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**Periodic Monitoring Report
for Technical Area 21
Monitoring Group,
Fourth Quarter,
Monitoring Year 2015**



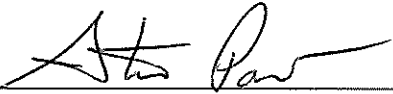
Prepared by the Associate Directorate for Environmental Management

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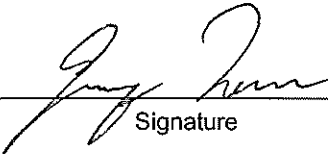
Periodic Monitoring Report for Technical Area 21 Monitoring Group, Fourth Quarter, Monitoring Year 2015

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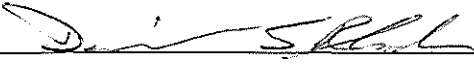
Responsible project manager:

Steve Paris		Project Manager	Environmental Remediation Program	2/16/2016
Printed Name	Signature	Title	Organization	Date

Responsible LANS representative:

<i>for</i> Randall Erickson		Associate Director	Associate Directorate for Environmental Management	2/18/16
Printed Name	Signature	Title	Organization	Date

Responsible DOE representative:

David S. Rhodes		Supervisor	DOE-EM-LA	2-24-2016
Printed Name	Signature	Title	Organization	Date

EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the monitoring year 2015, 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 2015 Monitoring Year, October 2014–September 2015, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from September 8 to September 25, 2015, 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 (dissolved oxygen, oxidation-reduction potential, pH, specific conductance, temperature, and turbidity).

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

No results from groundwater samples collected before this PME and reported in this PMR were above applicable screening levels. Two results from groundwater samples collected during the current PME were above applicable screening levels.

CONTENTS

1.0 INTRODUCTION 1
 1.1 Background..... 1

2.0 SCOPE OF ACTIVITIES 2

3.0 MONITORING RESULTS 2
 3.1 Methods and Procedures 2
 3.2 Field Parameter Results 2
 3.3 Groundwater Elevations 2
 3.4 Deviations from Planned Scope 2

4.0 ANALYTICAL DATA RESULTS..... 3
 4.1 Methods and Procedures 3
 4.2 Analytical Data..... 4
 4.2.1 Surface Water (Base Flow) 6
 4.2.2 Groundwater..... 6
 4.3 Sampling Program Modifications 6

5.0 SUMMARY AND INTERPRETATIONS 6
 5.1 Monitoring Results 6
 5.2 Analytical Results 6
 5.2.1 Surface Water (Base Flow) 6
 5.2.2 Groundwater..... 6
 5.3 Data Gaps..... 6
 5.4 Remediation System Monitoring..... 7

6.0 REFERENCES 7

Figures

Figure 2.0-1 Locations scheduled to be monitored for this Current PME 9
 Figure 4.2-1 Monitoring group filtered perchlorate concentrations in µg/L..... 10

Tables

Table 2.0-1 TA-21 Monitoring Group Locations and General Information 11
 Table 3.4-1 TA-21 Monitoring Group PME Observations and Deviations 11
 Table 3.4-2 Target Analytes with MDLs above Screening Levels for Current PME 12
 Table 3.4-3 Target Analytes with MDLs below Screening Levels for Current PME..... 13
 Table 4.2-1 Sources of Screening Levels for Groundwater and Surface Water at Los Alamos
 National Laboratory..... 14
 Table 4.2-2 TA-21 Monitoring Group Groundwater Results above Screening Levels..... 14

Appendixes

- Appendix A Field Parameter Results, Including Results from Previous Four Monitoring Events if Available
- Appendix B Groundwater-Elevation Measurements (on CD included with this document)
- Appendix C Analytical Chemistry Results, Including Results from Previous Four Monitoring Events if Available
- Appendix D Groundwater Results Greater Than Half of Screening Levels
- Appendix E Analytical Chemistry Graphs of Screening-Level Exceedances
- Appendix F Analytical Reports (on CD included with this document)

Plate

- Plate 1 Groundwater elevations

Acronyms and Abbreviations

amsl	above mean sea level
AQA	Analytical Quality Associates, Inc.
BCG	Biota Concentration Guide (DOE)
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)
F	filtered
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
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event
PMR	periodic monitoring report
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 monitoring year 2015, 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 2015 Monitoring Year, October 2014–September 2015 (2015 IFGMP) (LANL 2014, 256728), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from September 8 to September 25, 2015, 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 2015 IFGMP (LANL 2014, 256728).

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 2015 IFGMP (LANL 2014, 256728).

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 current PME.

Table 3.4-2 presents a list of analytes with method detection limits (MDLs) greater than screening levels. Some of the analytes were measured using more than one analytical method, leading to a range of MDLs.

For some of these analytes, the MDL is much lower than for earlier analyses. Table 3.4-3 presents a list of analytes with MDLs below screening levels. The tables apply to the results with the lowest MDL, so the analytical method and analytical laboratory are included in the tables for reference.

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 2015 IFGMP (LANL 2014, 256728). Purge water is managed and characterized in accordance with the waste characterization strategy form associated with the well and ENV-RCRA-QP-010.3, Land Application of Groundwater. ENV-RCRA-QP-010.3 implements the NMED-approved 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 epr.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) 6.4.900.
- 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 November 2015 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 radionuclides and radioactivity are voluntarily compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Technical Standards (DCSs) for groundwater but are not reported in Table 4.2-2 or Appendix D.

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 are included in the table except for field duplicate exceedances. For example, if aluminum was detected above a screening level in both a primary sample and a field duplicate, only the primary sample result is shown. If aluminum was detected above a screening level in two primary samples, both results are 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 results from previous PME samples reported in this PMR were above applicable screening levels.

For the current PME, the perchlorate concentration at intermediate well LAOI-3.2 was 4.75 µg/L, above the Consent Order screening level of 4 µg/L. Earlier measurements since 2005 are between 2.46 µg/L and 9.0 µg/L.

For the current PME, the perchlorate concentration of 5.72 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 results collected before the current PME were above applicable screening levels.

Two results from groundwater samples collected during the current PME were above applicable screening levels (Table 4.2-2). For results above screening levels, the types of contaminants detected and their concentrations are consistent with data reported from previous PMEs in this monitoring group.

5.3 Data Gaps

Table 3.4-1 summarizes the field deviations encountered during this 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), May 2014. "Interim Facility-Wide Groundwater Monitoring Plan for the 2015 Monitoring Year, October 2014–September 2015," Los Alamos National Laboratory document LA-UR-14-23327, Los Alamos, New Mexico. (LANL 2014, 256728)

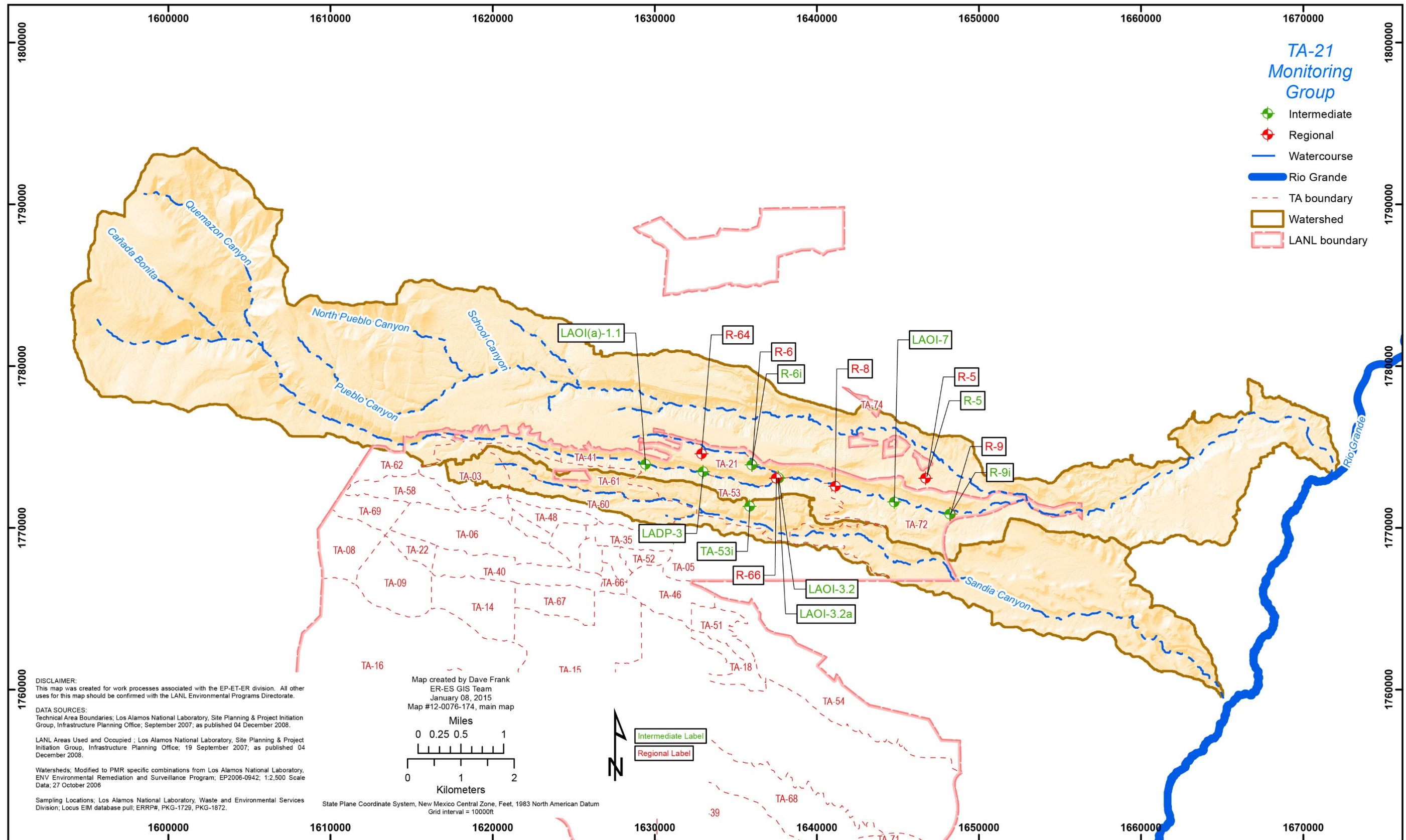


Figure 2.0-1 Locations scheduled to be monitored for the current PME (see Table 2.0-1)

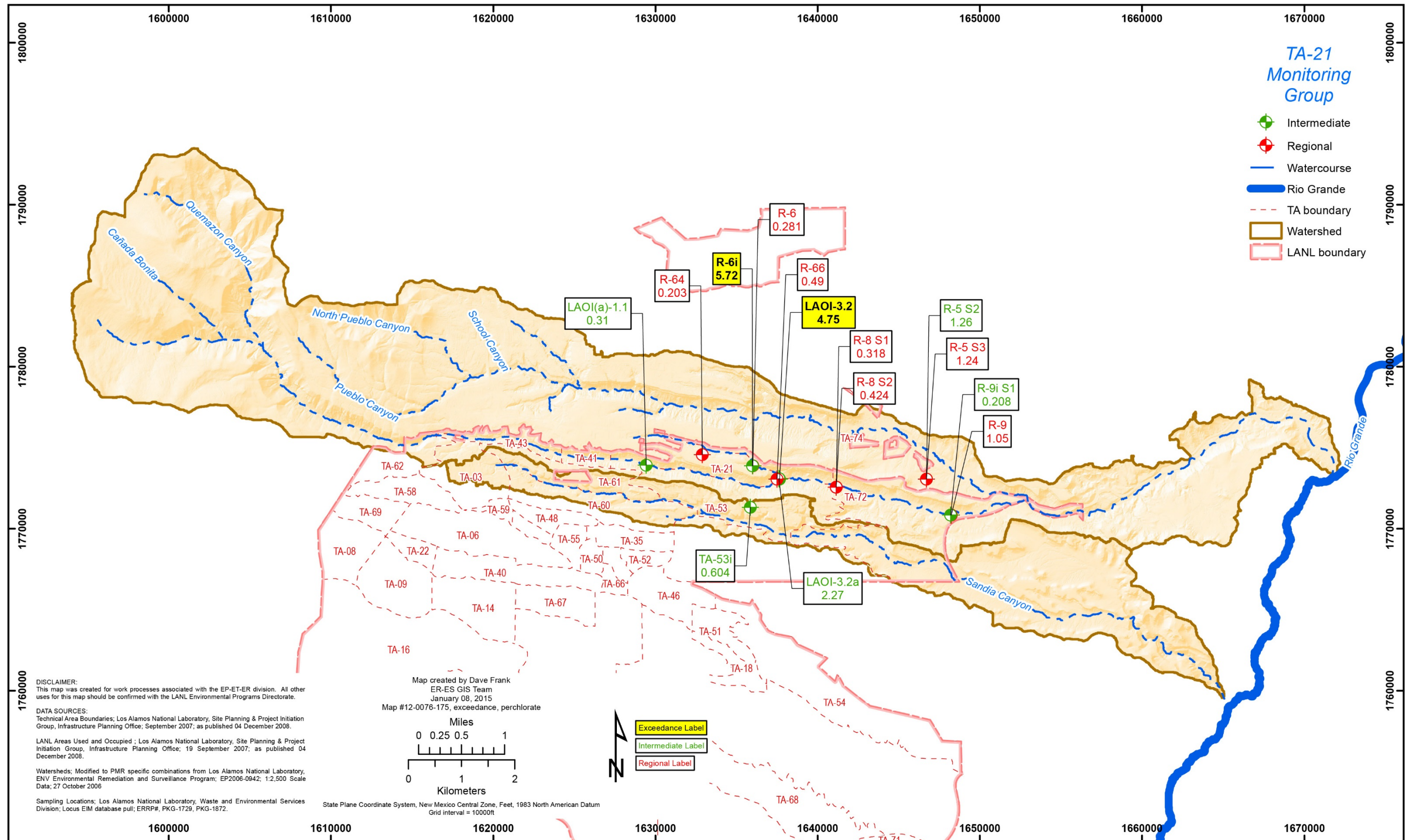


Figure 4.2-1 Monitoring group filtered perchlorate concentrations in µg/L. The Consent Order screening level is 4 µg/L.

**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	n/a	n/a	n/a	n/a	n/a	n/a
LAOI(a)-1.1	09/15/15	9.8	295.2	305	5.52	26.4	0.55
LAOI-3.2	09/18/15	9.5	153.3	162.8	6.85	18.9	0.09
LAOI-3.2a	09/17/15	9.6	181.4	191	4.14	11.73	0.69
LAOI-7	n/a	n/a	n/a	n/a	n/a	n/a	n/a
R-5 S2	09/10/15	16	372.8	388.8	n/a	n/a	n/a
R-6i	09/10/15	10	602	612	17.55	67.2	4.2
R-9i S1	09/21/15	10.4	189.1	199.5	n/a	n/a	n/a
TA-53i	09/08/15	10	600	610	21.26	65.2	3.26
Regional							
R-5 S3	09/11/15	43.4	676.9	720.3	n/a	n/a	n/a
R-6	09/09/15	23	1205	1228	75.43	226.8	8.1
R-64	09/10/15	20.5	1285.0	1305.5	45.8	174.25	6.97
R-66	09/14/15	20.3	819.4	839.7	56.46	171.5	4.9
R-8 S1	09/24/15	50.39	705.31	755.7	n/a	n/a	n/a
R-8 S2	09/25/15	7	821	828	n/a	n/a	n/a
R-9	09/16/15	65.5	683	748.5	51.29	172.8	9.6

^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.
LAOI-7	Not sampled	The location had insufficient water for sampling.	The location will be sampled during the next scheduled PME.

