	deg C	CALA-13-39205
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	09/04/14	WG	Turbidity	0.39	NTU	CALA-14-86012
LAOI-3.2a	181.4	08/14/13	WG	Turbidity	0.32	NTU	CALA-13-39205
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
LAOI-3.2a	181.4	08/20/10	WG	Turbidity	0.32	NTU	CALA-10-25221
LAOI-7	240	09/11/14	WG	Dissolved Oxygen	7.88	mg/L	CALA-14-86013
LAOI-7	240	08/08/13	WG	Dissolved Oxygen	7.99	mg/L	CALA-13-39188
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	09/11/14	WG	Flow (in gpm)	1.86	gpm	CALA-14-86013
LAOI-7	240	03/10/11	WG	Flow (in gpm)	3.3	gpm	CALA-11-5160

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAOI-7	240	08/26/10	WG	Flow (in gpm)	3.3	gpm	CALA-10-25225
LAOI-7	240	01/14/10	WG	Flow (in gpm)	3	gpm	CALA-10-9165
LAOI-7	240	07/13/09	WG	Flow (in gpm)	3.25	gpm	CALA-09-11155
LAOI-7	240	09/11/14	WG	Oxidation-Reduction Potential	75.4	mV	CALA-14-86013
LAOI-7	240	08/08/13	WG	Oxidation-Reduction Potential	156.5	mV	CALA-13-39188
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	09/11/14	WG	pH	7.24	SU	CALA-14-86013
LAOI-7	240	08/08/13	WG	pH	7.23	SU	CALA-13-39188
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	09/11/14	WG	Specific Conductance	202	µS/cm	CALA-14-86013
LAOI-7	240	08/08/13	WG	Specific Conductance	212	µS/cm	CALA-13-39188
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	09/11/14	WG	Temperature	15.18	deg C	CALA-14-86013
LAOI-7	240	08/08/13	WG	Temperature	14.82	deg C	CALA-13-39188
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	09/11/14	WG	Turbidity	0.9	NTU	CALA-14-86013
LAOI-7	240	08/08/13	WG	Turbidity	2.2	NTU	CALA-13-39188
LAOI-7	240	09/11/12	WG	Turbidity	2.15	NTU	CALA-12-22894
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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-6	1205	09/12/14	WG	Dissolved Oxygen	5.62	mg/L	CALA-14-86014
R-6	1205	02/03/14	WG	Dissolved Oxygen	5.92	mg/L	CALA-14-54393
R-6	1205	08/07/13	WG	Dissolved Oxygen	6.25	mg/L	CALA-13-39210
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	09/12/14	WG	Flow (in gpm)	7.9	gpm	CALA-14-86014
R-6	1205	02/03/14	WG	Flow (in gpm)	8.6	gpm	CALA-14-54393
R-6	1205	03/17/11	WG	Flow (in gpm)	7.5	gpm	CALA-11-5173
R-6	1205	01/08/10	WG	Flow (in gpm)	3.82	gpm	CALA-10-9179
R-6	1205	07/14/09	WG	Flow (in gpm)	8.5	gpm	CALA-09-11164
R-6	1205	09/12/14	WG	Oxidation-Reduction Potential	112.3	mV	CALA-14-86014
R-6	1205	02/03/14	WG	Oxidation-Reduction Potential	84.5	mV	CALA-14-54393
R-6	1205	08/07/13	WG	Oxidation-Reduction Potential	143.1	mV	CALA-13-39210
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	09/12/14	WG	pH	8.24	SU	CALA-14-86014
R-6	1205	02/03/14	WG	pH	8.06	SU	CALA-14-54393
R-6	1205	08/07/13	WG	pH	8.17	SU	CALA-13-39210
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	09/12/14	WG	Specific Conductance	142	µS/cm	CALA-14-86014
R-6	1205	02/03/14	WG	Specific Conductance	142	µS/cm	CALA-14-54393
R-6	1205	08/07/13	WG	Specific Conductance	142	µS/cm	CALA-13-39210
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	09/12/14	WG	Temperature	22.77	deg C	CALA-14-86014
R-6	1205	02/03/14	WG	Temperature	20.04	deg C	CALA-14-54393
R-6	1205	08/07/13	WG	Temperature	23	deg C	CALA-13-39210

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/12/14	WG	Turbidity	0.8	NTU	CALA-14-86014
R-6	1205	02/03/14	WG	Turbidity	0.7	NTU	CALA-14-54393
R-6	1205	08/07/13	WG	Turbidity	0.6	NTU	CALA-13-39210
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-64	1285	09/02/14	WG	Dissolved Oxygen	6.62	mg/L	CALA-14-86015
R-64	1285	02/04/14	WG	Dissolved Oxygen	6.53	mg/L	CALA-14-54394
R-64	1285	08/16/13	WG	Dissolved Oxygen	6.64	mg/L	CALA-13-39193
R-64	1285	06/03/13	WG	Dissolved Oxygen	7.05	mg/L	CALA-13-33425
R-64	1285	06/03/13	WG	Dissolved Oxygen	2.46	mg/L	CALA-13-34763
R-64	1285	06/03/13	WG	Dissolved Oxygen	6.29	mg/L	CALA-13-34764
R-64	1285	02/19/13	WG	Dissolved Oxygen	6.74	mg/L	CALA-13-28684
R-64	1285	09/02/14	WG	Flow (in gpm)	6.9	gpm	CALA-14-86015
R-64	1285	02/04/14	WG	Flow (in gpm)	7.3	gpm	CALA-14-54394
R-64	1285	12/08/11	WG	Flow (in gpm)	3.3	gpm	CALA-12-1766
R-64	1285	09/06/11	WG	Flow (in gpm)	5	gpm	CALA-11-26451
R-64	1285	09/06/11	WG	Flow (in gpm)	5	gpm	CALA-11-26453
R-64	1285	09/06/11	WG	Flow (in gpm)	5	gpm	CALA-11-26447
R-64	1285	09/06/11	WG	Flow (in gpm)	5	gpm	CALA-11-26449
R-64	1285	09/06/11	WG	Flow (in gpm)	5	gpm	CALA-11-26335
R-64	1285	09/06/11	WG	Flow (in gpm)	5	gpm	CALA-11-26455
R-64	1285	09/06/11	WG	Flow (in gpm)	5	gpm	CALA-11-26457
R-64	1285	09/02/14	WG	Oxidation-Reduction Potential	97.4	mV	CALA-14-86015
R-64	1285	02/04/14	WG	Oxidation-Reduction Potential	120.2	mV	CALA-14-54394
R-64	1285	08/16/13	WG	Oxidation-Reduction Potential	101.3	mV	CALA-13-39193
R-64	1285	06/03/13	WG	Oxidation-Reduction Potential	186.9	mV	CALA-13-33425

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-64	1285	06/03/13	WG	Oxidation-Reduction Potential	158.2	mV	CALA-13-34763
R-64	1285	06/03/13	WG	Oxidation-Reduction Potential	173.1	mV	CALA-13-34764
R-64	1285	02/19/13	WG	Oxidation-Reduction Potential	167.5	mV	CALA-13-28684
R-64	1285	09/02/14	WG	pH	8.38	SU	CALA-14-86015
R-64	1285	02/04/14	WG	pH	8.21	SU	CALA-14-54394
R-64	1285	08/16/13	WG	pH	8.08	SU	CALA-13-39193
R-64	1285	06/03/13	WG	pH	8.05	SU	CALA-13-33425
R-64	1285	06/03/13	WG	pH	8.57	SU	CALA-13-34763
R-64	1285	06/03/13	WG	pH	8.18	SU	CALA-13-34764
R-64	1285	02/19/13	WG	pH	8.08	SU	CALA-13-28684
R-64	1285	09/02/14	WG	Specific Conductance	126	µS/cm	CALA-14-86015
R-64	1285	02/04/14	WG	Specific Conductance	128	µS/cm	CALA-14-54394
R-64	1285	08/16/13	WG	Specific Conductance	129	µS/cm	CALA-13-39193
R-64	1285	06/03/13	WG	Specific Conductance	134	µS/cm	CALA-13-33425
R-64	1285	06/03/13	WG	Specific Conductance	185	µS/cm	CALA-13-34763
R-64	1285	06/03/13	WG	Specific Conductance	141	µS/cm	CALA-13-34764
R-64	1285	02/19/13	WG	Specific Conductance	126	µS/cm	CALA-13-28684
R-64	1285	09/02/14	WG	Temperature	19.54	deg C	CALA-14-86015
R-64	1285	02/04/14	WG	Temperature	18.07	deg C	CALA-14-54394
R-64	1285	08/16/13	WG	Temperature	19.34	deg C	CALA-13-39193
R-64	1285	06/03/13	WG	Temperature	19.41	deg C	CALA-13-33425
R-64	1285	06/03/13	WG	Temperature	16.39	deg C	CALA-13-34763
R-64	1285	06/03/13	WG	Temperature	19.18	deg C	CALA-13-34764
R-64	1285	02/19/13	WG	Temperature	18.08	deg C	CALA-13-28684
R-64	1285	09/02/14	WG	Turbidity	1.1	NTU	CALA-14-86015
R-64	1285	02/04/14	WG	Turbidity	2.9	NTU	CALA-14-54394
R-64	1285	08/16/13	WG	Turbidity	3.1	NTU	CALA-13-39193
R-64	1285	06/03/13	WG	Turbidity	4.2	NTU	CALA-13-33425

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-64	1285	06/03/13	WG	Turbidity	18.9	NTU	CALA-13-34763
R-64	1285	06/03/13	WG	Turbidity	6.9	NTU	CALA-13-34764
R-64	1285	02/19/13	WG	Turbidity	6.1	NTU	CALA-13-28684
R-66	819.4	09/03/14	WG	Dissolved Oxygen	6.79	mg/L	CALA-14-86016
R-66	819.4	02/06/14	WG	Dissolved Oxygen	7.03	mg/L	CALA-14-54395
R-66	819.4	08/16/13	WG	Dissolved Oxygen	7.13	mg/L	CALA-13-39194
R-66	819.4	06/04/13	WG	Dissolved Oxygen	7.28	mg/L	CALA-13-33426
R-66	819.4	02/20/13	WG	Dissolved Oxygen	6.82	mg/L	CALA-13-28685
R-66	819.4	09/03/14	WG	Flow (in gpm)	5	gpm	CALA-14-86016
R-66	819.4	02/06/14	WG	Flow (in gpm)	5	gpm	CALA-14-54395
R-66	819.4	01/16/12	WG	Flow (in gpm)	14.2	gpm	CALA-12-2110
R-66	819.4	09/03/14	WG	Oxidation-Reduction Potential	83.6	mV	CALA-14-86016
R-66	819.4	02/06/14	WG	Oxidation-Reduction Potential	130.3	mV	CALA-14-54395
R-66	819.4	08/16/13	WG	Oxidation-Reduction Potential	161.7	mV	CALA-13-39194
R-66	819.4	06/04/13	WG	Oxidation-Reduction Potential	160.3	mV	CALA-13-33426
R-66	819.4	02/20/13	WG	Oxidation-Reduction Potential	250.5	mV	CALA-13-28685
R-66	819.4	09/03/14	WG	pH	7.85	SU	CALA-14-86016
R-66	819.4	02/06/14	WG	pH	7.75	SU	CALA-14-54395
R-66	819.4	08/16/13	WG	pH	7.29	SU	CALA-13-39194
R-66	819.4	06/04/13	WG	pH	7.74	SU	CALA-13-33426
R-66	819.4	02/20/13	WG	pH	7.73	SU	CALA-13-28685
R-66	819.4	09/03/14	WG	Specific Conductance	193	µS/cm	CALA-14-86016
R-66	819.4	02/06/14	WG	Specific Conductance	194	µS/cm	CALA-14-54395
R-66	819.4	08/16/13	WG	Specific Conductance	193	µS/cm	CALA-13-39194
R-66	819.4	06/04/13	WG	Specific Conductance	194	µS/cm	CALA-13-33426
R-66	819.4	02/20/13	WG	Specific Conductance	190	µS/cm	CALA-13-28685
R-66	819.4	09/03/14	WG	Temperature	24.56	deg C	CALA-14-86016
R-66	819.4	02/06/14	WG	Temperature	22.16	deg C	CALA-14-54395

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-66	819.4	08/16/13	WG	Temperature	23.81	deg C	CALA-13-39194
R-66	819.4	06/04/13	WG	Temperature	23.78	deg C	CALA-13-33426
R-66	819.4	02/20/13	WG	Temperature	22.88	deg C	CALA-13-28685
R-66	819.4	09/03/14	WG	Turbidity	0.6	NTU	CALA-14-86016
R-66	819.4	02/06/14	WG	Turbidity	0.2	NTU	CALA-14-54395
R-66	819.4	08/16/13	WG	Turbidity	0.2	NTU	CALA-13-39194
R-66	819.4	06/04/13	WG	Turbidity	0.43	NTU	CALA-13-33426
R-66	819.4	02/20/13	WG	Turbidity	0.5	NTU	CALA-13-28685
R-6i	602	09/04/14	WG	Dissolved Oxygen	6.94	mg/L	CALA-14-86017
R-6i	602	08/12/13	WG	Dissolved Oxygen	7.18	mg/L	CALA-13-39195
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	09/04/14	WG	Flow (in gpm)	4.1	gpm	CALA-14-86017
R-6i	602	03/17/11	WG	Flow (in gpm)	3.7	gpm	CALA-11-5165
R-6i	602	08/19/10	WG	Flow (in gpm)	4.3	gpm	CALA-10-25228
R-6i	602	01/08/10	WG	Flow (in gpm)	4.25	gpm	CALA-10-9177
R-6i	602	07/14/09	WG	Flow (in gpm)	4.5	gpm	CALA-09-11157
R-6i	602	09/04/14	WG	Oxidation-Reduction Potential	100.1	mV	CALA-14-86017
R-6i	602	08/12/13	WG	Oxidation-Reduction Potential	125.6	mV	CALA-13-39195
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	09/04/14	WG	pH	7.53	SU	CALA-14-86017
R-6i	602	08/12/13	WG	pH	7.43	SU	CALA-13-39195
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
R-6i	602	08/19/10	WG	pH	7.17	SU	CALA-10-25228

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-6i	602	09/04/14	WG	Specific Conductance	241	µS/cm	CALA-14-86017
R-6i	602	08/12/13	WG	Specific Conductance	243	µS/cm	CALA-13-39195
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	09/04/14	WG	Temperature	17.78	deg C	CALA-14-86017
R-6i	602	08/12/13	WG	Temperature	17.72	deg C	CALA-13-39195
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	09/04/14	WG	Turbidity	1.02	NTU	CALA-14-86017
R-6i	602	08/12/13	WG	Turbidity	0.8	NTU	CALA-13-39195
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-9	683	09/05/14	WG	Dissolved Oxygen	5.69	mg/L	CALA-14-86018
R-9	683	08/06/13	WG	Dissolved Oxygen	5.62	mg/L	CALA-13-39198
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	09/05/14	WG	Flow (in gpm)	10	gpm	CALA-14-86018
R-9	683	03/07/11	WG	Flow (in gpm)	9.8	gpm	CALA-11-5175
R-9	683	03/07/11	WG	Flow (in gpm)	9.8	gpm	CALA-11-5176
R-9	683	07/13/09	WG	Flow (in gpm)	11	gpm	CALA-09-11165
R-9	683	01/08/09	WG	Flow (in gpm)	10	gpm	CALA-09-1764
R-9	683	08/26/08	WG	Flow (in gpm)	9.5	gpm	CALA-08-13913
R-9	683	09/05/14	WG	Oxidation-Reduction Potential	149.3	mV	CALA-14-86018