**Table 3.4-2
Target Analytes with MDLs above Screening Levels for Current PME**

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
Semivolatile Organic Compounds						
Atrazine	3.06–1650	SW-846:8270D	3	µg/L	EPA MCL	GELC ^a
Azobenzene	1.5–3.49	SW-846:8270D	1.2	µg/L	EPA TAP SCRNLVL ^b	GELC
Benzidine	0.83–4.53	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0011	µg/L	EPA TAP SCRNLVL	GELC
Benzo(a)anthracene	0.15–0.349	SW-846:8270D	0.12	µg/L	EPA TAP SCRNLVL	GELC
Benzo(a)pyrene	0.3–0.349	SW-846:8270D	0.2	µg/L	EPA MCL	GELC
Benzo(b)fluoranthene	0.349	SW-846:8270D	0.34	µg/L	EPA TAP SCRNLVL	GELC
Bis(2-chloroethyl)ether	1.5–3.49	SW-846:8270D	0.14	µg/L	EPA TAP SCRNLVL	GELC
Dibenz(a,h)anthracene	0.15–0.349	SW-846:8270D	0.034	µg/L	EPA TAP SCRNLVL	GELC
Dichlorobenzidine[3,3'-]	1.5–3.49	SW-846:8270D	1.3	µg/L	EPA TAP SCRNLVL	GELC
Dinitro-2-methylphenol[4,6-]	1.53–3.49	SW-846:8270D	1.5	µg/L	EPA TAP SCRNLVL	GELC
Hexachlorobenzene	1.5–3.49	SW-846:8270D	1	µg/L	EPA MCL	GELC
Indeno(1,2,3-cd)pyrene	0.349	SW-846:8270D	0.34	µg/L	EPA TAP SCRNLVL	GELC
Nitrosodiethylamine[N-]	0.03–3.49	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0017	µg/L	EPA TAP SCRNLVL	GELC
Nitrosodimethylamine[N-]	0.07–3.49	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0011	µg/L	EPA TAP SCRNLVL	GELC
Nitroso-di-n-butylamine[N-]	0.03–3.49	SW-846:8270DGCMS_SIM, SW-846:8270D	0.027	µg/L	EPA TAP SCRNLVL	GELC
Nitroso-di-n-propylamine[N-]	1.5–3.49	SW-846:8270D	0.11	µg/L	EPA TAP SCRNLVL	GELC
Nitrosopyrrolidine[N-]	1.5–3.49	SW-846:8270D	0.37	µg/L	EPA TAP SCRNLVL	GELC
Pentachlorophenol	1.5–3.49	SW-846:8270D	1	µg/L	EPA MCL	GELC
Volatile Organic Compounds						
Acrolein	0.5–1.5	SW-846:8260B_SIM, SW-846:8260B	0.042	µg/L	EPA TAP SCRNLVL	GELC
Acrylonitrile	1–1.5	SW-846:8260B	0.52	µg/L	EPA TAP SCRNLVL	GELC
Chloro-1,3-butadiene[2-]	0.2–0.3	SW-846:8260B	0.19	µg/L	EPA TAP SCRNLVL	GELC
Dibromo-3-Chloropropane[1,2-]	0.5	SW-846:8260B	0.2	µg/L	EPA MCL	GELC
Dibromoethane[1,2-]	0.3	SW-846:8260B	0.05	µg/L	EPA MCL	GELC
Trichloropropane[1,2,3-]	0.0189–0.3	SW-846:8011, SW-846:8260B	0.0075	µg/L	EPA TAP SCRNLVL	GELC

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

^a GELC = General Engineering Laboratories, Inc., Charleston, SC.

^b EPA TAP SCRNLVL = U.S. Environmental Protection Agency regional screening level for tap water.

**Table 3.4-3
Target Analytes with MDLs below Screening Levels for Current PME**

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
Herbicides						
Pentachlorophenol	0.0842–0.0992	SW-846:8270D	1	µg/L	EPA MCL	GELC ^a
Pesticides and PCBs						
Hexachlorobenzene	0.00644–0.00679	SW-846:8270D	1	µg/L	EPA MCL	GELC
Semivolatile Organic Compounds						
Atrazine	3	SW-846:8270D	3	µg/L	EPA MCL	GELC
Benzo(a)anthracene	0.03–0.0333	SW-846:8270D, SW-846:8270DGCMS_SIM	0.12	µg/L	EPA TAP SCRNLVL ^b	GELC
Benzo(a)pyrene	0.03–0.165	SW-846:8270DGCMS_SIM, SW-846:8270D	0.2	µg/L	EPA MCL	GELC
Benzo(b)fluoranthene	0.03–0.313	SW-846:8270D	0.34	µg/L	EPA TAP SCRNLVL	GELC
Bis(2-chloroethyl)ether	0.03–0.0333	SW-846:8270D	0.14	µg/L	EPA TAP SCRNLVL	GELC
Dibenz(a,h)anthracene	0.03–0.0333	SW-846:8270D	0.034	µg/L	EPA TAP SCRNLVL	GELC
Dichlorobenzidine[3,3'-]	0.039–0.0433	SW-846:8270D	1.3	µg/L	EPA TAP SCRNLVL	GELC
Dinitro-2-methylphenol[4,6-]	1.5	SW-846:8270D	1.5	µg/L	EPA TAP SCRNLVL	GELC
Indeno(1,2,3-cd)pyrene	0.03–0.313	SW-846:8270D	0.34	µg/L	EPA TAP SCRNLVL	GELC
Nitroso-di-n-propylamine[N-]	0.03–0.0333	SW-846:8270D	0.11	µg/L	EPA TAP SCRNLVL	GELC
Nitrosopyrrolidine[N-]	0.03–0.0333	SW-846:8270D, SW-846:8270DGCMS_SIM	0.37	µg/L	EPA TAP SCRNLVL	GELC
Oxybis(1-chloropropane)[2,2'-]	1.5–3.49	SW-846:8270DGCMS_SIM, SW-846:8270D	710	µg/L	EPA TAP SCRNLVL	GELC
Volatile Organic Compounds						
Acrylonitrile	0.5	SW-846:8270D	0.52	µg/L	EPA TAP SCRNLVL	GELC
Chloro-1,3-butadiene[2-]	0.1	SW-846:8270D	0.19	µg/L	EPA TAP SCRNLVL	GELC
Dibromo-3-Chloropropane[1,2-]	0.00895–0.00932	SW-846:8270D, SW-846:8270DGCMS_SIM	0.2	µg/L	EPA MCL	GELC
Dibromoethane[1,2-]	0.00895–0.00932	SW-846:8270D, SW-846:8270DGCMS_SIM	0.05	µg/L	EPA MCL	GELC
Methacrylonitrile	1–1.5	SW-846:8270DGCMS_SIM	1.9	µg/L	EPA TAP SCRNLVL	GELC

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

^a GELC = General Engineering Laboratories, Inc., Charleston, SC.

^b EPA TAP SCRNLVL = U.S. Environmental Protection Agency regional screening level for tap water.

**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 6.2.3103	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4.900.C	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4.900.F	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4.900.G	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4.900.H	NMWQCC Aquatic Life Standards Acute	n/a	X ^{d,e}
20 NMAC 6.4.900.H	NMWQCC Aquatic Life Standards Chronic	n/a	X ^{d,e}
20 NMAC 6.4.900.H	NMWQCC Aquatic Life 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.

^d Hardness-based standards for total recoverable aluminum and dissolved chromium(III) conservatively compared with results for total aluminum and dissolved chromium, respectively.

^e Standard for dissolved chromium(VI) conservatively compared with results for dissolved chromium.

**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-3.2	09/18/15	Perchlorate	F	4.75	µg/L	4	Consent Order
R-6i	09/10/15	Perchlorate	F	5.72	µg/L	4	Consent Order

*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	09/15/15	WG ^a	Dissolved Oxygen	9.19	mg/L	CALA-15-103977
LAOI(a)-1.1	295.2	09/02/14	WG	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	09/15/15	WG	Flow (in gpm ^b)	0.55	gpm	CALA-15-103977
LAOI(a)-1.1	295.2	09/02/14	WG	Flow (in gpm)	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	09/15/15	WG	Oxidation-Reduction Potential	178.7	mV	CALA-15-103977
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	09/15/15	WG	pH	7.24	SU ^c	CALA-15-103977
LAOI(a)-1.1	295.2	09/02/14	WG	pH	6.68	SU	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	09/15/15	WG	Specific Conductance	117	μS/cm	CALA-15-103977
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	09/15/15	WG	Temperature	11.92	deg C	CALA-15-103977
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	09/15/15	WG	Turbidity	25.1	NTU ^d	CALA-15-103977
LAOI(a)-1.1	295.2	09/02/14	WG	Turbidity	91.2	NTU	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-3.2	153.3	09/18/15	WG	Dissolved Oxygen	10.14	mg/L	CALA-15-103978
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	09/18/15	WG	Flow (in gpm)	0.09	gpm	CALA-15-103978
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	09/18/15	WG	Oxidation-Reduction Potential	198.3	mV	CALA-15-103978
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	09/18/15	WG	pH	6.46	SU	CALA-15-103978
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	09/18/15	WG	Specific Conductance	293	µS/cm	CALA-15-103978
LAOI-3.2	153.3	09/03/14	WG	Specific Conductance	261	µS/cm	CALA-14-86011
LAOI-3.2	153.3	08/13/13	WG	Specific Conductance	283	µS/cm	CALA-13-39186

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/18/15	WG	Temperature	12.88	deg C	CALA-15-103978
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	09/18/15	WG	Turbidity	0.5	NTU	CALA-15-103978
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-3.2a	181.4	09/17/15	WG	Dissolved Oxygen	8.82	mg/L	CALA-15-103979
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	09/17/15	WG	Flow (in gpm)	0.69	gpm	CALA-15-103979
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	09/17/15	WG	Oxidation-Reduction Potential	192	mV	CALA-15-103979
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
LAOI-3.2a	181.4	09/17/15	WG	pH	6.42	SU	CALA-15-103979
LAOI-3.2a	181.4	09/04/14	WG	pH	6.26	SU	CALA-14-86012

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/17/15	WG	Specific Conductance	278	µS/cm	CALA-15-103979
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	09/17/15	WG	Temperature	13.22	deg C	CALA-15-103979
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	09/17/15	WG	Turbidity	0.5	NTU	CALA-15-103979
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
R-5 S2	372.8	09/10/15	WG	Dissolved Oxygen	6.54	mg/L	CALA-15-103987
R-5 S2	372.8	08/14/13	WG	Dissolved Oxygen	5.7	mg/L	CALA-13-39189
R-5 S2	372.8	08/29/12	WG	Dissolved Oxygen	5.09	mg/L	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	Dissolved Oxygen	4.77	mg/L	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	Dissolved Oxygen	7.79	mg/L	CAPU-09-11247
R-5 S2	372.8	09/10/15	WG	pH	8.34	SU	CALA-15-103987
R-5 S2	372.8	08/14/13	WG	pH	8.16	SU	CALA-13-39189
R-5 S2	372.8	08/29/12	WG	pH	8.81	SU	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	pH	8.16	SU	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	pH	7.47	SU	CAPU-09-11247
R-5 S2	372.8	09/10/15	WG	Specific Conductance	265	µS/cm	CALA-15-103987

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-5 S2	372.8	08/14/13	WG	Specific Conductance	267	µS/cm	CALA-13-39189
R-5 S2	372.8	08/29/12	WG	Specific Conductance	226	µS/cm	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	Specific Conductance	262	µS/cm	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	Specific Conductance	235	µS/cm	CAPU-09-11247
R-5 S2	372.8	09/10/15	WG	Temperature	21.24	deg C	CALA-15-103987
R-5 S2	372.8	08/14/13	WG	Temperature	18.78	deg C	CALA-13-39189
R-5 S2	372.8	08/29/12	WG	Temperature	23.75	deg C	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	Temperature	19.93	deg C	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	Temperature	20.22	deg C	CAPU-09-11247
R-5 S2	372.8	09/10/15	WG	Turbidity	6.5	NTU	CALA-15-103987
R-5 S2	372.8	08/14/13	WG	Turbidity	4.3	NTU	CALA-13-39189
R-5 S2	372.8	08/29/12	WG	Turbidity	1.7	NTU	CAPU-12-22843
R-5 S2	372.8	03/09/11	WG	Turbidity	6	NTU	CAPU-11-5283
R-5 S2	372.8	07/22/09	WG	Turbidity	0.91	NTU	CAPU-09-11247
R-5 S3	676.9	09/11/15	WG	Dissolved Oxygen	4.55	mg/L	CALA-15-103988
R-5 S3	676.9	08/14/13	WG	Dissolved Oxygen	6.81	mg/L	CALA-13-39190
R-5 S3	676.9	08/30/12	WG	Dissolved Oxygen	5.87	mg/L	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	Dissolved Oxygen	5.78	mg/L	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	Dissolved Oxygen	5.83	mg/L	CAPU-09-1795
R-5 S3	676.9	09/11/15	WG	pH	8.19	SU	CALA-15-103988
R-5 S3	676.9	08/14/13	WG	pH	8.2	SU	CALA-13-39190
R-5 S3	676.9	08/30/12	WG	pH	7.27	SU	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	pH	7.94	SU	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	pH	7.22	SU	CAPU-09-1795
R-5 S3	676.9	09/11/15	WG	Specific Conductance	265	µS/cm	CALA-15-103988
R-5 S3	676.9	08/14/13	WG	Specific Conductance	270	µS/cm	CALA-13-39190
R-5 S3	676.9	08/30/12	WG	Specific Conductance	258	µS/cm	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	Specific Conductance	264	µS/cm	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	Specific Conductance	499	µS/cm	CAPU-09-1795

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-5 S3	676.9	09/11/15	WG	Temperature	23.05	deg C	CALA-15-103988
R-5 S3	676.9	08/14/13	WG	Temperature	22.85	deg C	CALA-13-39190
R-5 S3	676.9	08/30/12	WG	Temperature	23.21	deg C	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	Temperature	21.29	deg C	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	Temperature	19.92	deg C	CAPU-09-1795
R-5 S3	676.9	09/11/15	WG	Turbidity	0.3	NTU	CALA-15-103988
R-5 S3	676.9	08/14/13	WG	Turbidity	4	NTU	CALA-13-39190
R-5 S3	676.9	08/30/12	WG	Turbidity	1.03	NTU	CAPU-12-22841
R-5 S3	676.9	03/10/11	WG	Turbidity	1.9	NTU	CAPU-11-5301
R-5 S3	676.9	01/14/09	WG	Turbidity	0.32	NTU	CAPU-09-1795
R-6	1205	09/09/15	WG	Dissolved Oxygen	4.73	mg/L	CALA-15-103989
R-6	1205	03/13/15	WG	Dissolved Oxygen	5.8	mg/L	CALA-15-92866
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	09/09/15	WG	Flow (in gpm)	8.1	gpm	CALA-15-103989
R-6	1205	03/13/15	WG	Flow (in gpm)	8.57	gpm	CALA-15-92866
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	09/09/15	WG	Oxidation-Reduction Potential	96	mV	CALA-15-103989
R-6	1205	03/13/15	WG	Oxidation-Reduction Potential	203.2	mV	CALA-15-92866
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	09/09/15	WG	pH	8.05	SU	CALA-15-103989
R-6	1205	03/13/15	WG	pH	8.2	SU	CALA-15-92866
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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-6	1205	08/07/13	WG	pH	8.17	SU	CALA-13-39210
R-6	1205	09/09/15	WG	Specific Conductance	142	µS/cm	CALA-15-103989
R-6	1205	03/13/15	WG	Specific Conductance	142	µS/cm	CALA-15-92866
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	09/09/15	WG	Temperature	22.68	deg C	CALA-15-103989
R-6	1205	03/13/15	WG	Temperature	22.25	deg C	CALA-15-92866
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
R-6	1205	09/09/15	WG	Turbidity	0.2	NTU	CALA-15-103989
R-6	1205	03/13/15	WG	Turbidity	0.39	NTU	CALA-15-92866
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-64	1285	09/10/15	WG	Dissolved Oxygen	6.34	mg/L	CALA-15-103990
R-64	1285	03/12/15	WG	Dissolved Oxygen	6.54	mg/L	CALA-15-92867
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	09/10/15	WG	Flow (in gpm)	6.97	gpm	CALA-15-103990
R-64	1285	03/12/15	WG	Flow (in gpm)	7.1	gpm	CALA-15-92867
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	09/10/15	WG	Oxidation-Reduction Potential	94.5	mV	CALA-15-103990
R-64	1285	03/12/15	WG	Oxidation-Reduction Potential	211	mV	CALA-15-92867
R-64	1285	09/02/14	WG	Oxidation-Reduction Potential	97.4	mV	CALA-14-86015