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-9	683	08/06/13	WG	Oxidation-Reduction Potential	158.9	mV	CALA-13-39198
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	09/05/14	WG	pH	8.1	SU	CALA-14-86018
R-9	683	08/06/13	WG	pH	8.05	SU	CALA-13-39198
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	09/05/14	WG	Specific Conductance	256	µS/cm	CALA-14-86018
R-9	683	08/06/13	WG	Specific Conductance	257	µS/cm	CALA-13-39198
R-9	683	09/06/12	WG	Specific Conductance	254	µS/cm	CALA-12-22897
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	09/05/14	WG	Temperature	22.74	deg C	CALA-14-86018
R-9	683	08/06/13	WG	Temperature	22.73	deg C	CALA-13-39198
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	09/05/14	WG	Turbidity	0.35	NTU	CALA-14-86018
R-9	683	08/06/13	WG	Turbidity	0.4	NTU	CALA-13-39198
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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-9	683	07/13/09	WG	Turbidity	0.43	NTU	CALA-09-11165
TA-53i	600	09/10/14	WG	Dissolved Oxygen	7.44	mg/L	CALA-14-86019
TA-53i	600	08/09/13	WG	Dissolved Oxygen	7.81	mg/L	CALA-13-39201
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	09/10/14	WG	Flow (in gpm)	2.94	gpm	CALA-14-86019
TA-53i	600	03/18/11	WG	Flow (in gpm)	2.75	gpm	CALA-11-5168
TA-53i	600	08/25/10	WG	Flow (in gpm)	2.4	gpm	CALA-10-25207
TA-53i	600	01/07/10	WG	Flow (in gpm)	2.8	gpm	CALA-10-9193
TA-53i	600	11/30/09	WG	Flow (in gpm)	2.8	gpm	CALA-10-6870
TA-53i	600	09/10/14	WG	Oxidation-Reduction Potential	52.7	mV	CALA-14-86019
TA-53i	600	08/09/13	WG	Oxidation-Reduction Potential	45.1	mV	CALA-13-39201
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	09/10/14	WG	pH	7.12	SU	CALA-14-86019
TA-53i	600	08/09/13	WG	pH	6.92	SU	CALA-13-39201
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	09/10/14	WG	Specific Conductance	369	µS/cm	CALA-14-86019
TA-53i	600	08/09/13	WG	Specific Conductance	364	µS/cm	CALA-13-39201
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	09/10/14	WG	Temperature	16	deg C	CALA-14-86019
TA-53i	600	08/09/13	WG	Temperature	15.64	deg C	CALA-13-39201

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	09/10/14	WG	Turbidity	2.5	NTU	CALA-14-86019
TA-53i	600	08/09/13	WG	Turbidity	4.9	NTU	CALA-13-39201
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

[a] WG = Groundwater.

[b] gpm = Gallons per minute.

[c] SU = Standard unit.

[d] 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

Note: A combination of analytical laboratory qualifier codes means that several codes apply.

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.
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or data exception report.
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-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2013-1542	CALA-13-39210	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	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.2	—	—	0.725	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.9	—	—	0.725	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0145	0.00685	0.0409	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00306	0.00531	0.0257	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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
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	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.92	1.19	4.3	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.502	1.86	5.3	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2	—	—	0.067	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.78	—	—	0.067	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.18	1.47	4.27	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.47	1.25	4.65	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.359	—	—	0.033	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.369	—	—	0.033	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	02/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.229	0.674	2.84	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.248	0.623	2.63	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	GELC
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	02/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.0551	0.629	2.25	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.351	0.802	2.99	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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

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-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	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.65	2.45	8.77	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.85	2.54	8.41	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.321	—	—	0.017	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0489	—	—	0.017	mg/L	Y	J	J	2013-1542	CALA-13-39210	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	02/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.298	—	—	0.05	µg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.306	—	—	0.05	µg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00437	0.00535	0.0178	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0196	0.00924	0.0292	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0306	0.00927	0.0414	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0163	0.00864	0.0438	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.3	15.3	60.1	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.9	23.5	41.9	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.9	—	—	0.053	mg/L	Y	—	J-	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.5	—	—	0.053	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.577	1.22	4.05	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.12	1.24	4.21	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	µS/cm	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	138	—	—	1	µS/cm	Y	—	NQ	2013-1542	CALA-13-39210	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

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-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	02/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.15	0.142	0.478	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0561	0.131	0.484	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.26	—	—	0.133	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.06	—	—	0.133	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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
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	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	3.4	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	02/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.388	—	—	0.33	mg/L	Y	J	J	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.587	—	—	0.33	mg/L	Y	J	J	2013-1542	CALA-13-39192	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	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	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	02/03/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	106	46.9	148	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	36.1	51.4	172	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	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	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	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.271	0.0244	0.036	—	pCi/L	Y	—	NQ	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.222	0.0261	0.0634	—	pCi/L	Y	—	J	2013-1542	CALA-13-39192	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	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0174	0.00896	0.019	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00722	0.0102	0.0388	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.105	0.0156	0.0252	—	pCi/L	Y	—	NQ	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.137	0.0209	0.055	—	pCi/L	Y	—	J	2013-1542	CALA-13-39192	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-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2014-2833	CALA-14-54397	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	08/16/13	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	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.23	—	—	0.01	SU	Y	H	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	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	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59	—	—	0.725	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.7	—	—	0.725	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.1	—	—	0.725	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2	—	—	0.725	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00364	0.00446	0.0308	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00573	0.00907	0.0508	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00262	0.00944	0.0464	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0126	0.00837	0.0383	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0128	0.00783	0.0468	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.002	0.0072	0.0362	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	12.6	—	—	1	µg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.9	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.6	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15	—	—	1	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15.5	—	—	1	µg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.9	—	—	1	µg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.43	—	—	0.05	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.58	—	—	0.05	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.68	—	—	0.05	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.64	—	—	0.05	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.27	—	—	0.05	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.17	—	—	0.05	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.43	1.32	4.42	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.89	1.27	5.1	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.27	1.23	5.07	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.594	1.23	4.63	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.21	1.99	6.45	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.411	1.27	4.62	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.42	—	—	0.067	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.44	—	—	0.067	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.44	—	—	0.067	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.38	—	—	0.067	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.43	—	—	0.067	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.38	—	—	0.067	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.34	—	—	2	µg/L	Y	J	J	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.53	—	—	2	µg/L	Y	J	J	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.48	—	—	2	µg/L	Y	J	J	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.65	1.27	4.43	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	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	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.81	1.03	5.04	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.297	0.981	4.08	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.16	1.35	4.51	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.68	1.86	7.42	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.29	1.25	4.75	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.334	—	—	0.033	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.384	—	—	0.033	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.39	—	—	0.033	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.369	—	—	0.033	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.364	—	—	0.033	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.345	—	—	0.033	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.771	0.386	1.26	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.1	0.389	1.39	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.281	0.347	1.18	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.22	1.05	2.78	—	pCi/L	Y	—	NQ	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.95	0.827	2.17	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.05	0.834	2.9	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.01	0.857	2.6	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.752	0.391	1.28	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.47	0.535	1.74	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.98	0.552	1.72	—	pCi/L	Y	—	NQ	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.36	0.77	2.2	—	pCi/L	Y	—	NQ	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.8	1.09	2.95	—	pCi/L	Y	—	NQ	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.6	—	—	0.453	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.4	—	—	0.453	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.6	—	—	0.453	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.5	—	—	0.453	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.3	—	—	0.453	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35	—	—	0.453	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.56	—	—	0.11	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.67	—	—	0.11	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.66	—	—	0.11	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.64	—	—	0.11	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.95	—	—	0.11	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.93	—	—	0.11	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	SVOC	SW-846:8270C	Naphthalene	91-20-3	N	1	—	—	0.3	µg/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	Y	0.8	—	—	0.4	µg/L	Y	J	J	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Naphthalene	91-20-3	N	1.05	—	—	0.316	µg/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.4	µg/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.4	µg/L	Y	UH	U	2013-1672	CALA-13-39177	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	SVOC	SW-846:8270C	Naphthalene	91-20-3	N	1.08	—	—	0.323	µg/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Naphthalene	91-20-3	N	1.05	—	—	0.316	µg/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.4	µg/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Naphthalene	91-20-3	N	1.12	—	—	0.337	µg/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.4	µg/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Naphthalene	91-20-3	N	1	—	—	0.3	µg/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Naphthalene	91-20-3	N	1	—	—	0.4	µg/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.75	2.59	8.38	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	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	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.484	2.57	9.14	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.19	2.5	8.99	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.58	2.68	10.5	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.03	3.25	9.92	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.79	2.53	8.91	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.161	—	—	0.017	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.148	—	—	0.017	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.148	—	—	0.017	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.152	—	—	0.017	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.161	—	—	0.017	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.186	—	—	0.017	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.205	—	—	0.05	µg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.205	—	—	0.05	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.205	—	—	0.05	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.206	—	—	0.05	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.209	—	—	0.05	µg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.214	—	—	0.05	µg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0107	0.00639	0.0173	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0069	0.0069	0.0444	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00729	0.0664	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00456	0.00558	0.0213	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00483	0.0414	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00662	0.00583	0.0248	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.0533	0.0149	0.0404	—	pCi/L	N	—	R	2014-2833	CALA-14-54394	GELC
R-64	1285	02/04/14	WG	UF	RE	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00226	0.00679	0.0665	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00345	0.0134	0.0476	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0103	0.0126	0.0712	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00911	0.0072	0.0449	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0118	0.0555	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00441	0.00764	0.0333	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.17	—	—	0.05	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.28	—	—	0.05	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.18	—	—	0.05	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.23	—	—	0.05	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.21	—	—	0.05	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	28.7	21.6	44.6	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.31	16.7	47.2	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-8.12	16.4	64.4	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.1	16.9	49.7	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.3	20.6	78.2	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.3	16.5	69.1	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.7	—	—	0.053	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.7	—	—	0.053	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.4	—	—	0.053	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	64.3	—	—	0.053	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65	—	—	0.053	mg/L	Y	—	NQ	2013-395	CALA-13-24547	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	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.2	—	—	0.1	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.5	—	—	0.1	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.7	—	—	0.1	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.4	—	—	0.1	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12	—	—	0.1	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.68	0.972	4.12	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.691	1.42	5.29	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.472	1.08	4.11	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.09	1.37	5.64	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.82	1.57	4.97	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0479	0.993	3.96	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	—	—	1	µS/cm	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	120	—	—	1	µS/cm	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	µS/cm	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	1	µS/cm	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.7	—	—	1	µg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.9	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.4	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.1	—	—	1	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.6	—	—	1	µg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.3	—	—	1	µg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.35	0.156	0.508	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.129	0.14	0.473	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.112	0.14	0.475	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0849	0.144	0.488	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0418	0.134	0.487	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0732	0.136	0.491	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.81	—	—	0.133	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.82	—	—	0.133	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.84	—	—	0.133	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.94	—	—	0.133	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.3	—	—	0.133	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.24	—	—	0.133	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	113	—	—	3.4	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	75.7	—	—	3.4	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0574	—	—	0.033	mg/L	Y	J	J	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0767	—	—	0.033	mg/L	Y	J	J	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0432	—	—	0.033	mg/L	Y	J	J+	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	2013-395	CALA-13-24545	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	02/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.414	—	—	0.33	mg/L	Y	J	J	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.507	—	—	0.33	mg/L	Y	J	J	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.56	—	—	0.33	mg/L	Y	J	J	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.574	—	—	0.33	mg/L	Y	J	J	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.528	—	—	0.33	mg/L	Y	J	J	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.468	—	—	0.33	mg/L	Y	J	J	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trimethylbenzene[1,2,4-]	95-63-6	Y	0.41	—	—	0.3	µg/L	Y	J	J	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trimethylbenzene[1,2,4-]	95-63-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	VOC	SW-846:8260B	Trimethylbenzene[1,2,4-]	95-63-6	N	1	—	—	0.3	µg/L	Y	UH	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trimethylbenzene[1,2,4-]	95-63-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trimethylbenzene[1,2,4-]	95-63-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Trimethylbenzene[1,2,4-]	95-63-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.638	0.633	2.085	—	pCi/L	Y	U	U	2014-2831	CALA-14-54394	ARSL
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.524	0.71	2.18	—	pCi/L	Y	U	U	2013-1707	CALA-13-39193	ARSL
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.592	0.712	2.169	—	pCi/L	Y	U	U	2013-1707	CALA-13-39177	ARSL
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.189	0.865	2.566	—	pCi/L	Y	U	U	2013-920	CALA-13-33425	ARSL
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.175	1.281	1.528	—	pCi/L	Y	—	U	2013-548	CALA-13-28684	ARSL
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.007	0.675	2.298	—	pCi/L	Y	U	U	2013-430	CALA-13-24545	ARSL
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1	—	—	0.067	µg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.844	—	—	0.067	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.866	—	—	0.067	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.927	—	—	0.067	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.89	—	—	0.067	µg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.941	—	—	0.067	µg/L	Y	—	NQ	2013-395	CALA-13-24547	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.75	0.0411	0.0401	—	pCi/L	Y	—	NQ	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.721	0.0521	0.076	—	pCi/L	Y	—	J	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.714	0.05	0.067	—	pCi/L	Y	—	NQ	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.699	0.0454	0.0638	—	pCi/L	Y	—	NQ	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.659	0.0402	0.0549	—	pCi/L	Y	—	NQ	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.727	0.0469	0.058	—	pCi/L	Y	—	J	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0249	0.00918	0.0211	—	pCi/L	Y	—	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0222	0.0117	0.0471	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0313	0.0135	0.0415	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0179	0.0108	0.0496	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0235	0.0102	0.0319	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0268	0.0106	0.043	—	pCi/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.309	0.0265	0.0281	—	pCi/L	Y	—	NQ	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.265	0.0313	0.0612	—	pCi/L	Y	—	J	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.332	0.0333	0.0539	—	pCi/L	Y	—	NQ	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.354	0.0328	0.0407	—	pCi/L	Y	—	NQ	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.362	0.0299	0.0297	—	pCi/L	Y	—	NQ	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.287	0.0289	0.0451	—	pCi/L	Y	—	J	2013-395	CALA-13-24545	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.54	—	—	1	µg/L	Y	J	J	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.72	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.08	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.64	—	—	1	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.61	—	—	1	µg/L	Y	J	J	2013-547	CALA-13-28686	GELC
R-64	1285	12/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.71	—	—	1	µg/L	Y	J	J	2013-395	CALA-13-24547	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	02/04/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.31	—	—	0.3	µg/L	Y	J	J	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	2	—	—	0.3	µg/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	2	—	—	0.3	µg/L	Y	UH	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	2	—	—	0.3	µg/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	2	—	—	0.3	µg/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	12/10/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	N	2	—	—	0.3	µg/L	Y	U	U	2013-395	CALA-13-24545	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.93	—	—	0.01	SU	Y	H	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.87	—	—	0.01	SU	Y	H	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.88	—	—	0.01	SU	Y	H	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.5	—	—	0.725	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.5	—	—	0.725	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.1	—	—	0.725	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.4	—	—	0.725	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.9	—	—	0.725	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.8	—	—	0.725	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.8	—	—	0.725	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85	—	—	0.725	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.5	—	—	0.725	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00757	0.00927	0.0639	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0076	0.0642	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0036	0.00624	0.0638	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0115	0.00764	0.035	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00221	0.00662	0.0335	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00505	0.00505	0.037	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00467	0.00572	0.0342	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00929	0.00569	0.042	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00722	0.0462	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.9	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	31.3	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.7	—	—	1	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	31.2	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.1	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	32	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	32.3	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.8	—	—	1	µg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	30	—	—	1	µg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	35	—	—	15	µg/L	Y	J	J	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	35	—	—	15	µg/L	Y	J	J	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	32.3	—	—	15	µg/L	Y	J	J	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	35	—	—	15	µg/L	Y	J	J	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	33.7	—	—	15	µg/L	Y	J	J	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	35.1	—	—	15	µg/L	Y	J	J	2013-553	CALA-13-28687	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	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	34.8	—	—	15	µg/L	Y	J	J	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	38.4	—	—	15	µg/L	Y	J	J	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	38.3	—	—	15	µg/L	Y	J	J	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.5	—	—	0.05	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.8	—	—	0.05	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.1	—	—	0.05	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.5	—	—	0.05	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.4	—	—	0.05	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.465	1.28	4.58	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	3	2.12	5.08	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.34	1.19	4.73	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.745	1.4	4.97	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.43	1.61	5.33	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.57	1.7	5.56	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.78	1.26	4.32	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.363	1.71	6.15	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.39	1.73	6.59	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.5	—	—	0.067	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.47	—	—	0.067	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.73	—	—	0.067	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.52	—	—	0.067	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.54	—	—	0.067	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.35	—	—	0.067	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.34	—	—	0.067	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.23	—	—	0.067	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.25	—	—	0.067	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.33	—	—	2	µg/L	Y	J	J	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.84	—	—	2	µg/L	Y	J	J	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.84	—	—	2	µg/L	Y	J	J	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.27	—	—	2	µg/L	Y	J	J	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.43	—	—	2	µg/L	Y	J	J	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.76	—	—	2	µg/L	Y	J	J	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.71	—	—	2	µg/L	Y	J	J	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.36	—	—	2	µg/L	Y	J	J	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.91	—	—	2	µg/L	Y	J	J	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.364	1.3	4.32	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.71	1.55	5.42	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.347	1.23	4.8	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.33	1.36	4.51	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.309	1.86	7.06	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.256	1.18	4.49	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0763	1.41	5.33	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.536	1.77	6.81	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.17	1.74	5.86	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	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	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.293	—	—	0.033	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.277	—	—	0.033	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.348	—	—	0.033	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.299	—	—	0.033	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.355	—	—	0.033	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.345	—	—	0.033	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.299	—	—	0.033	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.332	—	—	0.033	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.24	0.69	2.73	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.754	0.394	1.96	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.45	0.398	1.45	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.365	0.565	2.36	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.393	0.564	2.21	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.11	0.702	2.08	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	12.9	1.98	2.54	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0707	0.691	2.93	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.41	0.91	2.93	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.297	0.72	2.61	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.65	0.856	2.37	—	pCi/L	Y	—	NQ	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.24	0.399	1.22	—	pCi/L	Y	—	NQ	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.55	0.556	1.76	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3	0.475	1.45	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.49	0.846	2.16	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	4.45	0.934	2.3	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.62	0.929	2.79	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.42	1.01	2.93	—	pCi/L	Y	—	NQ	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.7	—	—	0.453	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.1	—	—	0.453	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.2	—	—	0.453	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.453	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.6	—	—	0.453	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	69.4	—	—	0.453	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.5	—	—	0.453	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.4	—	—	0.453	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.4	—	—	0.453	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.23	—	—	0.11	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.24	—	—	0.11	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.96	—	—	0.11	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.21	—	—	0.11	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.21	—	—	0.11	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.46	—	—	0.11	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.52	—	—	0.11	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.39	—	—	0.11	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.44	—	—	0.11	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.54	—	—	0.165	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.92	—	—	0.165	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	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	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.62	—	—	0.165	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.6	—	—	0.165	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.75	—	—	0.165	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.53	—	—	0.165	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.165	µg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.38	—	—	0.165	µg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.908	2.59	9.22	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.29	2.89	8.85	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.46	3.02	9.14	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.52	2.65	8.92	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	9.13	3.77	11.8	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.64	2.62	9.76	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.264	2.33	8.43	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.257	3.23	11.5	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.02	3.31	11.2	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.782	—	—	0.5	µg/L	Y	J	J	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.771	—	—	0.5	µg/L	Y	J	J	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.22	—	—	0.5	µg/L	Y	J	U	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	N	1.2	—	—	0.5	µg/L	Y	J	U	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.98	—	—	0.5	µg/L	Y	J	J	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.764	—	—	0.5	µg/L	Y	J	J	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.732	—	—	0.5	µg/L	Y	J	J	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.687	—	—	0.5	µg/L	Y	J	J	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.638	—	—	0.017	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.168	—	—	0.017	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.627	—	—	0.017	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.627	—	—	0.017	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.627	—	—	0.017	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.633	—	—	0.017	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.634	—	—	0.017	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.69	—	—	0.085	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.675	—	—	0.085	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.492	—	—	0.05	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.5	—	—	0.05	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.501	—	—	0.05	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.491	—	—	0.05	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.486	—	—	0.05	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.488	—	—	0.05	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.48	—	—	0.05	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.486	—	—	0.05	µg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.498	—	—	0.05	µg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00258	0.00447	0.021	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00616	0.00754	0.025	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00805	0.0111	0.0346	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00617	0.00617	0.0289	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00255	0.0057	0.0238	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00477	0.00584	0.0289	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	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	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00734	0.00647	0.0297	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0027	0.00603	0.0303	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00284	0.00636	0.032	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00774	0.00774	0.0489	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00308	0.0111	0.0583	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0107	0.00929	0.0371	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00308	0.0069	0.0607	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00509	0.00624	0.0502	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00477	0.00584	0.0388	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00245	0.00647	0.0398	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00809	0.00603	0.0407	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0114	0.00697	0.043	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.28	—	—	0.05	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.3	—	—	0.05	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.41	—	—	0.05	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.4	—	—	0.05	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.35	—	—	0.05	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.36	—	—	0.05	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22.1	14.9	53.8	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	18	22.6	40.8	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.3	20.5	55.6	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.3	15.4	60.5	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-20.3	19.3	65.5	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.6	16.9	63.5	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	41.7	19.5	47.2	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-10.6	21.9	85	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-16.7	19	70.6	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.6	—	—	0.053	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78	—	—	0.053	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.6	—	—	0.053	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.9	—	—	0.053	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.5	—	—	0.053	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	82.5	—	—	0.053	mg/L	Y	—	J+	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	83.7	—	—	0.053	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	79.8	—	—	0.053	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80	—	—	0.053	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.2	—	—	0.1	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	13	—	—	0.1	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.1	—	—	0.1	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.4	—	—	0.1	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.5	—	—	0.1	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	2013-390	CALA-13-24542	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	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.73	1.19	4.73	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.94	1.54	4.83	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.22	1.07	3.81	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.43	1.31	5.02	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.48	2.13	8.51	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.19	1.58	5.91	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.24	1.12	3.29	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.761	1.66	6.5	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.49	1.73	6.04	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	1	µS/cm	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	1	µS/cm	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	1	µS/cm	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	193	—	—	1	µS/cm	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	190	—	—	1	µS/cm	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	188	—	—	1	µS/cm	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	188	—	—	1	µS/cm	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	190	—	—	1	µS/cm	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	189	—	—	1	µS/cm	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.1	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.5	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.7	—	—	1	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	75.6	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	75.7	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	81.2	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	81.9	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	78.1	—	—	1	µg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	78	—	—	1	µg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.288	0.116	0.416	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0719	0.0748	0.264	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.064	0.133	0.481	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.143	0.146	0.493	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.138	0.126	0.489	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.081	0.142	0.478	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.095	0.142	0.493	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.295	0.147	0.473	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0175	0.129	0.497	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.34	—	—	0.133	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.33	—	—	0.133	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.59	—	—	0.133	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.47	—	—	0.133	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.48	—	—	0.133	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.5	—	—	0.133	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.49	—	—	0.133	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.4	—	—	0.133	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.42	—	—	0.133	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	157	—	—	3.4	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170	—	—	3.4	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	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	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.094	—	—	0.033	mg/L	Y	J	J	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0555	—	—	0.033	mg/L	Y	J	J	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0461	—	—	0.033	mg/L	Y	J	J	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.512	0.6	1.783	—	pCi/L	Y	U	U	2014-2868	CALA-14-54395	ARSL
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.155	0.542	1.834	—	pCi/L	Y	U	U	2014-2868	CALA-14-54388	ARSL
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.771	0.705	2.096	—	pCi/L	Y	U	U	2013-1707	CALA-13-39194	ARSL
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	3.009	0.931	2.557	—	pCi/L	Y	—	J-	2013-920	CALA-13-33426	ARSL
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.54	0.875	2.93	—	pCi/L	Y	U	U	2013-920	CALA-13-33411	ARSL
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.794	1.4	1.519	—	pCi/L	Y	—	U	2013-548	CALA-13-28685	ARSL
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.895	1.703	2.678	—	pCi/L	Y	U	U	2013-548	CALA-13-28680	ARSL
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.326	0.689	2.314	—	pCi/L	Y	U	U	2013-405	CALA-13-24546	ARSL
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.084	0.702	2.395	—	pCi/L	Y	U	U	2013-405	CALA-13-24541	ARSL
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.693	—	—	0.067	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.689	—	—	0.067	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.694	—	—	0.067	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.611	—	—	0.067	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.624	—	—	0.067	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.792	—	—	0.067	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.778	—	—	0.067	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.702	—	—	0.067	µg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.684	—	—	0.067	µg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.587	0.0346	0.036	—	pCi/L	Y	—	NQ	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0162	0.0101	0.0485	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.478	0.0366	0.0569	—	pCi/L	Y	—	NQ	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.512	0.0374	0.0571	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.527	0.0384	0.0576	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.545	0.0352	0.0452	—	pCi/L	Y	—	J	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.541	0.0366	0.0509	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.512	0.0404	0.0621	—	pCi/L	Y	—	J	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.468	0.0372	0.0553	—	pCi/L	Y	—	NQ	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0124	0.00824	0.0189	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0067	0.0082	0.0255	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0166	0.00996	0.0353	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0225	0.0107	0.0444	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0162	0.0125	0.0448	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0291	0.0103	0.0262	—	pCi/L	Y	—	U	2013-553	CALA-13-28685	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	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00819	0.00819	0.0296	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00717	0.00717	0.0461	—	pCi/L	Y	U	U	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0128	0.00903	0.041	—	pCi/L	Y	U	U	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.189	0.0199	0.0252	—	pCi/L	Y	—	NQ	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0162	0.00766	0.034	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.191	0.0233	0.0458	—	pCi/L	Y	—	NQ	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.0252	0.0365	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.259	0.0263	0.0368	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.229	0.0224	0.0245	—	pCi/L	Y	—	J	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.179	0.0211	0.0276	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28680	GELC
R-66	819.4	12/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.212	0.0261	0.0483	—	pCi/L	Y	—	J	2013-390	CALA-13-24546	GELC
R-66	819.4	12/07/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.191	0.0245	0.043	—	pCi/L	Y	—	NQ	2013-390	CALA-13-24541	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.2	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.5	—	—	1	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.6	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.2	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.4	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.4	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.7	—	—	1	µg/L	Y	—	NQ	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.9	—	—	1	µg/L	Y	—	NQ	2013-390	CALA-13-24542	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.64	—	—	3.3	µg/L	Y	J	J	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.58	—	—	3.3	µg/L	Y	J	J	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	5.03	—	—	3.3	µg/L	Y	J	U	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.82	—	—	3.3	µg/L	Y	J	J	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-553	CALA-13-28681	GELC
R-66	819.4	12/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-390	CALA-13-24548	GELC
R-66	819.4	12/07/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-390	CALA-13-24542	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	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.84	—	—	0.01	SU	Y	H	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.34	—	—	0.01	SU	Y	H	NQ	2013-1668	CALA-13-39203	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
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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	127	—	—	68	SU	Y	J	J	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	110	—	—	68	µg/L	Y	J	U	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	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-846:6010B	Aluminum	Al	Y	173	—	—	68	µg/L	Y	J	J	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0131	0.0146	0.042	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00988	0.00699	0.0207	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	8.75	—	—	1	µg/L	Y	—	NQ	2014-4465	CALA-14-86021	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	6.53	—	—	0.05	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	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	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.354	1.3	4.44	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.83	1.62	5.05	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.21	—	—	0.067	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.22	—	—	0.067	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	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	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.09	1.36	5.45	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.61	1.69	6.86	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0683	—	—	0.033	mg/L	Y	J	J	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.125	—	—	0.033	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	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	09/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	20.2	2.02	2.97	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.38	0.71	1.78	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	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
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	17.2	0.686	1.38	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	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	08/15/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.95	1.24	2.58	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	24	—	—	0.453	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	46.9	—	—	30	µg/L	Y	J	J	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	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-846:6010B	Iron	Fe	Y	77.2	—	—	30	µg/L	Y	J	J	10-4257	CALA-10-25216	GELC
LAOI(a)-1.1	295.2	01/13/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	10-1252	CALA-10-9158	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.86	—	—	0.11	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.36	—	—	0.165	µg/L	Y	—	NQ	2014-4465	CALA-14-86021	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	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.608	2.58	9.17	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.7	2.91	10.4	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	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	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.427	—	—	0.017	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.425	—	—	0.017	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	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	09/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.254	—	—	0.05	µg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.257	—	—	0.05	µg/L	Y	—	NQ	2013-1668	CALA-13-39203	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	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00721	0.00636	0.0329	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0162	0.00786	0.025	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00961	0.00961	0.0404	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0222	0.0124	0.0377	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	6.17	—	—	0.05	mg/L	Y	E	NQ	2014-4465	CALA-14-86021	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