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/10/15	WG	pH	8.25	SU	CALA-15-103990
R-64	1285	03/12/15	WG	pH	8.46	SU	CALA-15-92867
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	09/10/15	WG	Specific Conductance	126	µS/cm	CALA-15-103990
R-64	1285	03/12/15	WG	Specific Conductance	128	µS/cm	CALA-15-92867
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	09/10/15	WG	Temperature	19.28	deg C	CALA-15-103990
R-64	1285	03/12/15	WG	Temperature	18.58	deg C	CALA-15-92867
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	09/10/15	WG	Turbidity	2	NTU	CALA-15-103990
R-64	1285	03/12/15	WG	Turbidity	1.8	NTU	CALA-15-92867
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-66	819.4	09/14/15	WG	Dissolved Oxygen	6.78	mg/L	CALA-15-103991
R-66	819.4	03/11/15	WG	Dissolved Oxygen	7.04	mg/L	CALA-15-92868
R-66	819.4	12/03/14	WG	Dissolved Oxygen	7	mg/L	CALA-15-90560
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	09/14/15	WG	Flow (in gpm)	4.9	gpm	CALA-15-103991
R-66	819.4	03/11/15	WG	Flow (in gpm)	5	gpm	CALA-15-92868

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-66	819.4	12/03/14	WG	Flow (in gpm)	5	gpm	CALA-15-90560
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	09/14/15	WG	Oxidation-Reduction Potential	185.6	mV	CALA-15-103991
R-66	819.4	03/11/15	WG	Oxidation-Reduction Potential	123.8	mV	CALA-15-92868
R-66	819.4	12/03/14	WG	Oxidation-Reduction Potential	158	mV	CALA-15-90560
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	09/14/15	WG	pH	7.66	SU	CALA-15-103991
R-66	819.4	03/11/15	WG	pH	7.78	SU	CALA-15-92868
R-66	819.4	12/03/14	WG	pH	7.8	SU	CALA-15-90560
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	09/14/15	WG	Specific Conductance	192	µS/cm	CALA-15-103991
R-66	819.4	03/11/15	WG	Specific Conductance	203	µS/cm	CALA-15-92868
R-66	819.4	12/03/14	WG	Specific Conductance	193	µS/cm	CALA-15-90560
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	09/14/15	WG	Temperature	24.17	deg C	CALA-15-103991
R-66	819.4	03/11/15	WG	Temperature	23.84	deg C	CALA-15-92868
R-66	819.4	12/03/14	WG	Temperature	23.77	deg C	CALA-15-90560
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
R-66	819.4	09/14/15	WG	Turbidity	0	NTU	CALA-15-103991
R-66	819.4	03/11/15	WG	Turbidity	1.43	NTU	CALA-15-92868
R-66	819.4	12/03/14	WG	Turbidity	0.6	NTU	CALA-15-90560
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-6i	602	09/10/15	WG	Dissolved Oxygen	7.24	mg/L	CALA-15-103992

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/10/15	WG	Flow (in gpm)	4.2	gpm	CALA-15-103992
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	09/10/15	WG	Oxidation-Reduction Potential	125.6	mV	CALA-15-103992
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	09/10/15	WG	pH	7.32	SU	CALA-15-103992
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	09/10/15	WG	Specific Conductance	237	µS/cm	CALA-15-103992
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	09/10/15	WG	Temperature	18.17	deg C	CALA-15-103992
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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-6i	602	09/10/15	WG	Turbidity	0.2	NTU	CALA-15-103992
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-8 S1	705.31	09/24/15	WG	Dissolved Oxygen	5.03	mg/L	CALA-15-103993
R-8 S1	705.31	08/12/13	WG	Dissolved Oxygen	7.23	mg/L	CALA-13-39196
R-8 S1	705.31	09/04/12	WG	Dissolved Oxygen	6.3	mg/L	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	Dissolved Oxygen	4.07	mg/L	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	Dissolved Oxygen	5.3	mg/L	CALA-09-1761
R-8 S1	705.31	09/24/15	WG	pH	8.34	SU	CALA-15-103993
R-8 S1	705.31	08/12/13	WG	pH	8.34	SU	CALA-13-39196
R-8 S1	705.31	09/04/12	WG	pH	8.09	SU	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	pH	8.42	SU	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	pH	8.41	SU	CALA-09-1761
R-8 S1	705.31	09/24/15	WG	Specific Conductance	150	µS/cm	CALA-15-103993
R-8 S1	705.31	08/12/13	WG	Specific Conductance	158	µS/cm	CALA-13-39196
R-8 S1	705.31	09/04/12	WG	Specific Conductance	150	µS/cm	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	Specific Conductance	168	µS/cm	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	Specific Conductance	260	µS/cm	CALA-09-1761
R-8 S1	705.31	09/24/15	WG	Temperature	21.89	deg C	CALA-15-103993
R-8 S1	705.31	08/12/13	WG	Temperature	20.79	deg C	CALA-13-39196
R-8 S1	705.31	09/04/12	WG	Temperature	23.05	deg C	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	Temperature	20.74	deg C	CALA-11-5178
R-8 S1	705.31	01/08/09	WG	Temperature	17.77	deg C	CALA-09-1761
R-8 S1	705.31	09/24/15	WG	Turbidity	4	NTU	CALA-15-103993
R-8 S1	705.31	08/12/13	WG	Turbidity	4.1	NTU	CALA-13-39196
R-8 S1	705.31	09/04/12	WG	Turbidity	0.68	NTU	CALA-12-22895
R-8 S1	705.31	03/16/11	WG	Turbidity	4.1	NTU	CALA-11-5178

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-8 S1	705.31	01/08/09	WG	Turbidity	1.01	NTU	CALA-09-1761
R-8 S2	821	09/25/15	WG	Dissolved Oxygen	5.23	mg/L	CALA-15-103994
R-8 S2	821	08/12/13	WG	Dissolved Oxygen	6.78	mg/L	CALA-13-39197
R-8 S2	821	09/05/12	WG	Dissolved Oxygen	4.81	mg/L	CALA-12-22896
R-8 S2	821	03/16/11	WG	Dissolved Oxygen	5.6	mg/L	CALA-11-5183
R-8 S2	821	07/09/09	WG	Dissolved Oxygen	7.87	mg/L	CALA-09-11176
R-8 S2	821	09/25/15	WG	pH	8.55	SU	CALA-15-103994
R-8 S2	821	08/12/13	WG	pH	8.68	SU	CALA-13-39197
R-8 S2	821	09/05/12	WG	pH	8.76	SU	CALA-12-22896
R-8 S2	821	03/16/11	WG	pH	8.82	SU	CALA-11-5183
R-8 S2	821	07/09/09	WG	pH	8.59	SU	CALA-09-11176
R-8 S2	821	09/25/15	WG	Specific Conductance	205	µS/cm	CALA-15-103994
R-8 S2	821	08/12/13	WG	Specific Conductance	202	µS/cm	CALA-13-39197
R-8 S2	821	09/05/12	WG	Specific Conductance	186	µS/cm	CALA-12-22896
R-8 S2	821	03/16/11	WG	Specific Conductance	200	µS/cm	CALA-11-5183
R-8 S2	821	07/09/09	WG	Specific Conductance	123	µS/cm	CALA-09-11176
R-8 S2	821	09/25/15	WG	Temperature	22.9	deg C	CALA-15-103994
R-8 S2	821	08/12/13	WG	Temperature	22.01	deg C	CALA-13-39197
R-8 S2	821	09/05/12	WG	Temperature	21.62	deg C	CALA-12-22896
R-8 S2	821	03/16/11	WG	Temperature	21.93	deg C	CALA-11-5183
R-8 S2	821	07/09/09	WG	Temperature	23.81	deg C	CALA-09-11176
R-8 S2	821	09/25/15	WG	Turbidity	3.2	NTU	CALA-15-103994
R-8 S2	821	08/12/13	WG	Turbidity	3.2	NTU	CALA-13-39197
R-8 S2	821	09/05/12	WG	Turbidity	0.84	NTU	CALA-12-22896
R-8 S2	821	03/16/11	WG	Turbidity	2.7	NTU	CALA-11-5183
R-8 S2	821	07/09/09	WG	Turbidity	3.86	NTU	CALA-09-11176
R-9	683	09/16/15	WG	Dissolved Oxygen	5.94	mg/L	CALA-15-103995
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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/16/15	WG	Flow (in gpm)	9.6	gpm	CALA-15-103995
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	09/16/15	WG	Oxidation-Reduction Potential	128.7	mV	CALA-15-103995
R-9	683	09/05/14	WG	Oxidation-Reduction Potential	149.3	mV	CALA-14-86018
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	09/16/15	WG	pH	8.03	SU	CALA-15-103995
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	09/16/15	WG	Specific Conductance	253	µS/cm	CALA-15-103995
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	09/16/15	WG	Temperature	22.67	deg C	CALA-15-103995
R-9	683	09/05/14	WG	Temperature	22.74	deg C	CALA-14-86018

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/16/15	WG	Turbidity	1.28	NTU	CALA-15-103995
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
R-9i S1	189.1	09/21/15	WG	Dissolved Oxygen	6.91	mg/L	CALA-15-103996
R-9i S1	189.1	08/08/13	WG	Dissolved Oxygen	5.51	mg/L	CALA-13-39217
R-9i S1	189.1	09/06/12	WG	Dissolved Oxygen	4.82	mg/L	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	Dissolved Oxygen	4.49	mg/L	CALA-11-5106
R-9i S1	189.1	08/23/10	WG	Dissolved Oxygen	7.29	mg/L	CALA-10-25201
R-9i S1	189.1	09/21/15	WG	pH	7.74	SU	CALA-15-103996
R-9i S1	189.1	08/08/13	WG	pH	7.63	SU	CALA-13-39217
R-9i S1	189.1	09/06/12	WG	pH	7.18	SU	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	pH	7.75	SU	CALA-11-5106
R-9i S1	189.1	08/23/10	WG	pH	8.06	SU	CALA-10-25201
R-9i S1	189.1	09/21/15	WG	Specific Conductance	334	µS/cm	CALA-15-103996
R-9i S1	189.1	08/08/13	WG	Specific Conductance	317	µS/cm	CALA-13-39217
R-9i S1	189.1	09/06/12	WG	Specific Conductance	328	µS/cm	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	Specific Conductance	327	µS/cm	CALA-11-5106
R-9i S1	189.1	08/23/10	WG	Specific Conductance	301	µS/cm	CALA-10-25201
R-9i S1	189.1	09/21/15	WG	Temperature	14.18	deg C	CALA-15-103996
R-9i S1	189.1	08/08/13	WG	Temperature	15.35	deg C	CALA-13-39217
R-9i S1	189.1	09/06/12	WG	Temperature	17.46	deg C	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	Temperature	16.15	deg C	CALA-11-5106

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-9i S1	189.1	08/23/10	WG	Temperature	18.19	deg C	CALA-10-25201
R-9i S1	189.1	09/21/15	WG	Turbidity	4.7	NTU	CALA-15-103996
R-9i S1	189.1	08/08/13	WG	Turbidity	4.9	NTU	CALA-13-39217
R-9i S1	189.1	09/06/12	WG	Turbidity	3.02	NTU	CALA-12-22898
R-9i S1	189.1	03/17/11	WG	Turbidity	3.7	NTU	CALA-11-5106
R-9i S1	189.1	08/23/10	WG	Turbidity	3.17	NTU	CALA-10-25201
TA-53i	600	09/08/15	WG	Dissolved Oxygen	7.6	mg/L	CALA-15-103997
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	09/08/15	WG	Flow (in gpm)	3.26	gpm	CALA-15-103997
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	09/08/15	WG	Oxidation-Reduction Potential	7.9	mV	CALA-15-103997
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	09/08/15	WG	pH	6.77	SU	CALA-15-103997
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	09/08/15	WG	Specific Conductance	371	µS/cm	CALA-15-103997
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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
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	09/08/15	WG	Temperature	15.77	deg C	CALA-15-103997
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
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	09/08/15	WG	Turbidity	3.1	NTU	CALA-15-103997
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

^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 Environment 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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.03	—	—	0.01	SU	Y	H	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.2	—	—	0.725	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.027	0.00952	0.0349	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16.6	—	—	1	µg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.2	—	—	15	µg/L	Y	J	J	2015-894	CALA-15-92875	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.9	—	—	0.05	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.39	1.4	3.45	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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
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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.87	—	—	0.067	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.03	—	—	2	µg/L	Y	J	J	2015-894	CALA-15-92875	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

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	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.349	1.23	4.79	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.361	—	—	0.033	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.461	0.336	1.28	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.25	0.404	1.3	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.7	—	—	0.453	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.51	—	—	0.11	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.61	—	—	0.165	µg/L	Y	—	NQ	2015-894	CALA-15-92875	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
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	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.57	2.6	9.71	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.277	—	—	0.017	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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

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	03/13/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.277	—	—	0.05	µg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	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	CIO4	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	CIO4	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	CIO4	Y	0.313	—	—	0.05	µg/L	Y	—	NQ	12-1518	CALA-12-22828	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0161	0.00856	0.038	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.02E-09	0.00755	0.0492	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.11	—	—	0.05	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.7	17.3	40.6	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.1	—	—	0.053	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.86	—	—	0.1	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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
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	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.327	1.24	4.8	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	131	—	—	3.63	µS/cm	Y	—	NQ	2015-894	CALA-15-92875	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

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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	53.9	—	—	1	µg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00874	0.123	0.416	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.1	—	—	0.133	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	03/13/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.341	—	—	0.33	mg/L	Y	J	J	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-4547	CALA-14-86014	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	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0529	—	—	0.017	mg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.032	—	—	0.017	mg/L	Y	J	U	2014-4547	CALA-14-86025	GELC
R-6	1205	02/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0252	—	—	0.017	mg/L	Y	J	U	2014-2823	CALA-14-54396	GELC
R-6	1205	08/07/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1542	CALA-13-39210	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0517	—	—	0.017	mg/L	Y	—	U	12-1518	CALA-12-22828	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	3.12	32.9	118	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.334	—	—	0.067	µg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
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	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.259	0.0249	0.0879	—	pCi/L	Y	—	NQ	2015-894	CALA-15-92866	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

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	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0253	0.00933	0.055	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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
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	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.0172	0.0448	—	pCi/L	Y	—	J	2015-894	CALA-15-92866	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.76	—	—	1	µg/L	Y	—	NQ	2015-894	CALA-15-92875	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-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.2	—	—	0.01	SU	Y	H	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.38	—	—	0.01	SU	Y	H	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.9	—	—	0.725	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.4	—	—	0.725	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-2.37E-09	0.0113	0.0598	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00529	0.00529	0.0444	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.76	—	—	1.7	µg/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	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	Arsenic	As	Y	1.7	—	—	1.7	µg/L	Y	J	J	2013-1672	CALA-13-39179	GELC
R-64	1285	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-913	CALA-13-33433	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	12.6	—	—	1	µg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	12.5	—	—	1	µg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC

Table C-1 TA-21 Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-64	1285	09/02/14	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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.16	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.23	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.83	1.96	5.26	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.26	1.07	3.59	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.32	—	—	0.067	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.35	—	—	0.067	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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
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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.1	—	—	2	µg/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.03	—	—	2	µg/L	Y	J	J	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-4464	CALA-14-86026	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	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.13	1.63	5.05	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.915	1.02	3.62	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.319	—	—	0.033	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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

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	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	03/12/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.993	0.38	1.2	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.722	0.298	0.941	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.238	0.361	1.24	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.11	0.53	1.73	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.5	—	—	0.453	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.7	—	—	0.453	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.58	—	—	0.11	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.58	—	—	0.11	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.86	3.25	10.7	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.44	2.2	7.49	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.164	—	—	0.017	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.178	—	—	0.017	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.203	—	—	0.05	µg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC

Table C-1 TA-21 Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-64	1285	03/12/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.198	—	—	0.05	µg/L	Y	J	J	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	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	CIO4	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	CIO4	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	CIO4	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	CIO4	Y	0.206	—	—	0.05	µg/L	Y	—	NQ	2013-913	CALA-13-33433	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00451	0.00432	0.0251	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00675	0.00673	0.0257	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00572	0.00705	0.0327	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00468	0.00655	0.0335	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	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	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	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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.1	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.12	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	33.4	22.3	58.4	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	10.3	16.6	57.7	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.1	—	—	0.053	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.3	—	—	0.053	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.1	—	—	0.1	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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