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	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	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	28.8	19.9	44.6	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.7	20.5	62.2	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.7	—	—	0.053	mg/L	Y	—	J-	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.9	—	—	0.053	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.65	—	—	0.1	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	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
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	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.529	1.2	4.76	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.791	1.36	5.57	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	86.9	—	—	3.63	µS/cm	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	97.5	—	—	1	µS/cm	Y	—	NQ	2013-1668	CALA-13-39203	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	37.1	—	—	1	µg/L	Y	—	NQ	2014-4465	CALA-14-86021	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	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	09/02/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.241	0.148	0.49	—	pCi/L	Y	U	U	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0422	0.131	0.477	—	pCi/L	Y	U	U	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.05	—	—	0.133	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.52	—	—	0.133	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	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	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	70	—	—	3.4	mg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	94.3	—	—	3.4	mg/L	Y	—	NQ	2013-1668	CALA-13-39203	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	09/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0365	—	—	0.033	mg/L	Y	J	J	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.154	—	—	0.033	mg/L	Y	—	NQ	2013-1668	CALA-13-39185	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1533	CALA-12-22816	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	03/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.04	—	—	0.033	mg/L	Y	J	J	11-1566	CALA-11-5112	GELC
LAOI(a)-1.1	295.2	08/19/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.05	—	—	0.033	mg/L	Y	J	U	10-4257	CALA-10-25215	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.364	—	—	0.33	mg/L	Y	J	J	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.588	—	—	0.33	mg/L	Y	J	J	2013-1668	CALA-13-39185	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	09/02/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.073	0.678	2.31	—	pCi/L	Y	U	U	2014-4466	CALA-14-86010	ARSL
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.159	0.567	1.754	—	pCi/L	Y	U	U	2013-1707	CALA-13-39185	ARSL
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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.343	—	—	0.067	µg/L	Y	—	NQ	2014-4465	CALA-14-86021	GELC
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	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.07	0.0496	0.0488	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.12	0.0551	0.0579	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	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	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0584	0.0139	0.0358	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0594	0.0162	0.0355	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	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	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	1.14	0.0509	0.0283	—	pCi/L	Y	—	NQ	2014-4465	CALA-14-86010	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	1.21	0.0572	0.0503	—	pCi/L	Y	—	J	2013-1668	CALA-13-39185	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	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	7.05	—	—	3.3	µg/L	Y	J	J	2014-4465	CALA-14-86021	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-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.7	—	—	0.01	SU	Y	H	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.78	—	—	0.01	SU	Y	H	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.81	—	—	0.01	SU	Y	H	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.98	—	—	0.01	SU	Y	H	J-	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.11	—	—	0.01	SU	Y	H	J-	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.7	—	—	0.725	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.7	—	—	0.725	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72	—	—	0.725	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	76.3	—	—	0.73	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.5	—	—	0.73	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00877	0.00969	0.0375	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00289	0.005	0.0242	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00189	0.00422	0.0341	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	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-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00227	0.0039	0.032	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0137	0.0049	0.035	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0626	—	—	0.017	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0306	—	—	0.017	mg/L	Y	J	U	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	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-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.082	—	—	0.016	mg/L	Y	—	J-	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	42.4	—	—	1	µg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	45	—	—	1	µg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	44.2	—	—	1	µg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	42.7	—	—	1	µg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	44.9	—	—	1	µg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.463	—	—	0.067	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.527	—	—	0.067	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.128	—	—	0.067	mg/L	Y	J	J	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.106	—	—	0.066	mg/L	Y	J	J	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.9	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.9	—	—	0.05	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.5	—	—	0.05	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.2	—	—	0.05	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.8	—	—	0.05	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.469	1.48	5.11	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.979	1.37	5.26	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.25	1.68	5.84	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.55	1.7	4.5	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.45	1.9	6.9	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	31.1	—	—	0.335	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	28.6	—	—	0.335	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	23.5	—	—	0.67	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.2	—	—	0.066	mg/L	Y	—	J+	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	14.2	—	—	0.066	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.915	1.34	5.1	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.36	1.42	5.72	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.69	1.93	6.62	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.908	1.4	4.2	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.583	1.4	4.8	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloropropene[trans-1,3-]	10061-02-6	Y	0.36	—	—	0.3	µg/L	Y	J	J	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloropropene[trans-1,3-]	10061-02-6	N	1	—	—	0.25	µg/L	Y	U	U	11-1724	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloropropene[trans-1,3-]	10061-02-6	N	1	—	—	0.25	µg/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	01/08/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloropropene[trans-1,3-]	10061-02-6	N	1	—	—	0.25	µg/L	Y	U	U	10-1184	CALA-10-9174	GELC
LAOI-3.2	153.3	07/08/09	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloropropene[trans-1,3-]	10061-02-6	N	1	—	—	0.25	µg/L	Y	U	U	09-2581	CALA-09-11149	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0475	—	—	0.033	mg/L	Y	J	J	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0935	—	—	0.033	mg/L	Y	J	J	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.11	—	—	0.033	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.133	—	—	0.033	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.138	—	—	0.033	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.772	0.373	2.93	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.488	0.799	2.8	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.789	0.675	2.34	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.177	0.47	2.1	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	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-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.443	0.67	2.7	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.36	0.656	1.88	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.15	1.06	2.7	—	pCi/L	Y	—	NQ	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.89	0.972	2.31	—	pCi/L	Y	—	J	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.79	1.1	2.4	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.7	1.3	2.4	—	pCi/L	Y	—	NQ	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.7	—	—	0.453	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.5	—	—	0.453	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.9	—	—	0.453	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.8	—	—	0.45	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64	—	—	0.35	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.78	—	—	0.11	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.76	—	—	0.11	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.6	—	—	0.11	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.09	—	—	0.11	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.72	—	—	0.085	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.771	—	—	0.165	µg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.537	—	—	0.165	µg/L	Y	—	U	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.443	—	—	0.165	µg/L	Y	J	J	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.659	—	—	0.17	µg/L	Y	—	U	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.486	—	—	0.1	µg/L	Y	J	J	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.58	2.98	10.8	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.69	2.62	9.63	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.62	3.21	10.1	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.63	2.9	9.8	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.49	2.1	7.3	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.99	—	—	0.085	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.53	—	—	0.17	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.48	—	—	0.085	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.9	—	—	0.05	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.12	—	—	0.05	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.71	—	—	0.5	µg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.96	—	—	0.5	µg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	7.63	—	—	0.5	µg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.32	—	—	0.5	µg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.61	—	—	0.5	µg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00227	0.006	0.0311	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00286	0.00495	0.0256	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00769	0.00544	0.0216	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00364	0.0036	0.023	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0031	0.019	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	1.13E-09	0.00641	0.0381	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00286	0.00756	0.0383	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00385	0.00608	0.0291	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00727	0.0041	0.034	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00647	0.0048	0.031	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	7.62	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.73	—	—	0.05	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.15	—	—	0.05	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.04	—	—	0.05	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.64	—	—	0.05	mg/L	Y	—	NQ	10-4312	CALA-10-25219	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-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-14.1	16.7	66.3	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.4	19.4	72.4	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.4	20	72.8	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	2.91	20	76	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	6.28	15	56	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.8	—	—	0.053	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.4	—	—	0.053	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.3	—	—	0.053	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.1	—	—	0.053	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.6	—	—	0.053	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	17.8	—	—	0.1	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.3	—	—	0.1	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.9	—	—	0.1	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.6	—	—	0.1	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.9	—	—	0.1	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.15	1.17	4.83	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.42	1.6	5.36	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.74	1.57	6.61	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.45	1.3	5.4	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.884	1.4	4.8	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	3.63	µS/cm	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	286	—	—	1	µS/cm	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	277	—	—	1	µS/cm	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	238	—	—	1	µS/cm	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	229	—	—	1	µS/cm	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	118	—	—	1	µg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	119	—	—	1	µg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	121	—	—	1	µg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	101	—	—	1	µg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	98.1	—	—	1	µg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0255	0.135	0.479	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.225	0.145	0.484	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.158	0.143	0.484	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0536	0.14	0.49	—	pCi/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0965	0.14	0.49	—	pCi/L	Y	U	U	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.41	—	—	0.133	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.01	—	—	0.133	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.67	—	—	0.133	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.12	—	—	0.1	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.66	—	—	0.1	mg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	270	—	—	3.4	mg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	230	—	—	3.4	mg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	219	—	—	3.4	mg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	202	—	—	2.4	mg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	211	—	—	2.4	mg/L	Y	—	J	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.829	—	—	0.33	mg/L	Y	J	J	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.12	—	—	0.33	mg/L	Y	—	NQ	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.704	—	—	0.33	mg/L	Y	J	J	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.78	—	—	0.33	mg/L	Y	J	J	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.692	—	—	0.33	mg/L	Y	J	J	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2090	109	151	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86011	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-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1820	81.5	193	—	pCi/L	Y	—	NQ	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1870	87.7	121	—	pCi/L	Y	—	NQ	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1210	140	190	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1330	150	120	—	pCi/L	Y	—	NQ	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.29	—	—	0.067	µg/L	Y	—	NQ	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.41	—	—	0.067	µg/L	Y	—	NQ	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.26	—	—	0.067	µg/L	Y	—	NQ	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.38	—	—	0.067	µg/L	Y	—	NQ	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.21	—	—	0.05	µg/L	Y	—	NQ	10-4312	CALA-10-25219	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.495	0.032	0.0432	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.454	0.0321	0.0463	—	pCi/L	Y	—	J	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.408	0.0385	0.0704	—	pCi/L	Y	—	J	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.544	0.049	0.038	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.488	0.045	0.05	—	pCi/L	Y	—	NQ	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0246	0.0092	0.0317	—	pCi/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0237	0.00874	0.0283	—	pCi/L	Y	U	U	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00407	0.0108	0.0523	—	pCi/L	Y	U	U	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0529	0.011	0.024	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.03	0.0083	0.024	—	pCi/L	Y	—	NQ	10-4312	CALA-10-25220	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.416	0.0297	0.0251	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.369	0.0284	0.0402	—	pCi/L	Y	—	J	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.359	0.0353	0.0548	—	pCi/L	Y	—	J	2013-436	CALA-13-24752	GELC
LAOI-3.2	153.3	03/22/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.406	0.039	0.026	—	pCi/L	Y	—	NQ	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.414	0.039	0.03	—	pCi/L	Y	—	NQ	10-4312	CALA-10-25220	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.76	—	—	0.01	SU	Y	H	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.32	—	—	0.01	SU	Y	H	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	74.4	—	—	0.725	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.6	—	—	0.725	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0052	0.0104	0.0333	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0043	0.00609	0.018	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	18.9	—	—	1	µg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.7	—	—	1	µg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.64	—	—	0.067	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.552	—	—	0.067	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.7	—	—	0.05	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25.6	—	—	0.05	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.91	1.8	6.07	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.66	1.81	5.76	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	22.8	—	—	0.335	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	22.8	—	—	0.335	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.34	—	—	0.3	µg/L	Y	J	J	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	09/13/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	N	1	—	—	0.3	µg/L	Y	U	U	12-1555	CALA-12-22818	GELC
LAOI-3.2a	181.4	03/22/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.39	—	—	0.25	µg/L	Y	J	J	11-1724	CALA-11-5159	GELC
LAOI-3.2a	181.4	08/20/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.47	—	—	0.25	µg/L	Y	J	J	10-4278	CALA-10-25221	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.398	—	—	0.25	µg/L	Y	J	J	10-1184	CALA-10-9171	GELC
LAOI-3.2a	181.4	01/08/10	WG	UF	INIT	FD	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.352	—	—	0.25	µg/L	Y	J	J	10-1184	CALA-10-9169	GELC
LAOI-3.2a	181.4	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.279	1.55	5.85	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.63	1.63	5.64	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0463	—	—	0.033	mg/L	Y	J	J	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0896	—	—	0.033	mg/L	Y	J	J	2013-1655	CALA-13-39205	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.12	0.941	2.88	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.15	0.42	1.19	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	GELC
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	09/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	15	0.645	1.49	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.93	0.596	1.52	—	pCi/L	Y	—	NQ	2013-1655	CALA-13-39187	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	09/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.2	—	—	0.453	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86	—	—	0.453	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.08	—	—	0.11	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.38	—	—	0.11	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.15	—	—	0.165	µg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.31	—	—	0.165	µg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.67	3.57	12	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.09	3.99	13.4	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.75	—	—	0.085	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.63	—	—	0.085	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.37	—	—	0.2	µg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.33	—	—	0.25	µg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0178	0.00841	0.0407	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00397	0.00486	0.0178	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00594	0.0084	0.05	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00397	0.00397	0.0266	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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
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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	9.94	—	—	0.05	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.3	—	—	0.05	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	43.6	20.4	54.8	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-27.8	20.8	69.8	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.2	—	—	0.053	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.03	1.72	6.81	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.526	2.19	7.27	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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

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	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	255	—	—	3.63	µS/cm	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	267	—	—	1	µS/cm	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	152	—	—	1	µg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	158	—	—	1	µg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.175	0.131	0.486	—	pCi/L	Y	U	U	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0353	0.139	0.477	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.6	—	—	0.133	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.7	—	—	0.133	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	171	—	—	3.4	mg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	190	—	—	3.4	mg/L	Y	—	NQ	2013-1655	CALA-13-39205	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
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	09/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.926	—	—	0.33	mg/L	Y	J	J	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.11	—	—	0.33	mg/L	Y	—	NQ	2013-1655	CALA-13-39187	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1280	90.1	154	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1280	74.6	191	—	pCi/L	Y	—	NQ	2013-1655	CALA-13-39187	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.49	—	—	0.067	µg/L	Y	—	NQ	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.1	—	—	0.067	µg/L	Y	—	NQ	2013-1655	CALA-13-39205	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.734	0.0417	0.0498	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.619	0.0399	0.0537	—	pCi/L	Y	—	NQ	2013-1655	CALA-13-39187	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0482	0.0136	0.0365	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0214	0.011	0.0329	—	pCi/L	Y	U	U	2013-1655	CALA-13-39187	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

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	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.649	0.0387	0.0289	—	pCi/L	Y	—	NQ	2014-4487	CALA-14-86012	GELC
LAOI-3.2a	181.4	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.497	0.0361	0.0466	—	pCi/L	Y	—	NQ	2013-1655	CALA-13-39187	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-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.77	—	—	0.01	SU	Y	H	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.62	—	—	0.01	SU	Y	H	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	49.8	—	—	0.725	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.7	—	—	0.725	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00917	0.0112	0.0581	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0105	0.00984	0.022	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.7	—	—	1	µg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.3	—	—	1	µg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	Y	14.2	—	—	5.22	µg/L	Y	J	J	2014-4539	CALA-14-86013	GELC
LAOI-7	240	09/11/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	22	—	—	6.59	µg/L	Y	U	UJ	12-1550	CALA-12-22894	GELC
LAOI-7	240	03/10/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	22.2	—	—	6.7	µg/L	Y	U	UJ	11-1604	CALA-11-5160	GELC
LAOI-7	240	08/26/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	24.4	—	—	7.3	µg/L	Y	U	UJ	10-4364	CALA-10-25225	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	21.7	—	—	6.5	µg/L	Y	U	U	10-1275	CALA-10-9165	GELC
LAOI-7	240	01/14/10	WG	UF	INIT	FD	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	21.3	—	—	6.4	µg/L	Y	U	U	10-1275	CALA-10-9168	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0929	—	—	0.067	mg/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.122	—	—	0.067	mg/L	Y	J	J	2013-1580	CALA-13-39206	GELC
LAOI-7	240	09/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1550	CALA-12-22900	GELC
LAOI-7	240	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.135	—	—	0.066	mg/L	Y	J	J	11-1604	CALA-11-5162	GELC
LAOI-7	240	08/26/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.164	—	—	0.066	mg/L	Y	J	J	10-4364	CALA-10-25226	GELC
LAOI-7	240	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.9	—	—	0.05	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.5	—	—	0.05	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.5	1.86	6.92	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.28	1.54	5.2	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	20.1	—	—	0.335	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	22.1	—	—	0.335	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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

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	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.24	—	—	2	µg/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.37	1.4	5.71	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.44	1.54	5.85	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.135	—	—	0.033	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.195	—	—	0.033	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.91	1.06	2.86	—	pCi/L	Y	—	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.519	0.655	2.9	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	09/11/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.3	0.412	1.12	—	pCi/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.16	1.02	2.9	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.7	—	—	0.453	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.3	—	—	0.453	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.82	—	—	0.11	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.46	—	—	0.11	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	6.06	—	—	2	µg/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.868	—	—	0.165	µg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.06	—	—	0.165	µg/L	Y	—	U	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.41	4.44	10.3	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0427	3.28	10.9	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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

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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	21.2	—	—	0.5	µg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.38	—	—	0.5	µg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.282	—	—	0.017	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.532	—	—	0.017	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.762	—	—	0.05	µg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.856	—	—	0.05	µg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0172	0.00812	0.0394	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00517	0.00895	0.0462	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0316	0.0111	0.0483	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0103	0.0693	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.11	—	—	0.05	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.42	—	—	0.05	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	GELC
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	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.1	17.2	65.2	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.65	17.9	73.9	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	56.7	—	—	0.053	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.2	—	—	0.053	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.4	—	—	0.1	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.23	1.37	5.06	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.584	1.51	5.89	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	3.63	µS/cm	Y	—	NQ	2014-4539	CALA-14-86024	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	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	205	—	—	1	µS/cm	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	84.1	—	—	1	µg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	94.3	—	—	1	µg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.199	0.128	0.48	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0841	0.134	0.466	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.4	—	—	0.133	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11	—	—	0.133	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1	—	—	0.33	mg/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.06	—	—	0.33	mg/L	Y	—	NQ	2013-1580	CALA-13-39188	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
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	09/11/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0235	—	—	0.017	mg/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0226	—	—	0.017	mg/L	Y	J	J	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	670	60.3	162	—	pCi/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	605	63.6	185	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.63	—	—	0.067	µg/L	Y	—	NQ	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.767	—	—	0.067	µg/L	Y	—	NQ	2013-1580	CALA-13-39206	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	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.23	0.0247	0.0554	—	pCi/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.249	0.0272	0.0582	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39188	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	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0158	0.00834	0.0406	—	pCi/L	Y	U	U	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0133	0.00938	0.0357	—	pCi/L	Y	U	U	2013-1580	CALA-13-39188	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	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	09/11/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.202	0.023	0.0321	—	pCi/L	Y	—	NQ	2014-4539	CALA-14-86013	GELC
LAOI-7	240	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.225	0.0252	0.0505	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39188	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.51	—	—	1	µg/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.65	—	—	1	µg/L	Y	J	J	2013-1580	CALA-13-39206	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	09/11/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.36	—	—	3.3	µg/L	Y	J	J	2014-4539	CALA-14-86024	GELC
LAOI-7	240	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.47	—	—	3.3	µg/L	Y	J	J	2013-1580	CALA-13-39206	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
R-6	1205	09/12/14	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	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.1	—	—	0.725	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.2	—	—	0.725	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.9	—	—	0.725	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00434	0.013	0.0549	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0145	0.00685	0.0409	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00306	0.00531	0.0257	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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
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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16.8	—	—	1	µg/L	Y	—	NQ	2014-4547	CALA-14-86025	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.4	—	—	15	µg/L	Y	J	J	2014-4547	CALA-14-86025	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.8	—	—	0.05	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	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	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.22	1.4	4.45	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.92	1.19	4.3	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.502	1.86	5.3	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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: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	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2	—	—	0.067	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.78	—	—	0.067	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.08	—	—	2	µg/L	Y	J	J	2014-4547	CALA-14-86025	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	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.1	1.36	5.12	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.18	1.47	4.27	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.47	1.25	4.65	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	14.4	—	—	2.83	µg/L	N	—	R	2014-4547	CALA-14-86014	GELC
R-6	1205	09/12/14	WG	UF	RE	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	N	8.13	—	—	2.44	µg/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	08/27/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	10.5	—	—	3.16	µg/L	Y	U	U	12-1518	CALA-12-22819	GELC
R-6	1205	01/08/10	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	11.8	—	—	2.4	µg/L	Y	U	U	10-1187	CALA-10-9179	GELC
R-6	1205	01/08/10	WG	UF	INIT	FD	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	11.8	—	—	2.4	µg/L	Y	U	U	10-1187	CALA-10-9182	GELC
R-6	1205	08/27/08	WG	UF	INIT	REG	VOC	SW-846:8260B	Dioxane[1,4-]	123-91-1	N	50	—	—	20	µg/L	Y	U	R	08-1796	CALA-08-13902	GELC
R-6	1205	07/17/07	WG	UF	INIT	REG	VOC	SW-846:8260B	Dioxane[1,4-]	123-91-1	N	50	—	—	20	µg/L	Y	U	R	189841	GU070700G06R01	GELC
R-6	1205	07/17/07	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	11.1	—	—	1.11	µg/L	Y	U	U	189841	GU070700G06R01	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.367	—	—	0.033	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.359	—	—	0.033	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.369	—	—	0.033	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1	0.556	2.88	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.229	0.674	2.84	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.248	0.623	2.63	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	GELC
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	09/12/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.7	0.772	2.41	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.0551	0.629	2.25	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.351	0.802	2.99	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.4	—	—	0.453	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.84	—	—	0.11	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.64	—	—	0.165	µg/L	Y	—	NQ	2014-4547	CALA-14-86025	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	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	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.977	2.77	9.79	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.65	2.45	8.77	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.85	2.54	8.41	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.51	—	—	0.5	µg/L	Y	J	J	2014-4547	CALA-14-86025	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	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.265	—	—	0.017	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.321	—	—	0.017	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0489	—	—	0.017	mg/L	Y	J	J	2013-1542	CALA-13-39210	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	09/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.294	—	—	0.05	µg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.298	—	—	0.05	µg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.306	—	—	0.05	µg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00738	0.0413	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00437	0.00535	0.0178	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0196	0.00924	0.0292	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0331	0.0124	0.0507	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0306	0.00927	0.0414	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0163	0.00864	0.0438	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	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	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	31.8	23.2	47.5	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.3	15.3	60.1	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.9	23.5	41.9	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.1	—	—	0.053	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.9	—	—	0.053	mg/L	Y	—	J-	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.5	—	—	0.053	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.76	—	—	0.1	mg/L	Y	E	NQ	2014-4547	CALA-14-86025	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