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	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.316	1.67	6.1	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.133	1.04	3.93	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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
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	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	3.63	µS/cm	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	N	14.5	—	—	3.63	µS/cm	Y	U	U	2015-889	CALA-15-92856	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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.9	—	—	1	µg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.6	—	—	1	µg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0266	0.133	0.478	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00586	0.139	0.485	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.55	—	—	0.133	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.56	—	—	0.133	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	40	—	—	3.4	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	58.6	—	—	3.4	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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

Table C-1 TA-21 Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-64	1285	06/03/13	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	03/12/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0918	—	—	0.033	mg/L	Y	J	J	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.114	—	—	0.033	mg/L	Y	—	NQ	2015-889	CALA-15-92855	GELC
R-64	1285	09/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-4464	CALA-14-86015	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	03/12/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.532	—	—	0.33	mg/L	Y	J	J	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.478	—	—	0.33	mg/L	Y	J	J	2015-889	CALA-15-92855	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	03/12/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.68	0.93	3.11	—	pCi/L	Y	U	U	2015-888	CALA-15-92855	ARSL
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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.798	—	—	0.067	µg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.792	—	—	0.067	µg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
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
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	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.635	0.0414	0.0989	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.599	0.0366	0.0815	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92855	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	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0253	0.011	0.0619	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0313	0.0117	0.051	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.328	0.0292	0.0504	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.26	0.0238	0.0415	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92855	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

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	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	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.83	—	—	1	µg/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.78	—	—	1	µg/L	Y	J	J	2015-889	CALA-15-92856	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-66	819.4	03/11/15	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	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	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	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	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	2015-467	CALA-15-90549	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	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	83.1	—	—	0.725	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.3	—	—	0.725	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.8	—	—	0.725	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00884	0.00779	0.0495	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00943	0.00832	0.0656	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0022	0.00583	0.046	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0476	—	—	0.017	mg/L	Y	J	J+	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.178	—	—	0.017	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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

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: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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.89	—	—	1.7	µg/L	Y	J	J	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.76	—	—	1.7	µg/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	3.11	—	—	1.7	µg/L	Y	J	J	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	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	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.94	—	—	1.7	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	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-916	CALA-13-33412	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.2	—	—	1	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	31	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.4	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	36.3	—	—	15	µg/L	Y	J	J	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	40.3	—	—	15	µg/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	41.6	—	—	15	µg/L	Y	J	J	2015-467	CALA-15-90549	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17.3	—	—	0.05	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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

Table C-1 TA-21 Monitoring Group Previously Unreported Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0333	1.29	4.63	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.5	1.59	5.44	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.48	1.5	5.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.46	—	—	0.067	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.48	—	—	0.067	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.5	—	—	0.067	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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
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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.1	—	—	2	µg/L	Y	J	J	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.25	—	—	2	µg/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.28	—	—	2	µg/L	Y	J	J	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-4474	CALA-14-85997	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	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.828	1.11	4.48	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.27	1.33	3.78	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.09	1.74	6.05	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	4.25	—	—	3	µg/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.98	—	—	3	µg/L	Y	J	J	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2014-2844	CALA-14-54398	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	FD	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2014-2844	CALA-14-54389	GELC
R-66	819.4	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2013-1671	CALA-13-39212	GELC
R-66	819.4	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2013-916	CALA-13-33434	GELC
R-66	819.4	06/04/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2013-916	CALA-13-33412	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.27	—	—	0.033	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.289	—	—	0.033	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.278	—	—	0.033	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.07	0.392	1.39	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.728	0.786	2.77	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.106	0.567	2.43	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	03/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.75	0.545	1.75	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.65	0.358	1.09	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.69	0.549	1.77	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	03/11/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	63.9	—	—	0.453	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.4	—	—	0.453	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.2	—	—	0.453	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5	—	—	0.11	mg/L	Y	—	NQ	2015-882	CALA-15-92877	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	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.67	—	—	0.11	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.11	—	—	0.11	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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
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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.44	—	—	0.165	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.51	—	—	0.165	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.88	2.36	8.99	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.62	2.85	10.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.02	2.87	10.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.641	—	—	0.017	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.646	—	—	0.017	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.648	—	—	0.017	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.486	—	—	0.05	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.464	—	—	0.05	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.472	—	—	0.05	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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

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	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	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	CIO4	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	CIO4	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	CIO4	Y	0.486	—	—	0.05	µg/L	Y	—	NQ	2013-916	CALA-13-33412	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00671	0.00592	0.0421	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00496	0.0271	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00214	0.00371	0.0287	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0134	0.00948	0.0545	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00405	0.00572	0.04	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00428	0.00741	0.0423	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.16	—	—	0.05	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.24	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.11	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29	16.4	58.1	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.715	16.2	57	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	18.8	20.2	54.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.3	—	—	0.053	mg/L	Y	—	NQ	2015-882	CALA-15-92877	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	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80.8	—	—	0.053	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.9	—	—	0.053	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.343	1.38	5.05	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.214	1.24	4.85	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.12	1.18	4.8	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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
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	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	178	—	—	3.63	µS/cm	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	3.63	µS/cm	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	3.63	µS/cm	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	77.3	—	—	1	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	81.6	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	78.8	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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

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	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	03/11/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.156	0.141	0.482	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.013	0.132	0.482	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.156	0.145	0.49	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.31	—	—	0.133	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.32	—	—	0.133	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.35	—	—	0.133	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	03/11/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.353	—	—	0.33	mg/L	Y	J	J	2015-882	CALA-15-92868	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
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	03/11/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.97	1.22	3.9	—	pCi/L	Y	U	U	2015-886	CALA-15-92868	ARSL
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.726	0.686	2.29	—	pCi/L	Y	U	U	2015-501	CALA-15-90560	ARSL
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.175	0.748	2.558	—	pCi/L	Y	U	U	2015-501	CALA-15-90548	ARSL

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	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.684	—	—	0.067	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.633	—	—	0.067	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.676	—	—	0.067	µg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
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	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.559	0.0379	0.0943	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.477	0.0339	0.0467	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.536	0.0347	0.0417	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90548	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	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0302	0.0113	0.059	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00846	0.00846	0.0407	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0176	0.0104	0.0364	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.232	0.0243	0.048	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.0235	0.0448	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.228	0.0225	0.04	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90548	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

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	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.3	—	—	1	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.9	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	12	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.4	—	—	3.3	µg/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.57	—	—	3.3	µg/L	Y	J	J	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-4474	CALA-14-85997	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

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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.24	—	—	0.01	SU	Y	H	NQ	2015-2337	CALA-15-103999	GELC
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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	45.4	—	—	0.725	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	N	1	—	—	0.725	mg/L	Y	U	U	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	40.4	—	—	0.725	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:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	43.5	—	—	0.725	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	42.1	—	—	0.73	mg/L	Y	—	NQ	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	338	—	—	68	µg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	127	—	—	68	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	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	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0023	0.00689	0.0369	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	11.2	—	—	1	µg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	6.68	—	—	0.05	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.194	1.78	6.36	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.39	—	—	0.067	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.6	2.2	7.85	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.121	—	—	0.033	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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

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	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	09/15/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.49	1.15	2.86	—	pCi/L	Y	—	NQ	2015-2337	CALA-15-103977	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	09/15/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.24	0.479	1.16	—	pCi/L	Y	—	NQ	2015-2337	CALA-15-103977	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
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	09/15/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	23.9	—	—	0.453	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	134	—	—	30	µg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	1.76	—	—	0.11	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.67	—	—	0.165	µg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.338	3.9	13.5	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.534	—	—	0.017	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.31	—	—	0.05	µg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00431	0.00681	0.0432	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
LAOI(a)-1.1	295.2	09/04/12	WG	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	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0258	0.011	0.0385	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8	—	—	0.05	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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
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	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.73	27.9	108	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.84	—	—	0.1	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.584	1.96	6.53	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	105	—	—	1	µS/cm	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	84.9	—	—	1	µg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.111	0.132	0.474	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.39	—	—	0.133	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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

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	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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2015-2337	CALA-15-103999	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	09/15/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.338	—	—	0.33	mg/L	Y	J	J	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0274	—	—	0.017	mg/L	Y	J	J	2015-2337	CALA-15-103999	GELC
LAOI(a)-1.1	295.2	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0376	—	—	0.017	mg/L	Y	J	U	2014-4465	CALA-14-86021	GELC
LAOI(a)-1.1	295.2	08/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1668	CALA-13-39203	GELC
LAOI(a)-1.1	295.2	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.103	—	—	0.017	mg/L	Y	—	NQ	12-1533	CALA-12-22825	GELC
LAOI(a)-1.1	295.2	03/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	11-1566	CALA-11-5113	GELC
LAOI(a)-1.1	295.2	09/15/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.583	0.7	2.324	—	pCi/L	Y	U	U	2015-2347	CALA-15-103977	ARSL
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	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	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.458	—	—	0.067	µg/L	Y	—	NQ	2015-2337	CALA-15-103999	GELC
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	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.322	0.0308	0.12	—	pCi/L	Y	—	NQ	2015-2337	CALA-15-103977	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	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0458	0.0136	0.0848	—	pCi/L	Y	U	U	2015-2337	CALA-15-103977	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	09/15/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.279	0.0288	0.112	—	pCi/L	Y	—	NQ	2015-2337	CALA-15-103977	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	09/15/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.89	—	—	3.3	µg/L	Y	J	J	2015-2337	CALA-15-103999	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

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	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.99	—	—	0.01	SU	Y	H	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	81.1	—	—	0.725	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00384	0.0107	0.0366	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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
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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.3	—	—	1.7	µg/L	Y	J	J	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	39	—	—	1	µg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.695	—	—	0.067	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.4	—	—	0.05	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0243	1.24	4.58	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	31.8	—	—	0.335	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.74	1.22	5.24	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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

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	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	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0548	—	—	0.033	mg/L	Y	J	J	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.153	0.766	2.99	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.18	0.932	2.27	—	pCi/L	Y	—	NQ	2015-2357	CALA-15-103978	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	09/18/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.3	—	—	0.453	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.77	—	—	0.11	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.712	—	—	0.165	µg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.78	2.71	9.34	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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	09/18/15	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	2015-2357	CALA-15-104000	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	09/18/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.75	—	—	0.5	µg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00687	0.00606	0.0459	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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

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	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	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00915	0.00561	0.041	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	7.88	—	—	0.05	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	32.2	18.4	52.9	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	GELC
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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.9	—	—	0.053	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	18	—	—	0.1	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.4	1.28	5.55	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	261	—	—	1	µS/cm	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	117	—	—	1	µg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0715	0.124	0.477	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.4	—	—	0.133	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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

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	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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	2.71	—	—	2.5	µg/L	Y	J	J	2015-2357	CALA-15-104000	GELC
LAOI-3.2	153.3	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2014-4474	CALA-14-86022	GELC
LAOI-3.2	153.3	08/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2013-1635	CALA-13-39204	GELC
LAOI-3.2	153.3	12/21/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2013-436	CALA-13-24753	GELC
LAOI-3.2	153.3	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	11-1725	CALA-11-5116	GELC
LAOI-3.2	153.3	09/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	216	—	—	3.4	mg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.066	—	—	0.033	mg/L	Y	J	J	2015-2357	CALA-15-103978	GELC
LAOI-3.2	153.3	09/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-4474	CALA-14-86011	GELC
LAOI-3.2	153.3	08/13/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.129	—	—	0.033	mg/L	Y	—	NQ	2013-1635	CALA-13-39186	GELC
LAOI-3.2	153.3	12/21/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0685	—	—	0.033	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	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	11-1725	CALA-11-5115	GELC
LAOI-3.2	153.3	09/18/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.643	—	—	0.33	mg/L	Y	J	J	2015-2357	CALA-15-103978	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	09/18/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2060	114	171	—	pCi/L	Y	—	NQ	2015-2357	CALA-15-103978	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
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	09/18/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.35	—	—	0.067	µg/L	Y	—	NQ	2015-2357	CALA-15-104000	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	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.453	0.0363	0.118	—	pCi/L	Y	—	NQ	2015-2357	CALA-15-103978	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	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.045	0.0143	0.0833	—	pCi/L	Y	U	U	2015-2357	CALA-15-103978	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	09/18/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.479	0.037	0.11	—	pCi/L	Y	—	NQ	2015-2357	CALA-15-103978	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-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.11	—	—	0.01	SU	Y	H	NQ	2015-2353	CALA-15-104001	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	09/04/14	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	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.9	—	—	0.725	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.016	0.00883	0.0366	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.84	—	—	1.7	µg/L	Y	J	J	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	19.1	—	—	1	µg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	15.4	—	—	15	µg/L	Y	J	J	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	µg/L	Y	U	U	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.664	—	—	0.067	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	24.3	—	—	0.05	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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
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	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.4	1.48	5.57	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	23.4	—	—	0.335	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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

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	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.696	1.38	4.95	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0476	—	—	0.033	mg/L	Y	J	J	2015-2353	CALA-15-104001	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	09/17/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.196	0.675	2.88	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13.2	0.989	1.9	—	pCi/L	Y	—	NQ	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.9	—	—	0.453	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.17	—	—	0.11	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.84	—	—	0.165	µg/L	Y	—	NQ	2015-2353	CALA-15-104001	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
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	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.193	2.93	10.1	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.551	—	—	0.5	µg/L	Y	J	J	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.12	—	—	0.5	µg/L	Y	J	J	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.03	—	—	0.5	µg/L	Y	J	J	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.33	—	—	0.5	µg/L	Y	J	U	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.78	—	—	0.085	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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

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	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	09/17/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.27	—	—	0.25	µg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00239	0.00632	0.0479	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00239	0.00985	0.0428	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	10.6	—	—	0.05	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	47.1	15.9	52.5	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.3	—	—	0.053	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16.1	—	—	0.1	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.28	1.71	4.75	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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
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	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	236	—	—	1	µS/cm	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	151	—	—	1	µg/L	Y	—	NQ	2015-2353	CALA-15-104001	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

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	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	09/17/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.233	0.125	0.48	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	11	—	—	0.133	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	3.13	—	—	2.5	µg/L	Y	J	J	2015-2353	CALA-15-104001	GELC
LAOI-3.2a	181.4	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2014-4487	CALA-14-86023	GELC
LAOI-3.2a	181.4	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2013-1655	CALA-13-39205	GELC
LAOI-3.2a	181.4	09/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1555	CALA-12-22827	GELC
LAOI-3.2a	181.4	03/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	11-1725	CALA-11-5158	GELC
LAOI-3.2a	181.4	09/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	204	—	—	3.4	mg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.669	—	—	0.33	mg/L	Y	J	J	2015-2353	CALA-15-103979	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	09/17/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	1150	90.9	171	—	pCi/L	Y	—	NQ	2015-2353	CALA-15-103979	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	09/17/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.57	—	—	0.067	µg/L	Y	—	NQ	2015-2353	CALA-15-104001	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	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.529	0.043	0.142	—	pCi/L	Y	—	NQ	2015-2353	CALA-15-103979	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	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0375	0.0138	0.1	—	pCi/L	Y	U	U	2015-2353	CALA-15-103979	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
LAOI-3.2a	181.4	09/17/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.526	0.0426	0.132	—	pCi/L	Y	—	NQ	2015-2353	CALA-15-103979	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