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	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	09/12/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.709	1.27	5.01	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.577	1.22	4.05	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.12	1.24	4.21	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	134	—	—	3.63	µS/cm	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	µS/cm	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	138	—	—	1	µS/cm	Y	—	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	51.5	—	—	1	µg/L	Y	—	NQ	2014-4547	CALA-14-86025	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	09/12/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.297	0.119	0.48	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.15	0.142	0.478	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0561	0.131	0.484	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.11	—	—	0.133	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.26	—	—	0.133	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.06	—	—	0.133	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	3.4	mg/L	Y	—	NQ	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	2013-1542	CALA-13-39210	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	09/12/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	82.6	51.5	170	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	106	46.9	148	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	36.1	51.4	172	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.368	—	—	0.067	µg/L	Y	—	NQ	2014-4547	CALA-14-86025	GELC
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	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.267	0.0284	0.0605	—	pCi/L	Y	—	NQ	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.271	0.0244	0.036	—	pCi/L	Y	—	NQ	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.222	0.0261	0.0634	—	pCi/L	Y	—	J	2013-1542	CALA-13-39192	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	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00344	0.00596	0.0444	—	pCi/L	Y	U	U	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0174	0.00896	0.019	—	pCi/L	Y	U	U	2014-2823	CALA-14-54393	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	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00722	0.0102	0.0388	—	pCi/L	Y	U	U	2013-1542	CALA-13-39192	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	09/12/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.0183	0.0351	—	pCi/L	Y	—	NQ	2014-4547	CALA-14-86014	GELC
R-6	1205	02/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.105	0.0156	0.0252	—	pCi/L	Y	—	NQ	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.137	0.0209	0.055	—	pCi/L	Y	—	J	2013-1542	CALA-13-39192	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	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.58	—	—	1	µg/L	Y	—	NQ	2014-4547	CALA-14-86025	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-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	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	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.23	—	—	0.01	SU	Y	H	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	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	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.9	—	—	0.725	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59	—	—	0.725	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.7	—	—	0.725	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.1	—	—	0.725	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.017	0.0102	0.0436	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00364	0.00446	0.0308	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00573	0.00907	0.0508	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00262	0.00944	0.0464	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0126	0.00837	0.0383	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0128	0.00783	0.0468	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13	—	—	1	µg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	12.6	—	—	1	µg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.9	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	13.6	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15	—	—	1	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15.5	—	—	1	µg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.38	—	—	0.05	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.43	—	—	0.05	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.58	—	—	0.05	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.68	—	—	0.05	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.64	—	—	0.05	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.27	—	—	0.05	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.11	1.72	6.35	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.43	1.32	4.42	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.89	1.27	5.1	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.27	1.23	5.07	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.594	1.23	4.63	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.21	1.99	6.45	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.38	—	—	0.067	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.42	—	—	0.067	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	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-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.44	—	—	0.067	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.44	—	—	0.067	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.38	—	—	0.067	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.43	—	—	0.067	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.5	1.78	4.73	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.65	1.27	4.43	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.81	1.03	5.04	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.297	0.981	4.08	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.16	1.35	4.51	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.68	1.86	7.42	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.283	—	—	0.033	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.334	—	—	0.033	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.384	—	—	0.033	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.39	—	—	0.033	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.369	—	—	0.033	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.364	—	—	0.033	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.34	0.729	2.98	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.771	0.386	1.26	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.1	0.389	1.39	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.281	0.347	1.18	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.22	1.05	2.78	—	pCi/L	Y	—	NQ	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.95	0.827	2.17	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.205	0.36	1.21	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.01	0.857	2.6	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.752	0.391	1.28	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.47	0.535	1.74	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.98	0.552	1.72	—	pCi/L	Y	—	NQ	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.36	0.77	2.2	—	pCi/L	Y	—	NQ	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.5	—	—	0.453	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.6	—	—	0.453	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.4	—	—	0.453	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.6	—	—	0.453	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.5	—	—	0.453	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.3	—	—	0.453	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.69	—	—	0.11	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.56	—	—	0.11	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.67	—	—	0.11	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.66	—	—	0.11	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.64	—	—	0.11	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.95	—	—	0.11	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.571	—	—	0.165	µg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.755	—	—	0.165	µg/L	Y	—	U	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.879	—	—	0.165	µg/L	Y	—	U	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.875	—	—	0.165	µg/L	Y	—	U	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.992	—	—	0.165	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.15	—	—	0.165	µg/L	Y	—	U	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0803	3.47	12.2	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.75	2.59	8.38	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.484	2.57	9.14	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.19	2.5	8.99	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.58	2.68	10.5	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	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-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.03	3.25	9.92	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.225	—	—	0.017	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.161	—	—	0.017	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.148	—	—	0.017	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.148	—	—	0.017	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.152	—	—	0.017	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.161	—	—	0.017	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.21	—	—	0.05	µg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.205	—	—	0.05	µg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.205	—	—	0.05	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.205	—	—	0.05	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.206	—	—	0.05	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.209	—	—	0.05	µg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00265	0.007	0.0363	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0107	0.00639	0.0173	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0069	0.0069	0.0444	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00729	0.0664	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00456	0.00558	0.0213	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00483	0.0414	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	8.82E-10	0.00648	0.0445	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.0533	0.0149	0.0404	—	pCi/L	N	—	R	2014-2833	CALA-14-54394	GELC
R-64	1285	02/04/14	WG	UF	RE	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00226	0.00679	0.0665	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00345	0.0134	0.0476	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0103	0.0126	0.0712	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00911	0.0072	0.0449	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0118	0.0555	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.25	—	—	0.05	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.13	—	—	0.05	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.17	—	—	0.05	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.28	—	—	0.05	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.18	—	—	0.05	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.23	—	—	0.05	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.5	17.1	60.5	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	28.7	21.6	44.6	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.31	16.7	47.2	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-8.12	16.4	64.4	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.1	16.9	49.7	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.3	20.6	78.2	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	67	—	—	0.053	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.7	—	—	0.053	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.7	—	—	0.053	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.4	—	—	0.053	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	64.3	—	—	0.053	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.7	—	—	0.1	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.2	—	—	0.1	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.5	—	—	0.1	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.7	—	—	0.1	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.4	—	—	0.1	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.938	1.45	6.04	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	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-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.68	0.972	4.12	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.691	1.42	5.29	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.472	1.08	4.11	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.09	1.37	5.64	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.82	1.57	4.97	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	110	—	—	3.63	µS/cm	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	—	—	1	µS/cm	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	120	—	—	1	µS/cm	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	µS/cm	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	µS/cm	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.1	—	—	1	µg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.7	—	—	1	µg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.9	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.4	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.1	—	—	1	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.6	—	—	1	µg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.193	0.124	0.487	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.35	0.156	0.508	—	pCi/L	Y	U	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.129	0.14	0.473	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.112	0.14	0.475	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0849	0.144	0.488	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0418	0.134	0.487	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.63	—	—	0.133	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.81	—	—	0.133	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.82	—	—	0.133	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.84	—	—	0.133	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.94	—	—	0.133	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.3	—	—	0.133	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	78.6	—	—	3.4	mg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	113	—	—	3.4	mg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	75.7	—	—	3.4	mg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.436	—	—	0.33	mg/L	Y	J	J	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.414	—	—	0.33	mg/L	Y	J	J	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.507	—	—	0.33	mg/L	Y	J	J	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.56	—	—	0.33	mg/L	Y	J	J	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.574	—	—	0.33	mg/L	Y	J	J	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.528	—	—	0.33	mg/L	Y	J	J	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.564	0.725	2.444	—	pCi/L	Y	U	U	2014-4466	CALA-14-86015	ARSL
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.638	0.633	2.085	—	pCi/L	Y	U	U	2014-2831	CALA-14-54394	ARSL
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.524	0.71	2.18	—	pCi/L	Y	U	U	2013-1707	CALA-13-39193	ARSL
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.592	0.712	2.169	—	pCi/L	Y	U	U	2013-1707	CALA-13-39177	ARSL
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.189	0.865	2.566	—	pCi/L	Y	U	U	2013-920	CALA-13-33425	ARSL
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.175	1.281	1.528	—	pCi/L	Y	—	U	2013-548	CALA-13-28684	ARSL
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.858	—	—	0.067	µg/L	Y	—	NQ	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1	—	—	0.067	µg/L	Y	—	NQ	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.844	—	—	0.067	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.866	—	—	0.067	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	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-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.927	—	—	0.067	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.89	—	—	0.067	µg/L	Y	—	NQ	2013-547	CALA-13-28686	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.667	0.0457	0.0661	—	pCi/L	Y	—	NQ	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.75	0.0411	0.0401	—	pCi/L	Y	—	NQ	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.721	0.0521	0.076	—	pCi/L	Y	—	J	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.714	0.05	0.067	—	pCi/L	Y	—	NQ	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.699	0.0454	0.0638	—	pCi/L	Y	—	NQ	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.659	0.0402	0.0549	—	pCi/L	Y	—	NQ	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00377	0.00652	0.0485	—	pCi/L	Y	U	U	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0249	0.00918	0.0211	—	pCi/L	Y	—	U	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0222	0.0117	0.0471	—	pCi/L	Y	U	U	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0313	0.0135	0.0415	—	pCi/L	Y	U	U	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0179	0.0108	0.0496	—	pCi/L	Y	U	U	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0235	0.0102	0.0319	—	pCi/L	Y	U	U	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.335	0.0328	0.0384	—	pCi/L	Y	—	NQ	2014-4464	CALA-14-86015	GELC
R-64	1285	02/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.309	0.0265	0.0281	—	pCi/L	Y	—	NQ	2014-2833	CALA-14-54394	GELC
R-64	1285	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.265	0.0313	0.0612	—	pCi/L	Y	—	J	2013-1672	CALA-13-39193	GELC
R-64	1285	08/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.332	0.0333	0.0539	—	pCi/L	Y	—	NQ	2013-1672	CALA-13-39177	GELC
R-64	1285	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.354	0.0328	0.0407	—	pCi/L	Y	—	NQ	2013-913	CALA-13-33425	GELC
R-64	1285	02/19/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.362	0.0299	0.0297	—	pCi/L	Y	—	NQ	2013-547	CALA-13-28684	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.5	—	—	1	µg/L	Y	J	J	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.54	—	—	1	µg/L	Y	J	J	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.72	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.08	—	—	1	µg/L	Y	—	NQ	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.64	—	—	1	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	02/19/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.61	—	—	1	µg/L	Y	J	J	2013-547	CALA-13-28686	GELC
R-66	819.4	09/03/14	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	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.75	—	—	0.01	SU	Y	H	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.93	—	—	0.01	SU	Y	H	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.87	—	—	0.01	SU	Y	H	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.88	—	—	0.01	SU	Y	H	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.6	—	—	0.725	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.1	—	—	0.725	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.5	—	—	0.725	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.5	—	—	0.725	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.1	—	—	0.725	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.4	—	—	0.725	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.9	—	—	0.725	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.8	—	—	0.725	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.8	—	—	0.725	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00759	0.0104	0.0325	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00795	0.00592	0.034	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00757	0.00927	0.0639	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0076	0.0642	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0036	0.00624	0.0638	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0115	0.00764	0.035	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00221	0.00662	0.0335	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	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	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00505	0.00505	0.037	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00467	0.00572	0.0342	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0724	—	—	0.017	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0278	—	—	0.017	mg/L	Y	J	J	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0486	—	—	0.017	mg/L	Y	J	J	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0209	—	—	0.017	mg/L	Y	J	J	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.135	—	—	0.017	mg/L	Y	—	U	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.111	—	—	0.017	mg/L	Y	—	U	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.9	—	—	1	µg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.8	—	—	1	µg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.9	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	31.3	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.7	—	—	1	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	31.2	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.1	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	32	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	32.3	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	35.5	—	—	15	µg/L	Y	J	J	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	36	—	—	15	µg/L	Y	J	J	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	35	—	—	15	µg/L	Y	J	J	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	35	—	—	15	µg/L	Y	J	J	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	32.3	—	—	15	µg/L	Y	J	J	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	35	—	—	15	µg/L	Y	J	J	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	33.7	—	—	15	µg/L	Y	J	J	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	35.1	—	—	15	µg/L	Y	J	J	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	34.8	—	—	15	µg/L	Y	J	J	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.4	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.5	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.5	—	—	0.05	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.8	—	—	0.05	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.1	—	—	0.05	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.77	1.63	6.02	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0156	1.58	5.67	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.465	1.28	4.58	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	3	2.12	5.08	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.34	1.19	4.73	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.745	1.4	4.97	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.43	1.61	5.33	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.57	1.7	5.56	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.78	1.26	4.32	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.61	—	—	0.067	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.62	—	—	0.067	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.5	—	—	0.067	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.47	—	—	0.067	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	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	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.73	—	—	0.067	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.52	—	—	0.067	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.54	—	—	0.067	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.35	—	—	0.067	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.34	—	—	0.067	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0482	1.42	5.53	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.956	1.47	5.99	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.364	1.3	4.32	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.71	1.55	5.42	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.347	1.23	4.8	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.33	1.36	4.51	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.309	1.86	7.06	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.256	1.18	4.49	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0763	1.41	5.33	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.258	—	—	0.033	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.243	—	—	0.033	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.293	—	—	0.033	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.277	—	—	0.033	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.348	—	—	0.033	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.299	—	—	0.033	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.355	—	—	0.033	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.345	—	—	0.033	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.428	0.619	2.93	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.14	0.953	2.83	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.24	0.69	2.73	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.754	0.394	1.96	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.45	0.398	1.45	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.365	0.565	2.36	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.393	0.564	2.21	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.11	0.702	2.08	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	12.9	1.98	2.54	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.41	0.601	1.91	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.185	0.38	1.28	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.297	0.72	2.61	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.65	0.856	2.37	—	pCi/L	Y	—	NQ	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.24	0.399	1.22	—	pCi/L	Y	—	NQ	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.55	0.556	1.76	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3	0.475	1.45	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.49	0.846	2.16	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	4.45	0.934	2.3	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68	—	—	0.453	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.1	—	—	0.453	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.7	—	—	0.453	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.1	—	—	0.453	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.2	—	—	0.453	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.453	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.6	—	—	0.453	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	69.4	—	—	0.453	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.5	—	—	0.453	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.33	—	—	0.11	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	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	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.33	—	—	0.11	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.23	—	—	0.11	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.24	—	—	0.11	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.96	—	—	0.11	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.21	—	—	0.11	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.21	—	—	0.11	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.46	—	—	0.11	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.52	—	—	0.11	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.58	—	—	0.165	µg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.5	—	—	0.165	µg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.54	—	—	0.165	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.92	—	—	0.165	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.62	—	—	0.165	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.6	—	—	0.165	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.75	—	—	0.165	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.53	—	—	0.165	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.14	2.95	10.9	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.192	3.08	10.7	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.908	2.59	9.22	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.29	2.89	8.85	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.46	3.02	9.14	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.52	2.65	8.92	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	9.13	3.77	11.8	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.64	2.62	9.76	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.264	2.33	8.43	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.723	—	—	0.017	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.688	—	—	0.017	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.638	—	—	0.017	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.168	—	—	0.017	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.627	—	—	0.017	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.627	—	—	0.017	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.627	—	—	0.017	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.633	—	—	0.017	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.634	—	—	0.017	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.507	—	—	0.05	µg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.469	—	—	0.05	µg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.492	—	—	0.05	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.5	—	—	0.05	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.501	—	—	0.05	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.491	—	—	0.05	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.486	—	—	0.05	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.488	—	—	0.05	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.48	—	—	0.05	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00492	0.00695	0.0337	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00258	0.00577	0.0354	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00258	0.00447	0.021	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00616	0.00754	0.025	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00805	0.0111	0.0346	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00617	0.00617	0.0289	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00255	0.0057	0.0238	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	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	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00477	0.00584	0.0289	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00734	0.00647	0.0297	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0123	0.00886	0.0414	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00258	0.00447	0.0434	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00774	0.00774	0.0489	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00308	0.0111	0.0583	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0107	0.00929	0.0371	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00308	0.0069	0.0607	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00509	0.00624	0.0502	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00477	0.00584	0.0388	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00245	0.00647	0.0398	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.32	—	—	0.05	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.31	—	—	0.05	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.28	—	—	0.05	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.3	—	—	0.05	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.41	—	—	0.05	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.4	—	—	0.05	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20	21.7	78.7	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	16.2	18.9	73.4	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22.1	14.9	53.8	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	18	22.6	40.8	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.3	20.5	55.6	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.3	15.4	60.5	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-20.3	19.3	65.5	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.6	16.9	63.5	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	41.7	19.5	47.2	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	79.3	—	—	0.053	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	79.7	—	—	0.053	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.6	—	—	0.053	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78	—	—	0.053	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.6	—	—	0.053	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.9	—	—	0.053	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.5	—	—	0.053	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	82.5	—	—	0.053	mg/L	Y	—	J+	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	83.7	—	—	0.053	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.1	—	—	0.1	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.2	—	—	0.1	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	13	—	—	0.1	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.1	—	—	0.1	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.4	—	—	0.1	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.5	—	—	0.1	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.29	1.46	5.5	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.922	1.53	5.74	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.73	1.19	4.73	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.94	1.54	4.83	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	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	08/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.22	1.07	3.81	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.43	1.31	5.02	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.48	2.13	8.51	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.19	1.58	5.91	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.24	1.12	3.29	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	163	—	—	3.63	µS/cm	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	176	—	—	3.63	µS/cm	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	1	µS/cm	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	1	µS/cm	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	187	—	—	1	µS/cm	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	193	—	—	1	µS/cm	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	190	—	—	1	µS/cm	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	188	—	—	1	µS/cm	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	188	—	—	1	µS/cm	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	76.3	—	—	1	µg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	76.1	—	—	1	µg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.1	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.5	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.7	—	—	1	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	75.6	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	75.7	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	81.2	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	81.9	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.172	0.125	0.487	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0775	0.132	0.481	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.288	0.116	0.416	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0719	0.0748	0.264	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.064	0.133	0.481	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.143	0.146	0.493	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.138	0.126	0.489	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.081	0.142	0.478	—	pCi/L	Y	U	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.095	0.142	0.493	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.44	—	—	0.133	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.48	—	—	0.133	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.34	—	—	0.133	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.33	—	—	0.133	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.59	—	—	0.133	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.47	—	—	0.133	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.48	—	—	0.133	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.5	—	—	0.133	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.49	—	—	0.133	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	166	—	—	3.4	mg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	157	—	—	3.4	mg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170	—	—	3.4	mg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.36	—	—	0.33	mg/L	Y	J	J	2014-4474	CALA-14-86016	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	09/03/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.356	—	—	0.33	mg/L	Y	J	J	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.344	—	—	0.33	mg/L	Y	J	J	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.481	—	—	0.33	mg/L	Y	J	J	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.422	—	—	0.33	mg/L	Y	J	J	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.565	—	—	0.33	mg/L	Y	J	J	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.67	0.715	2.395	—	pCi/L	Y	U	U	2014-4478	CALA-14-86016	ARSL
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.863	0.715	2.331	—	pCi/L	Y	U	U	2014-4478	CALA-14-85996	ARSL
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.512	0.6	1.783	—	pCi/L	Y	U	U	2014-2868	CALA-14-54395	ARSL
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.155	0.542	1.834	—	pCi/L	Y	U	U	2014-2868	CALA-14-54388	ARSL
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.771	0.705	2.096	—	pCi/L	Y	U	U	2013-1707	CALA-13-39194	ARSL
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	3.009	0.931	2.557	—	pCi/L	Y	—	J-	2013-920	CALA-13-33426	ARSL
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.54	0.875	2.93	—	pCi/L	Y	U	U	2013-920	CALA-13-33411	ARSL
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.794	1.4	1.519	—	pCi/L	Y	—	U	2013-548	CALA-13-28685	ARSL
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.895	1.703	2.678	—	pCi/L	Y	U	U	2013-548	CALA-13-28680	ARSL
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.692	—	—	0.067	µg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.697	—	—	0.067	µg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.693	—	—	0.067	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.689	—	—	0.067	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.694	—	—	0.067	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.611	—	—	0.067	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.624	—	—	0.067	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.792	—	—	0.067	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.778	—	—	0.067	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.514	0.0346	0.0487	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.482	0.0327	0.0451	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.587	0.0346	0.036	—	pCi/L	Y	—	NQ	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0162	0.0101	0.0485	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.478	0.0366	0.0569	—	pCi/L	Y	—	NQ	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.512	0.0374	0.0571	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.527	0.0384	0.0576	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.545	0.0352	0.0452	—	pCi/L	Y	—	J	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.541	0.0366	0.0509	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.025	0.01	0.0358	—	pCi/L	Y	U	U	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0205	0.00812	0.0331	—	pCi/L	Y	U	U	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0124	0.00824	0.0189	—	pCi/L	Y	U	U	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0067	0.0082	0.0255	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0166	0.00996	0.0353	—	pCi/L	Y	U	U	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0225	0.0107	0.0444	—	pCi/L	Y	U	U	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0162	0.0125	0.0448	—	pCi/L	Y	U	U	2013-916	CALA-13-33411	GELC
R-66	819.4	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0291	0.0103	0.0262	—	pCi/L	Y	—	U	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00819	0.00819	0.0296	—	pCi/L	Y	U	U	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.0231	0.0283	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-86016	GELC
R-66	819.4	09/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.195	0.0208	0.0262	—	pCi/L	Y	—	NQ	2014-4474	CALA-14-85996	GELC
R-66	819.4	02/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.189	0.0199	0.0252	—	pCi/L	Y	—	NQ	2014-2844	CALA-14-54395	GELC
R-66	819.4	02/06/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0162	0.00766	0.034	—	pCi/L	Y	U	U	2014-2844	CALA-14-54388	GELC
R-66	819.4	08/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.191	0.0233	0.0458	—	pCi/L	Y	—	NQ	2013-1671	CALA-13-39194	GELC
R-66	819.4	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.0252	0.0365	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33426	GELC
R-66	819.4	06/04/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.259	0.0263	0.0368	—	pCi/L	Y	—	NQ	2013-916	CALA-13-33411	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	02/20/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.229	0.0224	0.0245	—	pCi/L	Y	—	J	2013-553	CALA-13-28685	GELC
R-66	819.4	02/20/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.179	0.0211	0.0276	—	pCi/L	Y	—	NQ	2013-553	CALA-13-28680	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.7	—	—	1	µg/L	Y	—	NQ	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.7	—	—	1	µg/L	Y	—	NQ	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.2	—	—	1	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.5	—	—	1	µg/L	Y	—	NQ	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.6	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.2	—	—	1	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	02/20/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.4	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28687	GELC
R-66	819.4	02/20/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.4	—	—	1	µg/L	Y	—	NQ	2013-553	CALA-13-28681	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.45	—	—	0.01	SU	Y	H	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.74	—	—	0.01	SU	Y	H	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.83	—	—	0.01	SU	Y	H	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.5	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	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
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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0146	0.00975	0.0313	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00246	0.0055	0.0206	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00587	0.0246	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.3	—	—	1	µg/L	Y	—	NQ	2014-4488	CALA-14-86028	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.1	—	—	15	µg/L	Y	J	J	2014-4488	CALA-14-86028	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	21.8	—	—	0.05	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.08	1.75	5.68	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	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	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.489	1.7	5.31	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.027	2.2	5.12	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.2	—	—	0.335	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.8	—	—	0.335	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.4	—	—	0.335	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.56	—	—	2	µg/L	Y	J	J	2014-4488	CALA-14-86028	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.04	1.3	5.42	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.81	1.61	5.49	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.91	1.4	4.75	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.689	—	—	0.033	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.723	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.724	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.67	0.974	3.04	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.871	0.544	2.82	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	2.7	0.879	1.96	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39176	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.943	0.348	1.12	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-1.91	0.646	2.88	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	-1.17	0.711	2.83	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	71.1	—	—	0.453	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	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

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	08/19/10	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.04	—	—	0.11	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	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
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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.56	—	—	0.165	µg/L	Y	—	NQ	2014-4488	CALA-14-86028	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.88	2.78	9.4	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.37	3.31	11.1	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.52	2.89	10.8	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.21	—	—	0.5	µg/L	Y	J	J	2014-4488	CALA-14-86028	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.62	—	—	0.085	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.81	—	—	0.17	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.95	—	—	0.17	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.48	—	—	0.5	µg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.38	—	—	0.5	µg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.2	—	—	0.5	µg/L	Y	—	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00787	0.044	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00228	0.0225	0.0483	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0293	0.0238	0.0471	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00321	0.0085	0.054	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00891	0.0157	0.0727	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00485	0.018	0.0709	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.606	—	—	0.05	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	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
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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.9	18	72.6	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	24.8	19.8	82.5	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-6.47	19	70.2	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.8	—	—	0.053	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.5	—	—	0.053	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	20.9	—	—	0.1	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.654	1.37	5.51	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.35	1.67	7.16	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.6	1.42	4.58	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	222	—	—	3.63	µS/cm	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	1	µS/cm	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	242	—	—	1	µS/cm	Y	—	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	101	—	—	1	µg/L	Y	—	NQ	2014-4488	CALA-14-86028	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.14	0.128	0.479	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	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	08/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.057	0.128	0.48	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0754	0.139	0.494	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.12	—	—	0.133	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.43	—	—	0.133	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.34	—	—	0.133	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	176	—	—	3.4	mg/L	Y	—	NQ	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	3.4	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	201	—	—	3.4	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	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	09/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.613	—	—	0.33	mg/L	Y	J	J	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.856	—	—	0.33	mg/L	Y	J	J	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.942	—	—	0.33	mg/L	Y	J	J	2013-1614	CALA-13-39176	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	09/04/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2420	117	153	—	pCi/L	Y	—	NQ	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2280	86.1	192	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	2060	82.5	188	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39176	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.34	—	—	0.067	µg/L	Y	—	NQ	2014-4488	CALA-14-86028	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.377	0.0304	0.0502	—	pCi/L	Y	—	NQ	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.423	0.0315	0.0488	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.406	0.0321	0.0504	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39176	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0171	0.00903	0.0368	—	pCi/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00556	0.00681	0.0299	—	pCi/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00287	0.00759	0.0309	—	pCi/L	Y	U	U	2013-1614	CALA-13-39176	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