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	08/14/13	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
R-5 S2	372.8	09/10/15	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	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	4.14	—	—	0.01	SU	Y	H	J-	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	99.6	—	—	0.725	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	96.2	—	—	0.725	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94.9	—	—	0.725	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94	—	—	0.73	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	N	1	—	—	0.73	mg/L	Y	U	U	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00399	0.00692	0.0321	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00633	0.007	0.0177	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00276	0.00478	0.0378	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00986	0.0056	0.033	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00359	0.0041	0.037	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.12	—	—	1.7	µg/L	Y	J	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.75	—	—	1.7	µg/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	6.9	—	—	1.5	µg/L	Y	—	U	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	1.5	—	—	1.5	µg/L	Y	U	U	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	203	—	—	1	µg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	193	—	—	1	µg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	199	—	—	1	µg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	190	—	—	1	µg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	187	—	—	1	µg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	27.3	—	—	15	µg/L	Y	J	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.3	—	—	15	µg/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.3	—	—	15	µg/L	Y	J	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	24.8	—	—	10	µg/L	Y	J	J	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	27.4	—	—	10	µg/L	Y	J	U	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.115	—	—	0.067	mg/L	Y	J	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.103	—	—	0.067	mg/L	Y	J	J	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.121	—	—	0.067	mg/L	Y	J	J	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.152	—	—	0.066	mg/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.125	—	—	0.066	mg/L	Y	J	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	31.8	—	—	0.05	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	31.7	—	—	0.05	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	29.8	—	—	0.05	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	30	—	—	0.03	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	27.9	—	—	0.03	mg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0544	1.32	4.71	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.23	0.908	4.94	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.227	1.73	6.33	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.911	1.1	3.6	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.72	1.7	5.2	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.57	—	—	0.067	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.38	—	—	0.067	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.61	—	—	0.067	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.22	—	—	0.066	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.24	—	—	0.066	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.51	—	—	2	µg/L	Y	J	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.22	—	—	2	µg/L	Y	J	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.44	—	—	2.5	µg/L	Y	J	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.5	—	—	1.5	µg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.8	—	—	1	µg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.595	0.993	4.04	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.802	1.38	5.09	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.763	1.89	7.44	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.287	1.4	4.6	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.324	1.5	5.2	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.08	—	—	0.033	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.13	—	—	0.033	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.01	—	—	0.033	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.03	—	—	0.033	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	1.1	—	—	0.033	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.14	0.968	2.8	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.181	0.403	1.4	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.93	0.978	2.06	—	pCi/L	Y	—	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.301	0.52	2.3	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.28	1.2	3.3	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.6	0.806	2.19	—	pCi/L	Y	—	NQ	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.51	0.574	1.67	—	pCi/L	Y	—	J	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	26.1	1.81	2.9	—	pCi/L	Y	—	NQ	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.9	1.2	2.9	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.01	1.4	3.4	—	pCi/L	Y	—	NQ	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	92.4	—	—	0.453	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	91.5	—	—	0.45	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86	—	—	0.35	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.9	—	—	0.35	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.7	—	—	0.425	mg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.17	—	—	0.11	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.01	—	—	0.11	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.85	—	—	0.085	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.14	—	—	0.085	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.67	—	—	0.085	mg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.21	—	—	0.165	µg/L	Y	—	J	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.23	—	—	0.17	µg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.07	—	—	0.1	µg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.3	—	—	0.1	µg/L	Y	—	J	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Molybdenum	Mo	Y	2.4	—	—	2	µg/L	Y	J	J	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.19	2.56	8.97	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.69	2.78	10	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.56	2.84	9.88	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.694	2.5	8	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	30.2	12	40	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.6	—	—	0.085	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.63	—	—	0.085	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.52	—	—	0.17	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.87	—	—	0.05	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.01	—	—	0.1	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.26	—	—	0.1	µg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.39	—	—	0.1	µg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.4	—	—	0.1	µg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.25	—	—	0.1	µg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.45	—	—	0.1	µg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00191	0.00572	0.0382	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00386	0.00669	0.0173	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00979	0.00863	0.022	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00197	0.0034	0.025	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00639	0.0056	0.034	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0286	0.00873	0.0341	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00772	0.00473	0.0259	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00326	0.00565	0.0393	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00197	0.0034	0.037	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00213	0.0056	0.042	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.35	—	—	0.05	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.35	—	—	0.05	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.04	—	—	0.05	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.26	—	—	0.05	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.86	—	—	0.05	mg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-9.06	16	57.4	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.8	15.7	63.8	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.8	21.9	85.5	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.32	15	51	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	30.9	16	58	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	55.1	—	—	0.053	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.5	—	—	0.053	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	54.5	—	—	0.053	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.1	—	—	0.053	mg/L	Y	—	J+	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.9	—	—	0.053	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.2	—	—	0.1	mg/L	Y	—	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.045	mg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.6	—	—	0.045	mg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.874	1.47	4.47	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.476	1.58	5.98	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.14	1.78	7.19	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.76	0.99	2.2	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.22	1.3	3.8	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	240	—	—	3.63	µS/cm	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	256	—	—	1	µS/cm	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	µS/cm	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	µS/cm	Y	—	NQ	11-1598	CAPU-11-5285	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	336	—	—	1	µS/cm	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	298	—	—	1	µg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	321	—	—	1	µg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	298	—	—	1	µg/L	Y	—	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	309	—	—	1	µg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	294	—	—	1	µg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0371	0.0855	0.337	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0214	0.138	0.475	—	pCi/L	Y	U	U	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.168	0.0639	0.206	—	pCi/L	Y	U	U	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.1	0.15	0.52	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0946	0.14	0.49	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.91	—	—	0.133	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.4	—	—	0.133	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.76	—	—	0.133	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.84	—	—	0.1	mg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.27	—	—	0.1	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	174	—	—	3.4	mg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	190	—	—	3.4	mg/L	Y	—	NQ	2013-1654	CALA-13-39207	GELC
R-5 S2	372.8	08/29/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187	—	—	3.4	mg/L	Y	—	NQ	12-1525	CAPU-12-22843	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	171	—	—	2.4	mg/L	Y	—	J	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	316	—	—	2.4	mg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.39	0.681	2.28	—	pCi/L	Y	U	U	2015-2347	CALA-15-103987	ARSL
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.327	0.66	2.047	—	pCi/L	Y	U	U	2013-1707	CALA-13-39189	ARSL
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.186	0.704	2.235	—	pCi/L	Y	U	UJ	12-1528	CAPU-12-22840	ARSL
R-5 S2	372.8	03/09/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.2898	0.644	2.1896	—	pCi/L	Y	U	U	11-1655	CAPU-11-5283	ARSL
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.1252	0.6762	2.1896	—	pCi/L	N	U	R	11-1655	CAPU-11-5283	ARSL
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.483	0.2898	0.2898	—	pCi/L	Y	—	U	09-2728	CAPU-09-11247	UMTL
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.9	—	—	0.067	µg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.61	—	—	0.067	µg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.63	—	—	0.05	µg/L	Y	—	J	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.9	—	—	0.05	µg/L	Y	—	NQ	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.8	—	—	0.05	µg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.27	0.0778	0.194	—	pCi/L	Y	—	J-	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.11	0.0533	0.0541	—	pCi/L	Y	—	NQ	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.16	0.0545	0.0656	—	pCi/L	Y	—	NQ	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.13	0.1	0.062	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.17	0.12	0.18	—	pCi/L	Y	—	NQ	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0171	0.0127	0.137	—	pCi/L	Y	U	U	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0647	0.0154	0.0331	—	pCi/L	Y	—	NQ	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0607	0.0155	0.0423	—	pCi/L	Y	—	NQ	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0323	0.012	0.04	—	pCi/L	Y	U	U	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0203	0.015	0.092	—	pCi/L	Y	U	U	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.874	0.0644	0.18	—	pCi/L	Y	—	J-	2015-2327	CALA-15-103987	GELC
R-5 S2	372.8	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.78	0.0444	0.047	—	pCi/L	Y	—	NQ	2013-1654	CALA-13-39189	GELC
R-5 S2	372.8	08/29/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.79	0.0442	0.0333	—	pCi/L	Y	—	NQ	12-1525	CAPU-12-22840	GELC
R-5 S2	372.8	03/09/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.836	0.078	0.042	—	pCi/L	Y	—	NQ	11-1598	CAPU-11-5283	GELC
R-5 S2	372.8	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.95	0.1	0.092	—	pCi/L	Y	—	NQ	09-2718	CAPU-09-11247	GELC
R-5 S2	372.8	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.42	—	—	1	µg/L	Y	—	NQ	2015-2327	CALA-15-104009	GELC
R-5 S2	372.8	03/09/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.12	—	—	1	µg/L	Y	—	NQ	11-1598	CAPU-11-5285	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S2	372.8	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.16	—	—	1	µg/L	Y	—	NQ	09-2718	CAPU-09-11248	GELC
R-5 S2	372.8	08/26/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	10.4	—	—	1	µg/L	Y	—	U	08-1777	CAPU-08-14777	GELC
R-5 S2	372.8	07/16/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.1	—	—	1	µg/L	Y	—	NQ	189841	GF07070G05R201	GELC
R-5 S3	676.9	09/11/15	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	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	J-	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.8	—	—	0.725	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	90.8	—	—	0.725	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.6	—	—	0.725	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.5	—	—	0.73	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	91.4	—	—	0.73	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00693	0.0352	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00209	0.0108	0.0175	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00708	0.0486	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00923	0.0055	0.026	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00485	0.0028	0.034	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	95.6	—	—	1	µg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	97.5	—	—	1	µg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	94.3	—	—	1	µg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	91	—	—	1	µg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	95.5	—	—	1	µg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	41.7	—	—	15	µg/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	39.1	—	—	15	µg/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	35.8	—	—	15	µg/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	36.2	—	—	10	µg/L	Y	J	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	36.4	—	—	10	µg/L	Y	J	J	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.133	—	—	0.067	mg/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.115	—	—	0.067	mg/L	Y	J	J	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.124	—	—	0.067	mg/L	Y	J	J	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.139	—	—	0.066	mg/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.13	—	—	0.066	mg/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	26.4	—	—	0.05	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	27.7	—	—	0.05	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.6	—	—	0.05	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.9	—	—	0.03	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25	—	—	0.03	mg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.841	1.53	5.45	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.777	1.33	4.72	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.08	1.9	7.07	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0667	1.2	4	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.56	1.5	4.2	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.71	—	—	0.067	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.76	—	—	0.067	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.16	—	—	0.067	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.95	—	—	0.066	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.73	—	—	0.066	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	13.8	—	—	2	µg/L	Y	—	J	2015-2331	CALA-15-104010	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.84	—	—	2	µg/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.82	—	—	2.5	µg/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	10.4	—	—	1.5	µg/L	Y	—	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	7.3	—	—	1	µg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.535	1.79	6.61	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.08	1.19	4.67	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.121	1.79	7.05	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.711	1.6	5.3	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.86	1.6	4.3	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	14.1	—	—	3	µg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	3	—	—	3	µg/L	Y	U	U	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.682	—	—	0.033	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.688	—	—	0.033	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.595	—	—	0.033	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.647	—	—	0.033	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.812	—	—	0.033	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.14	0.851	2.89	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.164	0.398	1.34	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.03	0.634	1.87	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	4.36	1.3	2.8	—	pCi/L	Y	—	NQ	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.33	0.86	2.7	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.77	0.4	1.16	—	pCi/L	Y	—	NQ	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.83	0.509	1.57	—	pCi/L	Y	—	NQ	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.43	1.08	2.89	—	pCi/L	Y	—	NQ	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.07	1.2	2.7	—	pCi/L	Y	—	NQ	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.65	1.4	3.8	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.6	—	—	0.453	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87.4	—	—	2.3	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	78.9	—	—	0.35	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.9	—	—	0.35	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	79.7	—	—	0.425	mg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	48	—	—	30	µg/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	52.7	—	—	30	µg/L	Y	J	U	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	25	µg/L	Y	U	U	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	25	—	—	25	µg/L	Y	U	U	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.56	—	—	0.11	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.72	—	—	0.11	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.21	—	—	0.085	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.58	—	—	0.085	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.21	—	—	0.085	mg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.54	—	—	0.165	µg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.55	—	—	0.17	µg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.33	—	—	0.1	µg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	2.4	—	—	0.1	µg/L	Y	—	U	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Molybdenum	Mo	N	2	—	—	2	µg/L	Y	U	U	190027	GF07070G05R301	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.13	3.03	10.8	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.34	2.77	9.27	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.52	2.9	11.3	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.738	2.4	7.4	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	15	12	41	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.37	—	—	0.5	µg/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.59	—	—	0.5	µg/L	Y	J	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.28	—	—	0.5	µg/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1	—	—	0.5	µg/L	Y	J	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.6	—	—	0.5	µg/L	Y	J	J	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.54	—	—	0.085	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2	—	—	0.085	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.9	—	—	0.085	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.98	—	—	0.05	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.2	—	—	0.05	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.24	—	—	0.1	µg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.23	—	—	0.1	µg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.3	—	—	0.1	µg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.25	—	—	0.1	µg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	1.2	—	—	0.1	µg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00889	0.0113	0.0446	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00417	0.0051	0.0186	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00232	0.0052	0.0156	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00767	0.0086	0.024	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00239	0.0063	0.038	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00667	0.00801	0.0398	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0104	0.00625	0.0279	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00465	0.00465	0.028	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00575	0.0064	0.036	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00239	0.0034	0.047	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.55	—	—	0.05	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.66	—	—	0.05	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.26	—	—	0.05	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.47	—	—	0.05	mg/L	Y	E	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.35	—	—	0.05	mg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.59	16.9	68.8	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-36.5	17.7	58.9	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-33	24	86.5	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-27.5	16	53	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.1	21	70	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.67	—	—	1.5	µg/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1	µg/L	Y	U	U	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.4	—	—	1	µg/L	Y	J	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	1	—	—	1	µg/L	Y	UN	R	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	50.4	—	—	0.053	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	51.8	—	—	0.053	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.9	—	—	0.053	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	50.2	—	—	0.053	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.8	—	—	0.053	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	21.1	—	—	0.1	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.7	—	—	0.1	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.3	—	—	0.1	mg/L	Y	*	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	21.4	—	—	0.045	mg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.3	—	—	0.045	mg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.23	1.37	5.3	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.531	1.27	4.74	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.65	1.9	6.54	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.93	1.3	2.9	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0672	1.5	5.1	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	244	—	—	3.63	µS/cm	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	254	—	—	1	µS/cm	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	258	—	—	1	µS/cm	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	263	—	—	1	µS/cm	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	260	—	—	1	µS/cm	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	191	—	—	1	µg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	206	—	—	1	µg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	190	—	—	1	µg/L	Y	*	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	199	—	—	1	µg/L	Y	—	NQ	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	193	—	—	1	µg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.271	0.126	0.479	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.137	0.139	0.489	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.035	0.0622	0.216	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.236	0.16	0.52	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.15	0.12	0.41	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18.1	—	—	0.133	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18.2	—	—	0.133	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.3	—	—	0.133	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.8	—	—	0.1	mg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.2	—	—	0.1	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	3.99	—	—	2.5	µg/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	13	µg/L	Y	U	U	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	13	µg/L	Y	U	U	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	13	µg/L	Y	U	U	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	Y	2.6	—	—	2.5	µg/L	Y	J	J	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	179	—	—	3.4	mg/L	Y	—	NQ	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	176	—	—	2.4	mg/L	Y	—	J	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	2.4	mg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.022	—	—	0.017	mg/L	Y	J	J	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	08/14/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.078	—	—	0.017	mg/L	Y	—	NQ	2013-1654	CALA-13-39208	GELC
R-5 S3	676.9	08/30/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0448	—	—	0.017	mg/L	Y	J	U	12-1526	CAPU-12-22844	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.015	mg/L	Y	U	U	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.644	0.668	2.295	—	pCi/L	Y	U	U	2015-2347	CALA-15-103988	ARSL
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.13	0.637	2.01	—	pCi/L	Y	U	U	2013-1707	CALA-13-39190	ARSL
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.696	0.658	2.162	—	pCi/L	Y	U	UJ	12-1528	CAPU-12-22841	ARSL

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-5 S3	676.9	03/10/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.4186	0.6118	1.9964	—	pCi/L	Y	U	U	11-1655	CAPU-11-5301	ARSL
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.7692	0.7728	1.9964	—	pCi/L	N	—	R	11-1655	CAPU-11-5301	ARSL
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0322	0.2898	0.2898	—	pCi/L	Y	U	U	09-2728	CAPU-09-11252	UMTL
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.9	—	—	0.067	µg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.71	—	—	0.067	µg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.8	—	—	0.05	µg/L	Y	—	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.9	—	—	0.05	µg/L	Y	—	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.7	—	—	0.05	µg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.11	0.0557	0.116	—	pCi/L	Y	—	NQ	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.944	0.0442	0.0439	—	pCi/L	Y	—	NQ	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.06	0.0515	0.0638	—	pCi/L	Y	—	NQ	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.939	0.084	0.058	—	pCi/L	Y	—	NQ	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.974	0.11	0.19	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0611	0.0152	0.0818	—	pCi/L	Y	U	U	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0175	0.0097	0.0269	—	pCi/L	Y	U	U	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0354	0.0132	0.0412	—	pCi/L	Y	U	U	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0339	0.011	0.037	—	pCi/L	Y	U	U	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0208	0.015	0.094	—	pCi/L	Y	U	U	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.585	0.0403	0.108	—	pCi/L	Y	—	NQ	2015-2331	CALA-15-103988	GELC
R-5 S3	676.9	08/14/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.516	0.0326	0.0381	—	pCi/L	Y	—	NQ	2013-1654	CALA-13-39190	GELC
R-5 S3	676.9	08/30/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.551	0.037	0.0323	—	pCi/L	Y	—	NQ	12-1526	CAPU-12-22841	GELC
R-5 S3	676.9	03/10/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.551	0.055	0.04	—	pCi/L	Y	—	NQ	11-1605	CAPU-11-5301	GELC
R-5 S3	676.9	07/22/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.518	0.068	0.094	—	pCi/L	Y	—	NQ	09-2726	CAPU-09-11252	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	9.74	—	—	1	µg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.2	—	—	1	µg/L	Y	—	NQ	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.2	—	—	1	µg/L	Y	—	NQ	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.1	—	—	1	µg/L	Y	—	J	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.4	—	—	1	µg/L	Y	—	NQ	190027	GF07070G05R301	GELC
R-5 S3	676.9	09/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	12.3	—	—	3.3	µg/L	Y	—	NQ	2015-2331	CALA-15-104010	GELC
R-5 S3	676.9	03/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-1605	CAPU-11-5303	GELC
R-5 S3	676.9	07/22/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.97	—	—	3.3	µg/L	Y	J	J	09-2726	CAPU-09-11249	GELC
R-5 S3	676.9	08/27/08	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	4.4	—	—	2	µg/L	Y	J	U	08-1794	CAPU-08-14803	GELC
R-5 S3	676.9	07/17/07	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	2	—	—	2	µg/L	Y	U	U	190027	GF07070G05R301	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.03	—	—	0.01	SU	Y	H	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68	—	—	0.725	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.2	—	—	0.725	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00204	0.00736	0.0328	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.027	0.00952	0.0349	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.88	—	—	1.7	µg/L	Y	J	J	2015-2324	CALA-15-104011	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	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-4547	CALA-14-86025	GELC
R-6	1205	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.96	—	—	1.7	µg/L	Y	J	J	12-1518	CALA-12-22828	GELC
R-6	1205	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.74	—	—	1.7	µg/L	Y	J	J	11-1673	CALA-11-5174	GELC
R-6	1205	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	18.3	—	—	1	µg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16.6	—	—	1	µg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	25.1	—	—	15	µg/L	Y	J	J	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.2	—	—	15	µg/L	Y	J	J	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	14.6	—	—	0.05	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.9	—	—	0.05	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.08	1.76	5.74	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.39	1.4	3.45	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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
R-6	1205	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.87	—	—	0.067	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0679	1.89	7.33	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.349	1.23	4.79	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.344	—	—	0.033	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.361	—	—	0.033	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.4	0.49	2.99	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.461	0.336	1.28	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.639	0.462	1.55	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.25	0.404	1.3	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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

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	09/09/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.3	—	—	0.453	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.7	—	—	0.453	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.07	—	—	0.11	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.51	—	—	0.11	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.8	—	—	0.165	µg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.61	—	—	0.165	µg/L	Y	—	NQ	2015-894	CALA-15-92875	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
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	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.7	3.79	12.2	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.57	2.6	9.71	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.54	—	—	0.5	µg/L	Y	J	J	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.216	—	—	0.017	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.277	—	—	0.017	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.281	—	—	0.05	µg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.277	—	—	0.05	µg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
R-6	1205	09/12/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	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	CIO4	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	CIO4	Y	0.306	—	—	0.05	µg/L	Y	—	NQ	2013-1542	CALA-13-39210	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00225	0.00503	0.0451	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0161	0.00856	0.038	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0135	0.011	0.0403	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.02E-09	0.00755	0.0492	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.26	—	—	0.05	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.11	—	—	0.05	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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

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	Potassium	K	Y	1.3	—	—	0.05	mg/L	Y	—	NQ	11-1673	CALA-11-5174	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-37.4	21.7	83.5	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.7	17.3	40.6	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80	—	—	0.053	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.1	—	—	0.053	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.47	—	—	0.1	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	8.86	—	—	0.1	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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
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	09/09/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.17	1.57	5.39	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.327	1.24	4.8	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	3.63	µS/cm	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	131	—	—	3.63	µS/cm	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	52.8	—	—	1	µg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	53.9	—	—	1	µg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.145	0.114	0.479	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00874	0.123	0.416	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.25	—	—	0.133	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.1	—	—	0.133	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	2015-894	CALA-15-92875	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	09/09/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.1	—	—	0.033	mg/L	Y	—	NQ	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.11	—	—	0.033	mg/L	Y	—	U	2015-894	CALA-15-92866	GELC
R-6	1205	09/12/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	2014-4547	CALA-14-86014	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	02/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2823	CALA-14-54393	GELC
R-6	1205	08/07/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	2013-1542	CALA-13-39192	GELC
R-6	1205	09/09/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	18.1	44.7	159	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	3.12	32.9	118	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.347	—	—	0.067	µg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.334	—	—	0.067	µg/L	Y	—	NQ	2015-894	CALA-15-92875	GELC
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	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.257	0.0276	0.102	—	pCi/L	Y	—	NQ	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.259	0.0249	0.0879	—	pCi/L	Y	—	NQ	2015-894	CALA-15-92866	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	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0359	0.0134	0.072	—	pCi/L	Y	U	U	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0253	0.00933	0.055	—	pCi/L	Y	U	U	2015-894	CALA-15-92866	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
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	09/09/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.126	0.0194	0.0947	—	pCi/L	Y	—	NQ	2015-2324	CALA-15-103989	GELC
R-6	1205	03/13/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.0172	0.0448	—	pCi/L	Y	—	J	2015-894	CALA-15-92866	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	09/09/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	9.67	—	—	1	µg/L	Y	—	NQ	2015-2324	CALA-15-104011	GELC
R-6	1205	03/13/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.76	—	—	1	µg/L	Y	—	NQ	2015-894	CALA-15-92875	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-64	1285	09/10/15	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	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.2	—	—	0.01	SU	Y	H	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.38	—	—	0.01	SU	Y	H	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.5	—	—	0.725	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.9	—	—	0.725	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.4	—	—	0.725	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00779	0.0335	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-2.37E-09	0.0113	0.0598	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00529	0.00529	0.0444	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.72	—	—	1.7	µg/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.76	—	—	1.7	µg/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	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	Arsenic	As	Y	1.7	—	—	1.7	µg/L	Y	J	J	2013-1672	CALA-13-39179	GELC
R-64	1285	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.5	—	—	1	µg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	12.6	—	—	1	µg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	12.5	—	—	1	µg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.54	—	—	0.05	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.16	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.23	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.195	2.21	6.03	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.83	1.96	5.26	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.26	1.07	3.59	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.32	—	—	0.067	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.32	—	—	0.067	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.35	—	—	0.067	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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
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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.11	—	—	2	µg/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.1	—	—	2	µg/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.03	—	—	2	µg/L	Y	J	J	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-4464	CALA-14-86026	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	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.6	1.47	6.1	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.13	1.63	5.05	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.915	1.02	3.62	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.307	—	—	0.033	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.319	—	—	0.033	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.132	0.632	2.95	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.993	0.38	1.2	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.722	0.298	0.941	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.504	0.636	2.21	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.238	0.361	1.24	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.11	0.53	1.73	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	09/10/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.1	—	—	0.453	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.5	—	—	0.453	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.7	—	—	0.453	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.74	—	—	0.11	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.58	—	—	0.11	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.58	—	—	0.11	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.38	2.6	9.54	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.86	3.25	10.7	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.44	2.2	7.49	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.139	—	—	0.017	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.164	—	—	0.017	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.178	—	—	0.017	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	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	09/10/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.198	—	—	0.05	µg/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.203	—	—	0.05	µg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.198	—	—	0.05	µg/L	Y	J	J	2015-889	CALA-15-92856	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	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00526	0.00632	0.0352	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00451	0.00432	0.0251	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00675	0.00673	0.0257	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00351	0.00496	0.0314	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00572	0.00705	0.0327	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00468	0.00655	0.0335	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	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	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	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.23	—	—	0.05	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.1	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.12	—	—	0.05	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-13	18.1	66.8	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	33.4	22.3	58.4	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	10.3	16.6	57.7	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	66	—	—	0.053	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.1	—	—	0.053	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.3	—	—	0.053	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	2015-889	CALA-15-92876	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	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.1	—	—	0.1	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.82	1.44	4.92	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.316	1.67	6.1	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.133	1.04	3.93	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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
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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	3.63	µS/cm	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	3.63	µS/cm	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	N	14.5	—	—	3.63	µS/cm	Y	U	U	2015-889	CALA-15-92856	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	48	—	—	1	µg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.9	—	—	1	µg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.6	—	—	1	µg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.157	0.118	0.492	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0266	0.133	0.478	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00586	0.139	0.485	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.56	—	—	0.133	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.55	—	—	0.133	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.56	—	—	0.133	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	40	—	—	3.4	mg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	58.6	—	—	3.4	mg/L	Y	—	NQ	2015-889	CALA-15-92856	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0327	—	—	0.017	mg/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0254	—	—	0.017	mg/L	Y	J	U	2015-889	CALA-15-92876	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	03/12/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0322	—	—	0.017	mg/L	Y	J	U	2015-889	CALA-15-92856	GELC
R-64	1285	09/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0367	—	—	0.017	mg/L	Y	J	U	2014-4464	CALA-14-86026	GELC
R-64	1285	02/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0547	—	—	0.017	mg/L	Y	—	U	2014-2833	CALA-14-54397	GELC
R-64	1285	08/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1672	CALA-13-39211	GELC
R-64	1285	08/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1672	CALA-13-39179	GELC
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.442	0.623	2.141	—	pCi/L	Y	U	U	2015-2347	CALA-15-103990	ARSL
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.68	0.93	3.11	—	pCi/L	Y	U	U	2015-888	CALA-15-92855	ARSL
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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.735	—	—	0.067	µg/L	Y	—	NQ	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.798	—	—	0.067	µg/L	Y	—	NQ	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.792	—	—	0.067	µg/L	Y	—	NQ	2015-889	CALA-15-92856	GELC
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
R-64	1285	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.626	0.0426	0.117	—	pCi/L	Y	—	NQ	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.635	0.0414	0.0989	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.599	0.0366	0.0815	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92855	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	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0413	0.0129	0.0828	—	pCi/L	Y	U	U	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0253	0.011	0.0619	—	pCi/L	Y	U	U	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0313	0.0117	0.051	—	pCi/L	Y	U	U	2015-889	CALA-15-92855	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	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.27	0.028	0.109	—	pCi/L	Y	—	NQ	2015-2328	CALA-15-103990	GELC
R-64	1285	03/12/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.328	0.0292	0.0504	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92867	GELC
R-64	1285	03/12/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.26	0.0238	0.0415	—	pCi/L	Y	—	NQ	2015-889	CALA-15-92855	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.48	—	—	1	µg/L	Y	J	J	2015-2328	CALA-15-104012	GELC
R-64	1285	03/12/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.83	—	—	1	µg/L	Y	J	J	2015-889	CALA-15-92876	GELC
R-64	1285	03/12/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.78	—	—	1	µg/L	Y	J	J	2015-889	CALA-15-92856	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-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	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	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	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	2015-467	CALA-15-90569	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	12/03/14	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	2015-467	CALA-15-90549	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	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	83.6	—	—	0.725	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	83.1	—	—	0.725	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.3	—	—	0.725	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.8	—	—	0.725	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00822	0.00872	0.033	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00884	0.00779	0.0495	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00943	0.00832	0.0656	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0022	0.00583	0.046	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	31.1	—	—	1	µg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.2	—	—	1	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	31	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.4	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	39.9	—	—	15	µg/L	Y	J	J	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	36.3	—	—	15	µg/L	Y	J	J	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	40.3	—	—	15	µg/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	41.6	—	—	15	µg/L	Y	J	J	2015-467	CALA-15-90549	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17.3	—	—	0.05	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.69	1.63	6.24	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0333	1.29	4.63	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.5	1.59	5.44	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.48	1.5	5.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	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	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.76	—	—	0.067	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.46	—	—	0.067	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.48	—	—	0.067	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.5	—	—	0.067	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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
R-66	819.4	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.91	—	—	2	µg/L	Y	J	J	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.1	—	—	2	µg/L	Y	J	J	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.25	—	—	2	µg/L	Y	J	J	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.28	—	—	2	µg/L	Y	J	J	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-4474	CALA-14-85997	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	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.62	1.8	7.76	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.828	1.11	4.48	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-3.27	1.33	3.78	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.09	1.74	6.05	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.284	—	—	0.033	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.27	—	—	0.033	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.289	—	—	0.033	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.278	—	—	0.033	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.67	0.827	2.98	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.07	0.392	1.39	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.728	0.786	2.77	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.106	0.567	2.43	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.35	0.371	1.17	—	pCi/L	Y	—	NQ	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.75	0.545	1.75	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.65	0.358	1.09	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.69	0.549	1.77	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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

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	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	09/14/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.2	—	—	0.453	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	63.9	—	—	0.453	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70.4	—	—	0.453	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.2	—	—	0.453	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.59	—	—	0.11	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5	—	—	0.11	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.67	—	—	0.11	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.11	—	—	0.11	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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
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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.47	—	—	0.165	µg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.44	—	—	0.165	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.51	—	—	0.165	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.23	3.48	12.6	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.88	2.36	8.99	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.62	2.85	10.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.02	2.87	10.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.654	—	—	0.017	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.641	—	—	0.017	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.646	—	—	0.017	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.648	—	—	0.017	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.49	—	—	0.05	µg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.486	—	—	0.05	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.464	—	—	0.05	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.472	—	—	0.05	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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

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	02/06/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	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	CIO4	Y	0.5	—	—	0.05	µg/L	Y	—	NQ	2014-2844	CALA-14-54389	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00214	0.00934	0.043	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00671	0.00592	0.0421	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00496	0.0271	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00214	0.00371	0.0287	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00643	0.00982	0.0383	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0134	0.00948	0.0545	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00405	0.00572	0.04	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00428	0.00741	0.0423	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.38	—	—	0.05	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.16	—	—	0.05	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.24	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.11	—	—	0.05	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15.1	20.5	72.9	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29	16.4	58.1	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.715	16.2	57	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	18.8	20.2	54.5	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80.7	—	—	0.053	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.3	—	—	0.053	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	80.8	—	—	0.053	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	77.9	—	—	0.053	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.6	—	—	0.1	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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

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	02/06/14	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	09/14/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.17	1.87	6.1	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.343	1.38	5.05	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.214	1.24	4.85	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.12	1.18	4.8	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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
R-66	819.4	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	174	—	—	1	µS/cm	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	178	—	—	3.63	µS/cm	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	3.63	µS/cm	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	3.63	µS/cm	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	80.6	—	—	1	µg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	77.3	—	—	1	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	81.6	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	78.8	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0641	0.121	0.49	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.156	0.141	0.482	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.013	0.132	0.482	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.156	0.145	0.49	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.52	—	—	0.133	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.31	—	—	0.133	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.32	—	—	0.133	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.35	—	—	0.133	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	2015-467	CALA-15-90549	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