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	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	09/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.143	0.0193	0.0291	—	pCi/L	Y	—	NQ	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.117	0.0168	0.0424	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.018	0.0437	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39176	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
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.69	—	—	1	µg/L	Y	J	J	2014-4488	CALA-14-86028	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	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	9.5	—	—	3.3	µg/L	Y	J	J	2014-4488	CALA-14-86028	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-9	683	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	NQ	2013-1525	CALA-13-39216	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	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	107	—	—	0.725	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	111	—	—	0.725	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00988	0.00699	0.0317	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0087	0.00649	0.0243	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.94	—	—	1.7	µg/L	Y	J	J	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.42	—	—	1.7	µg/L	Y	J	J	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1545	CALA-11-5175	GELC
R-9	683	07/13/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	10.1	—	—	1.5	µg/L	Y	—	U	09-2615	CALA-09-11166	GELC
R-9	683	07/13/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	12.2	—	—	1.5	µg/L	Y	—	U	09-2615	CALA-09-11169	GELC
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	167	—	—	1	µg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	180	—	—	1	µg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	186	—	—	1	µg/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	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	43	—	—	15	µg/L	Y	J	J	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	42.9	—	—	15	µg/L	Y	J	J	2013-1525	CALA-13-39216	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	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	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.7	—	—	0.05	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	23.3	—	—	0.05	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.7	—	—	0.05	mg/L	Y	—	NQ	09-2615	CALA-09-11166	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	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.52	1.75	5.98	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.51	1.97	5.21	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.84	—	—	0.067	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.17	—	—	0.067	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.29	—	—	2	µg/L	Y	J	J	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.97	—	—	2	µg/L	Y	J	J	2013-1525	CALA-13-39216	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	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	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	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.627	1.67	6.11	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0399	2.07	7.59	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.214	—	—	0.033	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.252	—	—	0.033	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	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	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	09/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.55	0.909	2.88	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.604	0.73	2.74	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	09/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.29	0.446	1.25	—	pCi/L	Y	—	NQ	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.36	0.794	2.6	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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
R-9	683	09/05/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.3	—	—	0.453	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.9	—	—	0.453	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	82.4	—	—	0.35	mg/L	Y	—	NQ	09-2615	CALA-09-11166	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.97	—	—	0.11	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.23	—	—	0.11	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	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	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23	—	—	0.165	µg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.41	—	—	0.165	µg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.75	4.1	11.1	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.95	3	10.2	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.864	—	—	0.017	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.98	—	—	0.085	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	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	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	09/05/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.34	—	—	0.1	µg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.3	—	—	0.1	µg/L	Y	—	NQ	2013-1525	CALA-13-39216	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
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	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	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.006	0.00849	0.0411	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00514	0.00813	0.023	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.006	0.00848	0.0505	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0103	0.00727	0.0345	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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

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	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.76	—	—	0.05	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.77	—	—	0.05	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	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	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	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	25.3	21.8	87	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.5	28.3	60.5	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.9	—	—	0.053	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.2	—	—	0.053	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	18.9	—	—	0.1	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17.6	—	—	0.1	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	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	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	09/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.63	1.6	6.67	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.27	1.53	5.7	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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
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	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	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	3.63	µS/cm	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	253	—	—	1	µS/cm	Y	—	NQ	2013-1525	CALA-13-39216	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	179	—	—	1	µg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	186	—	—	1	µg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	176	—	—	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	Strontium	Sr	Y	186	—	—	1	µg/L	Y	—	NQ	09-2615	CALA-09-11169	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.314	0.124	0.489	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.168	0.127	0.467	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.71	—	—	0.133	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.18	—	—	0.133	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	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	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	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	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	196	—	—	3.4	mg/L	Y	—	NQ	2013-1525	CALA-13-39216	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	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	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	09/05/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.46	—	—	0.33	mg/L	Y	J	J	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.554	—	—	0.33	mg/L	Y	J	J	2013-1525	CALA-13-39198	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	09/05/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-7.05	41.8	154	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	28.2	51	171	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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
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	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.43	—	—	0.067	µg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.83	—	—	0.067	µg/L	Y	—	NQ	2013-1525	CALA-13-39216	GELC
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	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	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	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.03	0.0524	0.057	—	pCi/L	Y	—	NQ	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.813	0.049	0.0637	—	pCi/L	Y	—	J	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.026	0.0122	0.0419	—	pCi/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0145	0.0103	0.039	—	pCi/L	Y	U	U	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.502	0.0369	0.0331	—	pCi/L	Y	—	NQ	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.352	0.0324	0.0553	—	pCi/L	Y	—	J	2013-1525	CALA-13-39198	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	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	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	09/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.4	—	—	1	µg/L	Y	—	NQ	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12	—	—	1	µg/L	Y	—	NQ	2013-1525	CALA-13-39216	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

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	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
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.6	—	—	0.01	SU	Y	H	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.45	—	—	0.01	SU	Y	H	NQ	2013-1581	CALA-13-39219	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	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	90.8	—	—	0.725	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	96.2	—	—	0.725	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	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
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0138	0.0103	0.0582	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00486	0.00688	0.0204	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	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	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	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0428	—	—	0.017	mg/L	Y	J	J	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0858	—	—	0.017	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0423	—	—	0.017	mg/L	Y	J	U	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.046	—	—	0.015	mg/L	Y	J	J-	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.033	—	—	0.015	mg/L	Y	J	J-	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.033	—	—	0.016	mg/L	Y	J	U	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	10-4359	CALA-10-25209	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	42.8	—	—	1	µg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	39	—	—	1	µg/L	Y	—	NQ	10-1169	CALA-10-9194	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	28.8	—	—	15	µg/L	Y	J	J	2014-4529	CALA-14-86030	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	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	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	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	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	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	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.88	—	—	0.067	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.9	—	—	0.067	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	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

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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	39.5	—	—	0.05	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	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	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	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	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.14	2.56	4.14	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.25	1.69	5.76	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	GELC
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	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	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	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	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	36	—	—	0.67	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	35.6	—	—	0.67	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.097	1.13	3.79	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.692	1.66	6.59	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0959	—	—	0.033	mg/L	Y	J	J	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.166	—	—	0.033	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.997	0.835	2.93	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.22	0.563	2.76	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	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	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.57	0.421	1.11	—	pCi/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.53	0.921	2.48	—	pCi/L	Y	—	NQ	2013-1581	CALA-13-39201	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	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.89	0.96	2.3	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	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	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

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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	132	—	—	0.453	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	117	—	—	0.35	mg/L	Y	—	NQ	10-4359	CALA-10-25208	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.2	—	—	0.11	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	2.95	—	—	2	µg/L	Y	J	J	2014-4529	CALA-14-86030	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	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	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	175	—	—	0.825	µg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	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	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.28	2.35	8.05	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0781	3.09	10.7	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.45	—	—	0.5	µg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	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	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
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.08	—	—	0.017	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.09	—	—	0.017	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	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

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	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	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	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	09/10/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.579	—	—	0.05	µg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.602	—	—	0.05	µg/L	Y	—	NQ	2013-1581	CALA-13-39219	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	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	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	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	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00285	0.00638	0.0391	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00276	0.00478	0.0247	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	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	08/25/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-2.57E-10	0.003	0.024	—	pCi/L	Y	U	U	10-4358	CALA-10-25210	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00855	0.0131	0.048	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00552	0.037	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	08/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-1.89E-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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.7	—	—	0.05	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	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	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	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	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.24	18.7	60.1	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.7	19.4	77.6	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.74	—	—	1.5	µg/L	Y	J	J	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.45	—	—	1	µg/L	Y	J	J	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	Y	1.28	—	—	1	µg/L	Y	J	J	10-4359	CALA-10-25209	GELC
TA-53i	600	01/07/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	2.61	—	—	1	µg/L	Y	J	J	10-1169	CALA-10-9194	GELC
TA-53i	600	01/07/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	Y	2.5	—	—	1	µg/L	Y	J	J	10-1169	CALA-10-9196	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	65.7	—	—	0.053	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.2	—	—	0.053	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	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	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	17.8	—	—	0.1	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	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	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	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	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	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	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.51	1.26	4.59	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.806	1.66	6.63	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	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	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	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	337	—	—	3.63	µS/cm	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	356	—	—	1	µS/cm	Y	—	NQ	2013-1581	CALA-13-39219	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	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	220	—	—	1	µg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	191	—	—	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	Strontium	Sr	Y	200	—	—	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	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	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	182	—	—	1	µg/L	Y	—	NQ	10-1169	CALA-10-9194	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.276	0.125	0.486	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0981	0.141	0.491	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	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	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20	—	—	1.33	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19.9	—	—	1.33	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	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	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	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
TA-53i	600	09/10/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	277	—	—	3.4	mg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	237	—	—	3.4	mg/L	Y	—	NQ	2013-1581	CALA-13-39219	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

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	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	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	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	09/10/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.34	—	—	0.33	mg/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.36	—	—	0.33	mg/L	Y	—	NQ	2013-1581	CALA-13-39201	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	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	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	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	09/10/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	207	53.1	154	—	pCi/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	184	59.6	192	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	08/25/10	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	434.713	80.1581	242.816	—	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	239.827	—	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	242.816	—	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	239.827	—	pCi/L	Y	—	NQ	10-4429	CALA-10-25210	ARSL
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.05	—	—	0.067	µg/L	Y	—	NQ	2014-4529	CALA-14-86030	GELC
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	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	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	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.725	0.0588	0.0996	—	pCi/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.739	0.0415	0.0497	—	pCi/L	Y	—	J	2013-1581	CALA-13-39201	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	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	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	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
TA-53i	600	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00567	0.0127	0.0731	—	pCi/L	Y	U	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0226	0.00895	0.0304	—	pCi/L	Y	U	U	2013-1581	CALA-13-39201	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	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	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	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	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	09/10/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.271	0.0376	0.0578	—	pCi/L	Y	—	NQ	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.295	0.0262	0.0431	—	pCi/L	Y	—	J	2013-1581	CALA-13-39201	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	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	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.74	—	—	1	µg/L	Y	J	J	2014-4529	CALA-14-86030	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

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	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	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	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	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	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	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	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	11	—	—	3.3	µg/L	Y	—	NQ	2014-4529	CALA-14-86030	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	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	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	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	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	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

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 Code	Result/Screening Level
Intermediate	LAOI(a)-1.1	295.2	09/02/14	Rad[a]	Gross alpha	GROSSA	UF[b]	INIT[c]	REG[d]	Y[e]	20.2	—[f]	2.02	2.97	pCi/L	1	NQ[g]	NQ	Y	EPA:900	GELC[h]	15	EPA MCL[i]	1.35
Intermediate	LAOI-3.2	153.3	09/03/14	Perchlorate	Perchlorate	ClO4	F[j]	INIT	REG	Y	5.71	0.5	—	—	µg/L	10	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.43
Intermediate	LAOI-3.2a	181.4	09/04/14	Perchlorate	Perchlorate	ClO4	F	INIT	REG	Y	2.37	0.2	—	—	µg/L	4	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	0.59
Intermediate	R-6i	602	09/04/14	Perchlorate	Perchlorate	ClO4	F	INIT	REG	Y	6.48	0.5	—	—	µg/L	10	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.62
Regional	R-6	1205	09/12/14	SVOC[k]	Dioxane[1,4-]	123-91-1	UF	INIT	REG	Y	14.4	2.83	—	—	µg/L	1	R[l]	SV19[m]	N[n]	SW-846:8270D	GELC	7.8	EPA TAP SCRN LVL[o]	1.85

[a] Rad = Radionuclides.

[b] UF = Unfiltered.

[c] INIT = Initial.

[d] REG = Regular.

[e] Y = Yes.

[f] — = None.

[g] NQ = Not qualified.

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

[i] EPA MCL = U.S. Environmental Protection Agency maximum contaminant level.

[j] F = Filtered.

[k] SVOC = Semivolatile organic compound.

[l] R = The reported sample result is classified as rejected because of serious noncompliances regarding quality control acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone.

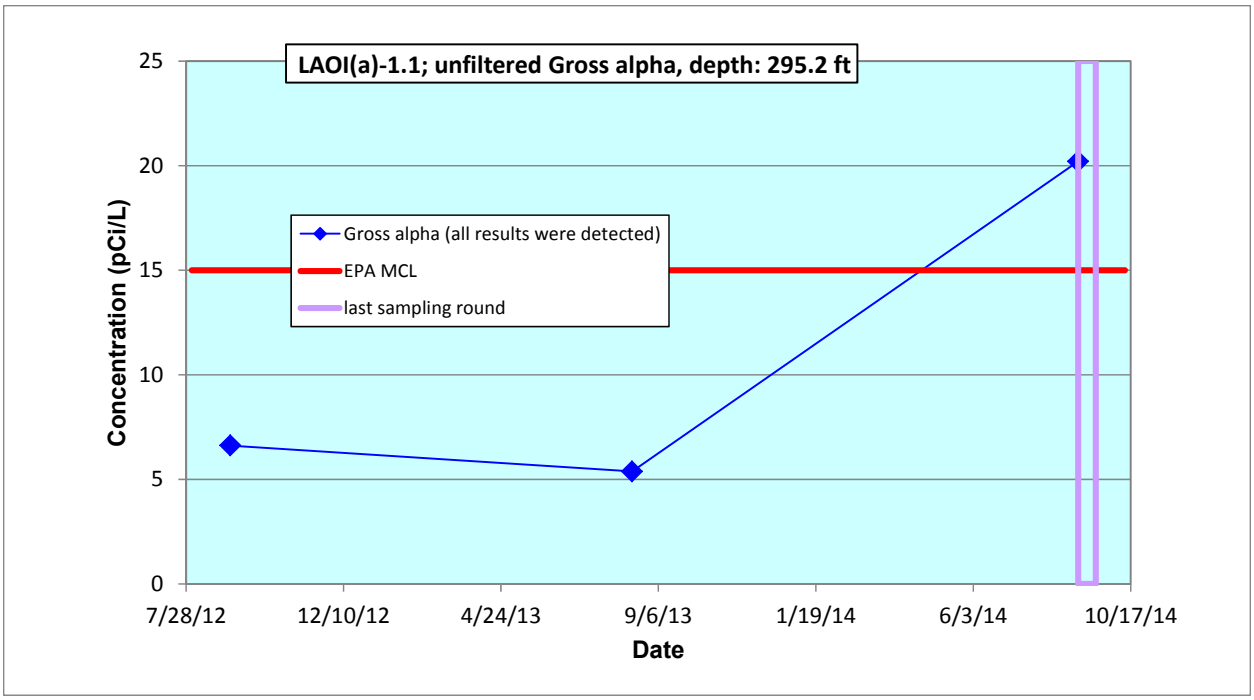
[m] SV19 = The Los Alamos National Laboratory (LANL) project chemist identified quality deficiencies in the reported data that require further qualification. This code can only be used under advisement of the LANL project chemist.

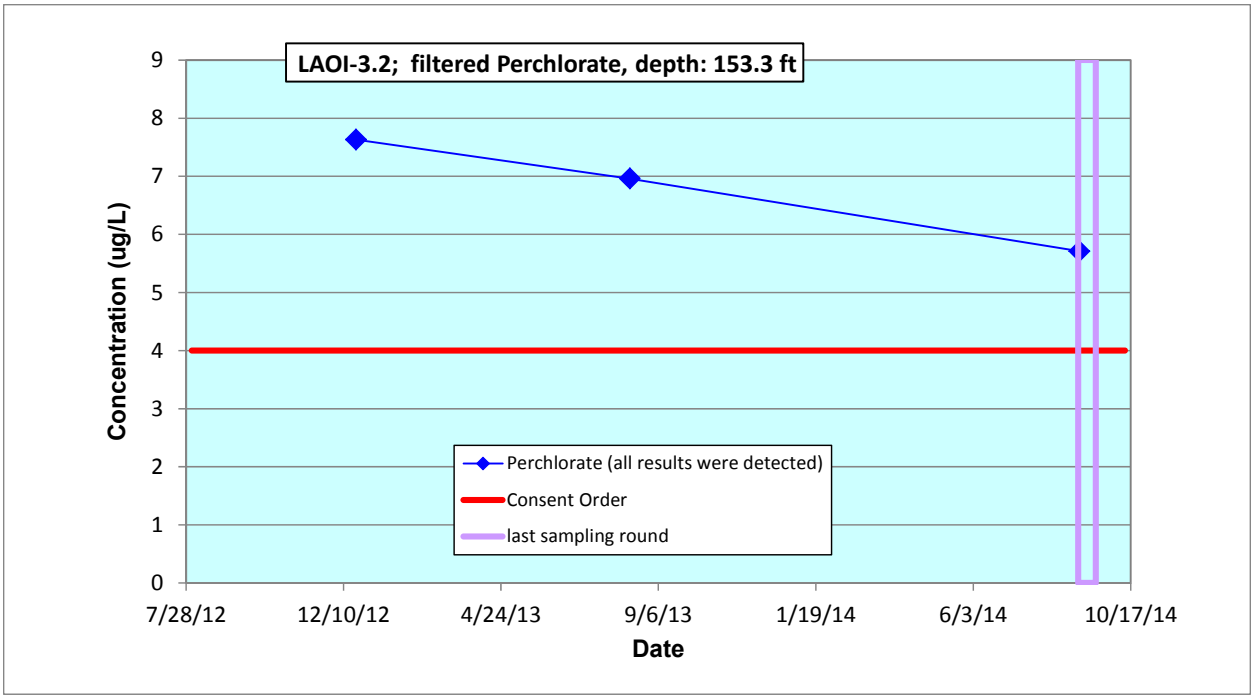
[n] N = No.

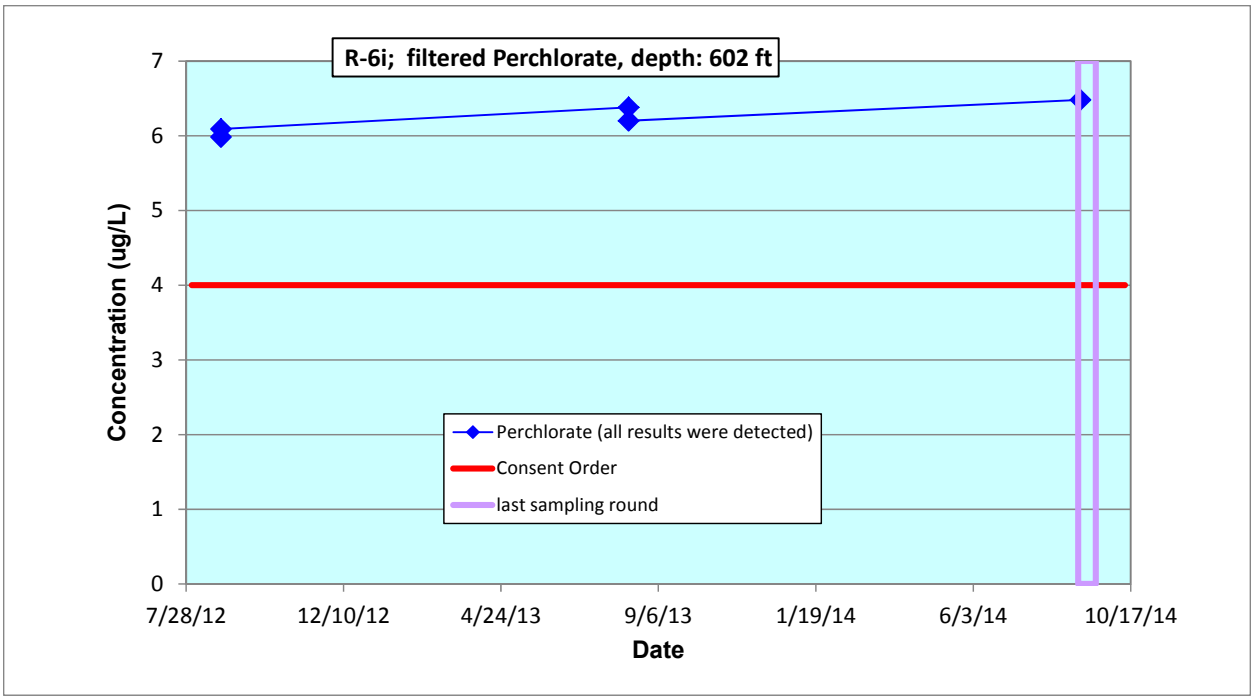
[o] EPA TAP SCRN LVL = U.S. Environmental Protection Agency regional screening level for tap water.

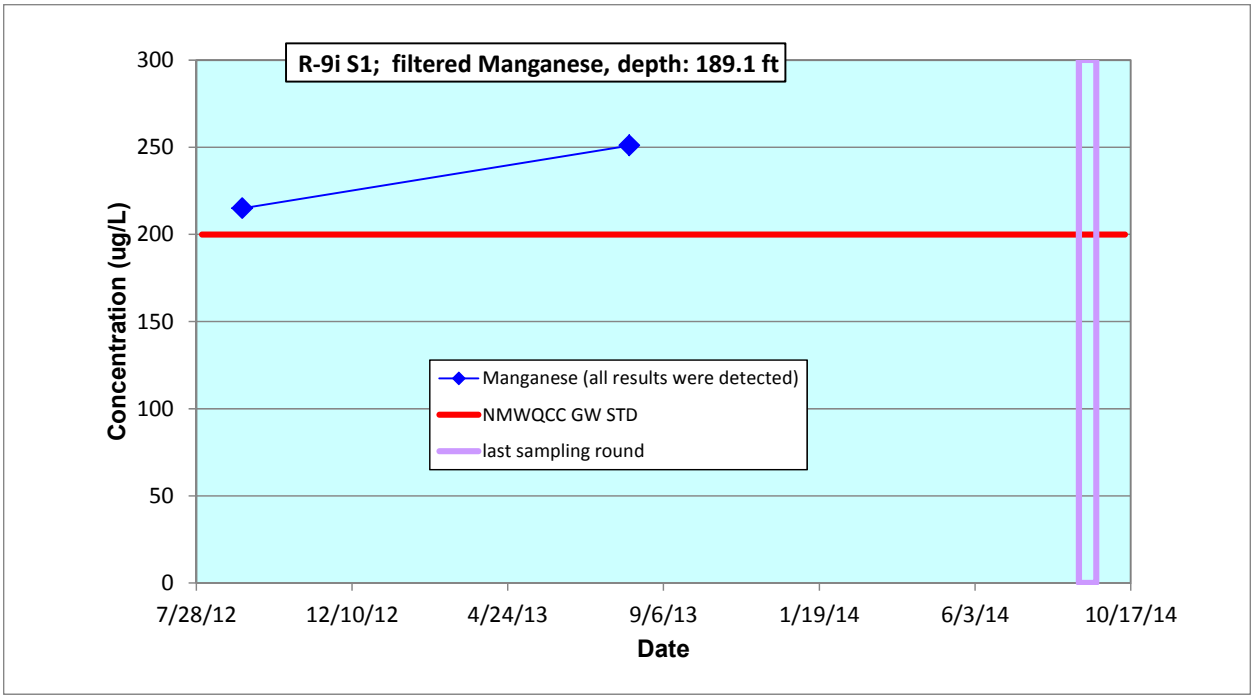
Appendix E

Analytical Chemistry Graphs of Screening-Level Exceedances


LAOI(a)-1.1; unfiltered Gross alpha, depth: 295.2 ft
Concentration (pCi/L)
25
20
15
10
5
0
Gross alpha (all results were detected)
EPA MCL
last sampling round
7/28/12
12/10/12
4/24/13
9/6/13
1/19/14
6/3/14
10/17/14
Date


LAOI-3.2; filtered Perchlorate, depth: 153.3 ft
Concentration (ug/L)
9
8
7
6
5
4
3
2
1
0
Perchlorate (all results were detected)
Consent Order
last sampling round
7/28/12
12/10/12
4/24/13
9/6/13
1/19/14
6/3/14
10/17/14
Date


R-6i; filtered Perchlorate, depth: 602 ft
Concentration (ug/L)
0
1
2
3
4
5
6
7
7/28/12
12/10/12
4/24/13
9/6/13
1/19/14
6/3/14
10/17/14
Date
Perchlorate (all results were detected)
Consent Order
last sampling round


R-9i S1; filtered Manganese, depth: 189.1 ft
Concentration (ug/L)
0
50
100
150
200
250
300
7/28/12
12/10/12
4/24/13
9/6/13
1/19/14
6/3/14
10/17/14
Date
Manganese (all results were detected)
NMWQCC GW STD
last sampling round

Appendix F

Analytical Reports
(on CD included with this document)

CD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2014-2823	Inorganic	GELC[a]	CALA-14-54396	02/03/14	R-6	1205	1228
2014-2823	Inorganic	GELC	CALA-14-54393	02/03/14	R-6	1205	1228
2014-2823	Rad[b]	GELC	CALA-14-54393	02/03/14	R-6	1205	1228
2014-2831	Rad	ARSL[c]	CALA-14-54394	02/04/14	R-64	1285	1305.5
2014-2833	Inorganic	GELC	CALA-14-54397	02/04/14	R-64	1285	1305.5
2014-2833	Inorganic	GELC	CALA-14-54394	02/04/14	R-64	1285	1305.5
2014-2833	Organic	GELC	CALA-14-54394	02/04/14	R-64	1285	1305.5
2014-2833	Rad	GELC	CALA-14-54394	02/04/14	R-64	1285	1305.5
2014-2844	Inorganic	GELC	CALA-14-54395	02/06/14	R-66	819.4	839.7
2014-2844	Inorganic	GELC	CALA-14-54388	02/06/14	R-66	819.4	839.7
2014-2844	Inorganic	GELC	CALA-14-54389	02/06/14	R-66	819.4	839.7
2014-2844	Inorganic	GELC	CALA-14-54398	02/06/14	R-66	819.4	839.7
2014-2844	Organic	GELC	CALA-14-54388	02/06/14	R-66	819.4	839.7
2014-2844	Organic	GELC	CALA-14-54395	02/06/14	R-66	819.4	839.7
2014-2844	Rad	GELC	CALA-14-54395	02/06/14	R-66	819.4	839.7
2014-2844	Rad	GELC	CALA-14-54388	02/06/14	R-66	819.4	839.7
2014-2868	Rad	ARSL	CALA-14-54395	02/06/14	R-66	819.4	839.7
2014-2868	Rad	ARSL	CALA-14-54388	02/06/14	R-66	819.4	839.7
2014-4464	Inorganic	GELC	CALA-14-86026	09/02/14	R-64	1285	1305.5
2014-4464	Inorganic	GELC	CALA-14-86015	09/02/14	R-64	1285	1305.5
2014-4464	Organic	GELC	CALA-14-86015	09/02/14	R-64	1285	1305.5
2014-4464	Rad	GELC	CALA-14-86015	09/02/14	R-64	1285	1305.5
2014-4465	Inorganic	GELC	CALA-14-86010	09/02/14	LAOI(a)-1.1	295.2	305
2014-4465	Inorganic	GELC	CALA-14-86021	09/02/14	LAOI(a)-1.1	295.2	305
2014-4465	Organic	GELC	CALA-14-86010	09/02/14	LAOI(a)-1.1	295.2	305
2014-4465	Rad	GELC	CALA-14-86010	09/02/14	LAOI(a)-1.1	295.2	305
2014-4466	Rad	ARSL	CALA-14-86010	09/02/14	LAOI(a)-1.1	295.2	305
2014-4466	Rad	ARSL	CALA-14-86015	09/02/14	R-64	1285	1305.5
2014-4474	Inorganic	GELC	CALA-14-86027	09/03/14	R-66	819.4	839.7
2014-4474	Inorganic	GELC	CALA-14-86011	09/03/14	LAOI-3.2	153.3	162.8
2014-4474	Inorganic	GELC	CALA-14-85996	09/03/14	R-66	819.4	839.7
2014-4474	Inorganic	GELC	CALA-14-85997	09/03/14	R-66	819.4	839.7
2014-4474	Inorganic	GELC	CALA-14-86022	09/03/14	LAOI-3.2	153.3	162.8
2014-4474	Inorganic	GELC	CALA-14-86016	09/03/14	R-66	819.4	839.7
2014-4474	Organic	GELC	CALA-14-85996	09/03/14	R-66	819.4	839.7
2014-4474	Organic	GELC	CALA-14-86011	09/03/14	LAOI-3.2	153.3	162.8
2014-4474	Organic	GELC	CALA-14-86016	09/03/14	R-66	819.4	839.7

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2014-4474	Rad	GELC	CALA-14-86011	09/03/14	LAOI-3.2	153.3	162.8
2014-4474	Rad	GELC	CALA-14-85996	09/03/14	R-66	819.4	839.7
2014-4474	Rad	GELC	CALA-14-86016	09/03/14	R-66	819.4	839.7
2014-4478	Rad	ARSL	CALA-14-85996	09/03/14	R-66	819.4	839.7
2014-4478	Rad	ARSL	CALA-14-86016	09/03/14	R-66	819.4	839.7
2014-4487	Inorganic	GELC	CALA-14-86012	09/04/14	LAOI-3.2a	181.4	191
2014-4487	Inorganic	GELC	CALA-14-86023	09/04/14	LAOI-3.2a	181.4	191
2014-4487	Organic	GELC	CALA-14-86012	09/04/14	LAOI-3.2a	181.4	191
2014-4487	Rad	GELC	CALA-14-86012	09/04/14	LAOI-3.2a	181.4	191
2014-4488	Inorganic	GELC	CALA-14-86017	09/04/14	R-6i	602	612
2014-4488	Inorganic	GELC	CALA-14-86028	09/04/14	R-6i	602	612
2014-4488	Organic	GELC	CALA-14-86017	09/04/14	R-6i	602	612
2014-4488	Rad	GELC	CALA-14-86017	09/04/14	R-6i	602	612
2014-4492	Inorganic	GELC	CALA-14-86029	09/05/14	R-9	683	748.5
2014-4492	Inorganic	GELC	CALA-14-86018	09/05/14	R-9	683	748.5
2014-4492	Organic	GELC	CALA-14-86018	09/05/14	R-9	683	748.5
2014-4492	Rad	GELC	CALA-14-86018	09/05/14	R-9	683	748.5
2014-4529	Inorganic	GELC	CALA-14-86030	09/10/14	TA-53i	600	610
2014-4529	Inorganic	GELC	CALA-14-86019	09/10/14	TA-53i	600	610
2014-4529	Organic	GELC	CALA-14-86019	09/10/14	TA-53i	600	610
2014-4529	Rad	GELC	CALA-14-86019	09/10/14	TA-53i	600	610
2014-4539	Inorganic	GELC	CALA-14-86013	09/11/14	LAOI-7	240	259.6
2014-4539	Inorganic	GELC	CALA-14-86024	09/11/14	LAOI-7	240	259.6
2014-4539	Organic	GELC	CALA-14-86013	09/11/14	LAOI-7	240	259.6
2014-4539	Rad	GELC	CALA-14-86013	09/11/14	LAOI-7	240	259.6
2014-4547	Inorganic	GELC	CALA-14-86025	09/12/14	R-6	1205	1228
2014-4547	Inorganic	GELC	CALA-14-86014	09/12/14	R-6	1205	1228
2014-4547	Organic	GELC	CALA-14-86014	09/12/14	R-6	1205	1228
2014-4547	Rad	GELC	CALA-14-86014	09/12/14	R-6	1205	1228

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

[b] Rad = Radiochemistry (not gamma).

[c] ARSL = American Radiation Services, Inc.