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	09/14/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.017	—	—	0.017	mg/L	Y	J	J	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-467	CALA-15-90549	GELC
R-66	819.4	09/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4474	CALA-14-86027	GELC
R-66	819.4	09/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-4474	CALA-14-85997	GELC
R-66	819.4	02/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0262	—	—	0.017	mg/L	Y	J	U	2014-2844	CALA-14-54398	GELC
R-66	819.4	02/06/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0403	—	—	0.017	mg/L	Y	J	U	2014-2844	CALA-14-54389	GELC
R-66	819.4	09/14/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.931	0.782	2.337	—	pCi/L	Y	U	U	2015-2347	CALA-15-103991	ARSL
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.97	1.22	3.9	—	pCi/L	Y	U	U	2015-886	CALA-15-92868	ARSL
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.726	0.686	2.29	—	pCi/L	Y	U	U	2015-501	CALA-15-90560	ARSL
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.175	0.748	2.558	—	pCi/L	Y	U	U	2015-501	CALA-15-90548	ARSL
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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.628	—	—	0.067	µg/L	Y	—	NQ	2015-2334	CALA-15-104013	GELC
R-66	819.4	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.684	—	—	0.067	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.633	—	—	0.067	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.676	—	—	0.067	µg/L	Y	—	NQ	2015-467	CALA-15-90549	GELC
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	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.552	0.0406	0.123	—	pCi/L	Y	—	NQ	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.559	0.0379	0.0943	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.477	0.0339	0.0467	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.536	0.0347	0.0417	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90548	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	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0289	0.0125	0.0869	—	pCi/L	Y	U	U	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0302	0.0113	0.059	—	pCi/L	Y	U	U	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00846	0.00846	0.0407	—	pCi/L	Y	U	U	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0176	0.0104	0.0364	—	pCi/L	Y	U	U	2015-467	CALA-15-90548	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	09/14/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.234	0.0268	0.114	—	pCi/L	Y	—	NQ	2015-2334	CALA-15-103991	GELC
R-66	819.4	03/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.232	0.0243	0.048	—	pCi/L	Y	—	NQ	2015-882	CALA-15-92868	GELC
R-66	819.4	12/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.224	0.0235	0.0448	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90560	GELC
R-66	819.4	12/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.228	0.0225	0.04	—	pCi/L	Y	—	NQ	2015-467	CALA-15-90548	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	09/14/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.5	—	—	1	µg/L	Y	—	NQ	2015-2334	CALA-15-104013	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	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.3	—	—	1	µg/L	Y	—	NQ	2015-882	CALA-15-92877	GELC
R-66	819.4	12/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.9	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90569	GELC
R-66	819.4	12/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	12	—	—	1	µg/L	Y	—	NQ	2015-467	CALA-15-90549	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-6i	602	09/10/15	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	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.82	—	—	0.01	SU	Y	H	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.725	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.725	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0079	0.0079	0.0423	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00379	0.00464	0.0304	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.71	—	—	1.7	µg/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	1.91	—	—	1.7	µg/L	Y	J	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-4488	CALA-14-86028	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1673	CALA-11-5163	GELC
R-6i	602	08/19/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	8.17	—	—	1.5	µg/L	Y	—	U	10-4259	CALA-10-25227	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.4	—	—	1	µg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.5	—	—	1	µg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.1	—	—	15	µg/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	22.2	—	—	15	µg/L	Y	J	J	2015-2329	CALA-15-103957	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

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	08/27/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0766	—	—	0.067	mg/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0857	—	—	0.067	mg/L	Y	J	J	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-4488	CALA-14-86028	GELC
R-6i	602	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0729	—	—	0.067	mg/L	Y	J	J	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0762	—	—	0.067	mg/L	Y	J	J	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0903	—	—	0.067	mg/L	Y	J	J	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.122	—	—	0.066	mg/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.4	—	—	0.05	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.3	—	—	0.05	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.99	1.69	5.9	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.97	1.58	5.46	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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
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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.5	—	—	0.268	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.4	—	—	0.268	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.11	—	—	2	µg/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.21	—	—	2	µg/L	Y	J	J	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.8	1.55	5.75	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.44	1.59	5.74	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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

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	09/10/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	2.53	—	—	1.5	µg/L	Y	J	J	2015-2329	CALA-15-103992	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	2.31	—	—	1.65	µg/L	Y	J	J	2015-2329	CALA-15-103955	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	N	8.93	—	—	2.68	µg/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	10.5	—	—	3.16	µg/L	Y	U	U	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	10.5	—	—	3.16	µg/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	10.9	—	—	3.26	µg/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	10.5	—	—	3.16	µg/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	Y	3.46	—	—	2.2	µg/L	Y	J	J	11-1674	CALA-11-5165	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.754	—	—	0.033	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.745	—	—	0.033	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.0313	0.696	2.86	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.137	0.684	2.95	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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	09/10/15	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.25	0.725	2.19	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.73	0.774	2.61	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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	09/10/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73.2	—	—	0.453	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	72.8	—	—	0.453	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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
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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.17	—	—	0.11	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.14	—	—	0.11	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.69	—	—	0.165	µg/L	Y	—	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.57	—	—	0.165	µg/L	Y	—	J	2015-2329	CALA-15-103957	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

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-6i	602	08/27/12	WG	F	INIT	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	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.752	2.59	9.23	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.27	3.16	10.8	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.795	—	—	0.5	µg/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.843	—	—	0.5	µg/L	Y	J	J	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.33	—	—	0.085	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.47	—	—	0.085	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.76	—	—	0.5	µg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/10/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.72	—	—	0.5	µg/L	Y	—	J+	2015-2329	CALA-15-104014	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	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00399	0.00489	0.04	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00207	0.00686	0.0415	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00998	0.00719	0.0357	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00413	0.0109	0.037	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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
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

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: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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.671	—	—	0.05	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	0.683	—	—	0.05	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	16.3	15.4	63.2	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.78	17.7	65	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.2	—	—	0.053	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.8	—	—	0.053	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	19.8	—	—	0.1	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	19.6	—	—	0.1	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.913	1.23	5.01	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.58	1.77	5.29	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	228	—	—	3.63	µS/cm	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	223	—	—	3.63	µS/cm	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	95.7	—	—	1	µg/L	Y	—	NQ	2015-2329	CALA-15-104014	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	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	93.4	—	—	1	µg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.28	0.116	0.473	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0555	0.121	0.488	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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
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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.83	—	—	0.133	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.79	—	—	0.133	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	200	—	—	3.4	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187	—	—	3.4	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0804	—	—	0.033	mg/L	Y	J	J-	2015-2329	CALA-15-103992	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-4488	CALA-14-86017	GELC
R-6i	602	08/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.127	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39195	GELC
R-6i	602	08/12/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-1614	CALA-13-39176	GELC
R-6i	602	08/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1518	CALA-12-22822	GELC
R-6i	602	08/27/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1518	CALA-12-22801	GELC
R-6i	602	03/17/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	11-1673	CALA-11-5165	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.365	—	—	0.33	mg/L	Y	J	J	2015-2329	CALA-15-103992	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2015-2329	CALA-15-103955	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	09/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0739	—	—	0.017	mg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0558	—	—	0.017	mg/L	Y	—	NQ	2015-2329	CALA-15-103957	GELC
R-6i	602	09/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0793	—	—	0.017	mg/L	Y	—	U	2014-4488	CALA-14-86028	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	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0512	—	—	0.017	mg/L	Y	—	NQ	2013-1614	CALA-13-39213	GELC
R-6i	602	08/12/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.333	—	—	0.017	mg/L	Y	—	NQ	2013-1614	CALA-13-39178	GELC
R-6i	602	08/27/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.101	—	—	0.017	mg/L	Y	—	U	12-1518	CALA-12-22831	GELC
R-6i	602	08/27/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0821	—	—	0.017	mg/L	Y	—	U	12-1518	CALA-12-22803	GELC
R-6i	602	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.046	—	—	0.015	mg/L	Y	J	J	11-1673	CALA-11-5163	GELC
R-6i	602	09/10/15	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	2180	115	161	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	2250	117	161	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103992	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.443	—	—	0.067	µg/L	Y	—	NQ	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.423	—	—	0.067	µg/L	Y	—	NQ	2015-2329	CALA-15-103957	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	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.384	0.0328	0.115	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.424	0.0319	0.0951	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103992	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	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0135	0.00825	0.0811	—	pCi/L	Y	U	U	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.039	0.0131	0.0671	—	pCi/L	Y	U	U	2015-2329	CALA-15-103992	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
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	09/10/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.147	0.0211	0.107	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103955	GELC
R-6i	602	09/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.153	0.0199	0.0882	—	pCi/L	Y	—	NQ	2015-2329	CALA-15-103992	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	09/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.4	—	—	1	µg/L	Y	J	J	2015-2329	CALA-15-104014	GELC
R-6i	602	09/10/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.36	—	—	1	µg/L	Y	J	J	2015-2329	CALA-15-103957	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

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	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-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.21	—	—	0.01	SU	Y	H	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.3	—	—	0.01	SU	Y	H	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.24	—	—	0.01	SU	Y	H	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	J-	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.34	—	—	0.01	SU	Y	H	J-	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.1	—	—	0.725	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	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-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.7	—	—	0.725	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.8	—	—	0.73	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.2	—	—	0.73	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00231	0.00502	0.0221	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00762	0.00672	0.0213	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00673	0.00951	0.0465	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00968	0.0058	0.028	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.000294	0.013	0.044	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.59	—	—	1.7	µg/L	Y	J	J	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.6	—	—	1.7	µg/L	Y	J	J	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	7.39	—	—	1.5	µg/L	Y	—	U	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	23.1	—	—	1	µg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.7	—	—	1	µg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.8	—	—	1	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.8	—	—	1	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24	—	—	1	µg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.6	—	—	15	µg/L	Y	J	J	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.2	—	—	15	µg/L	Y	J	J	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.4	—	—	15	µg/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.2	—	—	15	µg/L	Y	J	J	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	16.3	—	—	0.05	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.5	—	—	0.05	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.7	—	—	0.05	mg/L	Y	—	J+	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.7	—	—	0.05	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.44	1.37	5.25	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.262	1.35	4.98	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.79	1.41	4.84	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.325	1.3	4	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.49	1.7	5.3	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.42	—	—	0.067	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.38	—	—	0.067	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.4	—	—	0.067	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.37	—	—	0.066	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.45	—	—	0.066	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.46	—	—	2	µg/L	Y	J	J	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-1614	CALA-13-39214	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.42	—	—	2	µg/L	Y	J	J	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.75	—	—	2.5	µg/L	Y	J	J	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.28	1.12	4.75	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.71	1.33	4.31	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.774	1.69	6.86	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.31	1.5	5.3	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.366	1.2	3.9	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.449	—	—	0.033	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.479	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.477	—	—	0.033	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.451	—	—	0.033	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.543	—	—	0.033	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.09	0.647	2.87	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.556	0.51	2.53	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.798	0.64	2.23	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.496	0.56	2.3	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0168	0.39	1.5	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.0211	0.826	2.84	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.14	1.04	2.95	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.41	0.874	2.37	—	pCi/L	Y	—	NQ	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.35	1	2.5	—	pCi/L	Y	—	NQ	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.952	0.83	2.8	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	51.7	—	—	0.453	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.9	—	—	0.453	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.1	—	—	0.453	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.1	—	—	0.45	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.5	—	—	0.35	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.65	—	—	0.11	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.83	—	—	0.11	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.66	—	—	0.11	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.55	—	—	0.11	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.62	—	—	0.085	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.6	—	—	0.165	µg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.8	—	—	0.165	µg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.66	—	—	0.165	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.52	—	—	0.17	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.47	—	—	0.1	µg/L	Y	—	J	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.03	2.82	10.3	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.49	2.62	8.75	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.88	2.88	11	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.46	2.4	7.3	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	16.7	11	39	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.531	—	—	0.5	µg/L	Y	J	J	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.784	—	—	0.5	µg/L	Y	J	J	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.666	—	—	0.5	µg/L	Y	J	J	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.519	—	—	0.017	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.511	—	—	0.017	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.587	—	—	0.017	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.468	—	—	0.05	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.158	—	—	0.01	mg/L	Y	—	U	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.318	—	—	0.05	µg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.322	—	—	0.05	µg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.328	—	—	0.05	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.344	—	—	0.05	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.302	—	—	0.05	µg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00411	0.00581	0.0319	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0207	0.0132	0.0481	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00455	0.0325	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00807	0.0045	0.025	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00185	0.0032	0.029	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00822	0.0065	0.0416	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00124	0.0116	0.0725	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00322	0.00558	0.0381	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00202	0.0029	0.038	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-2.2E-10	0.0026	0.036	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.97	—	—	0.05	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.05	—	—	0.05	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.99	—	—	0.05	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.04	—	—	0.05	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.02	—	—	0.05	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.98	18.6	65.4	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-10.4	18.4	66.1	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	12.6	20.2	83.3	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.8	18	66	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.58	15	50	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	58.1	—	—	0.053	mg/L	Y	—	J-	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	61.1	—	—	0.053	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58	—	—	0.053	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.6	—	—	0.053	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.3	—	—	0.053	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.05	—	—	0.1	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.73	—	—	0.1	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.06	—	—	0.1	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.33	—	—	0.1	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.55	1.04	4.72	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.418	1.32	5.12	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.44	1.64	5.47	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.11	1.3	3.8	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.31	1.5	5.5	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	12300	—	—	1	µS/cm	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	143	—	—	1	µS/cm	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	µS/cm	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	µS/cm	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	148	—	—	1	µS/cm	Y	—	NQ	09-2694	CALA-09-11172	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	86.6	—	—	1	µg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	91.7	—	—	1	µg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	88	—	—	1	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	88.8	—	—	1	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	99.4	—	—	1	µg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.244	0.148	0.49	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.166	0.127	0.482	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.028	0.1	0.339	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.379	0.16	0.51	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0758	0.11	0.37	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.39	—	—	0.133	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.39	—	—	0.133	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.3	—	—	0.133	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.42	—	—	0.1	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.31	—	—	0.1	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	125	—	—	2.4	mg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	2.4	mg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.065	—	—	0.033	mg/L	Y	J	J	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	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	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.061	—	—	0.033	mg/L	Y	J	J	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.432	0.511	1.478	—	pCi/L	Y	U	U	2016-9	CALA-15-103993	ARSL
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.511	0.664	2.015	—	pCi/L	Y	U	U	2013-1642	CALA-13-39196	ARSL
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.308	0.658	2.212	—	pCi/L	Y	U	U	12-1536	CALA-12-22895	ARSL
R-8 S1	705.31	03/16/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.2254	0.6762	2.3184	—	pCi/L	Y	U	U	11-1710	CALA-11-5178	ARSL
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.8032	0.7084	2.3184	—	pCi/L	N	U	R	11-1710	CALA-11-5178	ARSL
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.0644	0.2898	0.2898	—	pCi/L	Y	U	U	09-2699	CALA-09-11171	UMTL
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.297	—	—	0.067	µg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.302	—	—	0.067	µg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.277	—	—	0.067	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.261	—	—	0.067	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.219	—	—	0.05	µg/L	Y	—	U	09-2694	CALA-09-11172	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.217	0.0302	0.165	—	pCi/L	Y	—	NQ	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.195	0.0235	0.0544	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.102	0.0264	0.0853	—	pCi/L	Y	—	J	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.235	0.032	0.063	—	pCi/L	Y	—	NQ	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.185	0.038	0.18	—	pCi/L	Y	—	NQ	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0369	0.016	0.133	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00929	0.00929	0.0333	—	pCi/L	Y	U	U	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	1.3E-09	0.00955	0.0361	—	pCi/L	Y	U	U	12-1534	CALA-12-22895	GELC
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00363	0.0063	0.04	—	pCi/L	Y	U	U	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00327	0.0073	0.087	—	pCi/L	Y	U	U	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0965	0.0215	0.121	—	pCi/L	Y	U	U	2015-2374	CALA-15-103993	GELC
R-8 S1	705.31	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0927	0.0164	0.0472	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39196	GELC
R-8 S1	705.31	09/04/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0442	0.0161	0.0425	—	pCi/L	Y	—	J	12-1534	CALA-12-22895	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S1	705.31	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.117	0.021	0.043	—	pCi/L	Y	—	NQ	11-1668	CALA-11-5178	GELC
R-8 S1	705.31	07/20/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.027	0.088	—	pCi/L	Y	—	NQ	09-2694	CALA-09-11171	GELC
R-8 S1	705.31	09/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	13.8	—	—	1	µg/L	Y	—	NQ	2015-2374	CALA-15-104015	GELC
R-8 S1	705.31	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	14.1	—	—	1	µg/L	Y	—	NQ	2013-1614	CALA-13-39214	GELC
R-8 S1	705.31	09/04/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13.1	—	—	1	µg/L	Y	—	NQ	12-1534	CALA-12-22901	GELC
R-8 S1	705.31	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.9	—	—	1	µg/L	Y	—	NQ	11-1668	CALA-11-5179	GELC
R-8 S1	705.31	07/20/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	14.4	—	—	1	µg/L	Y	—	NQ	09-2694	CALA-09-11172	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.62	—	—	0.01	SU	Y	H	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.66	—	—	0.01	SU	Y	H	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	9.03	—	—	0.01	SU	Y	H	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.68	—	—	0.01	SU	Y	H	J-	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.57	—	—	0.01	SU	Y	H	J-	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	9.13	—	—	0.725	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	7.44	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	9.44	—	—	0.725	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	8.42	—	—	0.73	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	5.21	—	—	0.73	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.7	—	—	0.725	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	88.7	—	—	0.725	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	92.8	—	—	0.725	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	87.4	—	—	0.73	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	95.8	—	—	0.73	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00104	0.00609	0.02	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00902	0.00672	0.0252	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00598	0.00598	0.0275	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00657	0.0047	0.023	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0235	0.0096	0.03	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.38	—	—	1.7	µg/L	Y	J	J	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.73	—	—	1.7	µg/L	Y	J	J	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.51	—	—	1.7	µg/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.75	—	—	1.7	µg/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	4.28	—	—	1.5	µg/L	Y	J	U	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	194	—	—	1	µg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	192	—	—	1	µg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	198	—	—	1	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	164	—	—	1	µg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	183	—	—	1	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	35.4	—	—	15	µg/L	Y	J	J	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	32.5	—	—	15	µg/L	Y	J	J	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	31.8	—	—	15	µg/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	34.8	—	—	15	µg/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	36.8	—	—	15	µg/L	Y	J	J	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17.5	—	—	0.05	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.2	—	—	0.05	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.2	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.6	—	—	0.05	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.401	1.15	4.37	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.01	1.16	4.8	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.2	1.18	4.63	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.02	1.8	5.3	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.269	1.1	3.8	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.53	—	—	0.067	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.69	—	—	0.067	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.48	—	—	0.067	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.57	—	—	0.066	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.09	—	—	0.066	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.75	—	—	2	µg/L	Y	J	J	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.2	—	—	2	µg/L	Y	J	J	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.86	—	—	2	µg/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.03	—	—	2	µg/L	Y	J	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.79	—	—	2.5	µg/L	Y	J	J	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.73	1.27	5.39	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.432	1.33	4.99	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.22	1.23	5.31	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.16	1.7	6.6	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.33	1.1	3.5	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.356	—	—	0.033	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.377	—	—	0.033	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.361	—	—	0.033	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.351	—	—	0.033	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.547	—	—	0.033	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0421	0.724	2.89	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.697	0.536	2.75	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.428	0.711	2.84	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.36	0.99	2.5	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.634	0.37	2.9	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.84	0.68	1.85	—	pCi/L	Y	—	NQ	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.95	0.884	2.82	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.15	0.78	1.99	—	pCi/L	Y	—	NQ	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.42	0.83	2.3	—	pCi/L	Y	—	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.8	0.87	2.4	—	pCi/L	Y	—	NQ	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.4	—	—	0.453	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.2	—	—	0.453	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.1	—	—	0.453	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.1	—	—	0.45	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.3	—	—	0.35	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.99	—	—	0.11	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.15	—	—	0.11	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.02	—	—	0.11	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.76	—	—	0.11	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.96	—	—	0.085	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.29	—	—	0.165	µg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.165	µg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13	—	—	0.165	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.19	—	—	0.17	µg/L	Y	—	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.33	—	—	0.1	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.9	2.52	9.09	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.32	2.54	8.74	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.05	2.59	9.87	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.18	3.2	11	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.86	11	35	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.476	—	—	0.017	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.49	—	—	0.017	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.482	—	—	0.017	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.565	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.102	—	—	0.01	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.424	—	—	0.05	µg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.443	—	—	0.05	µg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.423	—	—	0.05	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.431	—	—	0.05	µg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.423	—	—	0.05	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00313	0.00532	0.0192	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00272	0.0153	0.0487	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00254	0.00439	0.0256	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00678	0.0039	0.028	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0133	0.0089	0.035	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00625	0.00759	0.0252	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0236	0.0186	0.0734	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00254	0.00567	0.03	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00226	0.0039	0.042	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0089	0.0089	0.044	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.19	—	—	0.05	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.12	—	—	0.05	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.7	—	—	0.05	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.06	—	—	0.05	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.14	—	—	0.05	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.39	17.8	66.3	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.877	17.8	68.5	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.4	19.5	74.3	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.5	22	69	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.5	16	54	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	76.8	—	—	0.053	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.6	—	—	0.053	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.4	—	—	0.053	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.4	—	—	0.053	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73	—	—	0.053	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	16.1	—	—	0.1	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.5	—	—	0.1	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	17	—	—	0.1	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.9	—	—	0.1	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.9	—	—	0.1	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.676	1.49	5.19	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.12	1.21	5.35	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.168	0.993	4.15	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.405	1.7	5.3	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.284	1.2	4.1	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	214	—	—	1	µS/cm	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	189	—	—	1	µS/cm	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	181	—	—	1	µS/cm	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	194	—	—	1	µS/cm	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	209	—	—	1	µS/cm	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	138	—	—	1	µg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	153	—	—	1	µg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	175	—	—	1	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	144	—	—	1	µg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	164	—	—	1	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.318	0.106	0.489	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.148	0.13	0.497	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.049	0.139	0.468	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.144	0.15	0.51	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	RE	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0433	0.13	0.47	—	pCi/L	N	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	1.36	0.18	0.35	—	pCi/L	Y	—	NQ	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.04	—	—	0.133	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.19	—	—	0.133	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.74	—	—	0.133	mg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.19	—	—	0.1	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.35	—	—	0.1	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	191	—	—	3.4	mg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170	—	—	3.4	mg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107	—	—	3.4	mg/L	Y	—	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	2.4	mg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	180	—	—	2.4	mg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0675	—	—	0.033	mg/L	Y	J	J	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	09-2595	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.467	0.635	2.117	—	pCi/L	Y	U	U	2016-9	CALA-15-103994	ARSL
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.659	0.666	1.986	—	pCi/L	Y	U	U	2013-1642	CALA-13-39197	ARSL
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.565	0.715	2.191	—	pCi/L	Y	U	U	12-1538	CALA-12-22896	ARSL
R-8 S2	821	03/16/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.4186	0.5796	1.8998	—	pCi/L	Y	U	U	11-1710	CALA-11-5183	ARSL
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.4812	0.5796	1.8998	—	pCi/L	N	U	R	11-1710	CALA-11-5183	ARSL
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.0644	0.2898	0.2898	—	pCi/L	Y	U	U	09-2606	CALA-09-11176	UMTL
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.705	—	—	0.067	µg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.811	—	—	0.067	µg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.684	—	—	0.067	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.659	—	—	0.067	µg/L	Y	—	NQ	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.784	—	—	0.05	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.624	0.0464	0.137	—	pCi/L	Y	—	NQ	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.481	0.036	0.0555	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.448	0.0356	0.0624	—	pCi/L	Y	—	NQ	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.567	0.055	0.052	—	pCi/L	Y	—	NQ	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.591	0.057	0.096	—	pCi/L	Y	—	NQ	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0589	0.0166	0.111	—	pCi/L	Y	U	U	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0126	0.01	0.034	—	pCi/L	Y	U	U	2013-1614	CALA-13-39197	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0228	0.0107	0.0264	—	pCi/L	Y	U	U	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.015	0.008	0.033	—	pCi/L	Y	U	U	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0247	0.011	0.047	—	pCi/L	Y	U	U	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.278	0.0315	0.101	—	pCi/L	Y	—	NQ	2015-2376	CALA-15-103994	GELC
R-8 S2	821	08/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.24	0.0251	0.0482	—	pCi/L	Y	—	NQ	2013-1614	CALA-13-39197	GELC
R-8 S2	821	09/05/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.192	0.0223	0.0311	—	pCi/L	Y	—	NQ	12-1540	CALA-12-22896	GELC
R-8 S2	821	03/16/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.235	0.03	0.035	—	pCi/L	Y	—	NQ	11-1695	CALA-11-5183	GELC
R-8 S2	821	07/09/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.238	0.03	0.047	—	pCi/L	Y	—	NQ	09-2594	CALA-09-11176	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.2	—	—	1	µg/L	Y	—	NQ	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	11.1	—	—	1	µg/L	Y	—	NQ	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.5	—	—	1	µg/L	Y	—	NQ	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.6	—	—	1	µg/L	Y	—	J	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.8	—	—	1	µg/L	Y	—	NQ	09-2595	CALA-09-11178	GELC
R-8 S2	821	09/25/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.34	—	—	3.3	µg/L	Y	J	J	2015-2376	CALA-15-104016	GELC
R-8 S2	821	08/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.63	—	—	3.3	µg/L	Y	J	J	2013-1614	CALA-13-39215	GELC
R-8 S2	821	09/05/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.49	—	—	3.3	µg/L	Y	J	J	12-1540	CALA-12-22902	GELC
R-8 S2	821	03/16/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-1695	CALA-11-5182	GELC
R-8 S2	821	07/09/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.96	—	—	3.3	µg/L	Y	J	J	09-2595	CALA-09-11178	GELC
R-9	683	09/16/15	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	2015-2345	CALA-15-104017	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	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	109	—	—	0.725	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00255	0.00845	0.041	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.03	—	—	1.7	µg/L	Y	J	J	2015-2345	CALA-15-104017	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	176	—	—	1	µg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	49.7	—	—	15	µg/L	Y	J	J	2015-2345	CALA-15-104017	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	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0785	—	—	0.067	mg/L	Y	J	J	2015-2345	CALA-15-104017	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	09/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-4492	CALA-14-86029	GELC
R-9	683	08/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-1525	CALA-13-39216	GELC
R-9	683	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1543	CALA-12-22903	GELC
R-9	683	03/07/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0711	—	—	0.066	mg/L	Y	J	J	11-1545	CALA-11-5175	GELC
R-9	683	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.5	—	—	0.05	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.14	1.75	6.48	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.77	—	—	0.067	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.31	—	—	2	µg/L	Y	J	J	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0085	1.18	4.68	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.26	—	—	0.033	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.1	0.967	2.91	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.53	0.429	1.24	—	pCi/L	Y	—	NQ	2015-2345	CALA-15-103995	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
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	09/16/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.8	—	—	0.453	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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

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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.95	—	—	0.11	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.38	—	—	0.165	µg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.76	2.77	9.6	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.83	—	—	0.085	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.05	—	—	0.1	µg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00479	0.00757	0.048	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00239	0.00987	0.0429	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.92	—	—	0.05	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.8	15.9	59.4	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	75	—	—	0.053	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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

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	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	18	—	—	0.1	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.17	1.37	5.66	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	240	—	—	1	µS/cm	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	183	—	—	1	µg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.19	0.116	0.487	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.46	—	—	0.133	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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
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	09/16/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	210	—	—	3.4	mg/L	Y	—	NQ	2015-2345	CALA-15-104017	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	09/16/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0336	—	—	0.033	mg/L	Y	J	J	2015-2345	CALA-15-103995	GELC
R-9	683	09/05/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-4492	CALA-14-86018	GELC
R-9	683	08/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0401	—	—	0.033	mg/L	Y	J	J	2013-1525	CALA-13-39198	GELC
R-9	683	09/06/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1543	CALA-12-22897	GELC
R-9	683	03/07/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	11-1545	CALA-11-5176	GELC
R-9	683	09/16/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	-11	43.3	160	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	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	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.71	—	—	0.067	µg/L	Y	—	NQ	2015-2345	CALA-15-104017	GELC
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

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9	683	08/06/13	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	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.18	0.0606	0.127	—	pCi/L	Y	—	NQ	2015-2345	CALA-15-103995	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	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.052	0.0148	0.0894	—	pCi/L	Y	U	U	2015-2345	CALA-15-103995	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	09/16/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.576	0.0422	0.117	—	pCi/L	Y	—	NQ	2015-2345	CALA-15-103995	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	09/16/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.9	—	—	1	µg/L	Y	—	NQ	2015-2345	CALA-15-104017	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
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.81	—	—	0.01	SU	Y	H	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.73	—	—	0.01	SU	Y	H	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.64	—	—	0.01	SU	Y	H	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.69	—	—	0.01	SU	Y	H	J-	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	J-	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	74.9	—	—	0.725	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.7	—	—	0.725	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.6	—	—	0.725	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59	—	—	0.73	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62	—	—	0.73	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	140	—	—	68	µg/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	71.2	—	—	68	µg/L	Y	J	J	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0144	0.00674	0.029	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00706	0.00706	0.0197	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00805	0.00636	0.0278	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00578	0.0051	0.027	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0000982	0.0017	0.035	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	53	—	—	1	µg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	60	—	—	1	µg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	53.2	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	60.4	—	—	1	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	41.4	—	—	1	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	23.7	—	—	15	µg/L	Y	J	J	2015-2363	CALA-15-104018	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	20.8	—	—	15	µg/L	Y	J	J	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	19.9	—	—	15	µg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.4	—	—	15	µg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	24.2	—	—	15	µg/L	Y	J	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.134	—	—	0.067	mg/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.125	—	—	0.067	mg/L	Y	J	J	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.152	—	—	0.067	mg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.147	—	—	0.066	mg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.181	—	—	0.066	mg/L	Y	J	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	23.5	—	—	0.05	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.2	—	—	0.05	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.9	—	—	0.05	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.1	—	—	0.05	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.1	—	—	0.05	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.04	1.18	4.86	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.59	1.33	5.52	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.903	1.62	5.65	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.023	1.4	4.8	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.45	0.93	2.8	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39.1	—	—	0.67	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39.2	—	—	0.67	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	40.5	—	—	0.335	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	39.6	—	—	0.66	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	42.2	—	—	0.33	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.32	1.19	5.02	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-4.72	1.83	5.18	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.54	1.81	7.68	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.126	1.4	4.7	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.261	1	3.4	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.17	—	—	3	µg/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	8.73	—	—	3	µg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	3.81	—	—	3	µg/L	Y	J	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.377	—	—	0.033	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.425	—	—	0.033	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.331	—	—	0.033	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.325	—	—	0.033	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.331	—	—	0.033	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.304	0.731	2.97	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.76	0.952	2.99	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.46	0.739	2.07	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0579	0.62	2.9	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.57	1.1	2.8	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.42	0.803	2.31	—	pCi/L	Y	—	NQ	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.92	1	2.78	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.24	0.868	2.55	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.74	1.1	2.5	—	pCi/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.25	0.69	2.2	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	94.7	—	—	0.453	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	96.9	—	—	0.453	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	87	—	—	0.453	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.8	—	—	0.45	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	83.2	—	—	0.35	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.72	—	—	0.11	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.84	—	—	0.11	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.85	—	—	0.11	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.66	—	—	0.11	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.41	—	—	0.085	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	9.49	—	—	2	µg/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	251	—	—	2	µg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	215	—	—	2	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	160	—	—	2	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	41	—	—	2	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	8.09	—	—	0.165	µg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	9.45	—	—	0.165	µg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	8.56	—	—	0.165	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	11	—	—	0.17	µg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	11	—	—	0.1	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0336	2.2	7.82	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.11	2.48	9.34	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.76	2.65	8.46	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.13	3.2	11	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.29	2	6.8	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	141	—	—	2.5	µg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	74.7	—	—	0.5	µg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	93.8	—	—	0.5	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	117	—	—	0.5	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	123	—	—	2.5	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.218	—	—	0.017	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0207	—	—	0.017	mg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.05	mg/L	Y	U	U	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.096	—	—	0.05	mg/L	Y	J	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.208	—	—	0.05	µg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	N	0.2	—	—	0.05	µg/L	Y	U	U	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	N	0.2	—	—	0.05	µg/L	Y	U	U	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	N	0.2	—	—	0.05	µg/L	Y	U	U	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.243	—	—	0.05	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00331	0.00597	0.0397	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0109	0.0488	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00355	0.0253	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00547	0.0032	0.023	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00196	0.0034	0.017	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00166	0.00702	0.0353	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00545	0.0122	0.0731	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00251	0.00561	0.0297	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00182	0.0041	0.034	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00196	0.0052	0.029	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.84	—	—	0.05	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.77	—	—	0.05	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.45	—	—	0.05	mg/L	Y	E	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.48	—	—	0.05	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.53	—	—	0.05	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-40.9	15.4	48	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15	19.5	76.8	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	60.5	21.7	99.1	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.85	24	73	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.7	15	52	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	34.3	—	—	0.053	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	34.7	—	—	0.053	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	32.2	—	—	0.053	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	31.3	—	—	0.053	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	30.9	—	—	0.053	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	23.2	—	—	0.1	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.4	—	—	0.1	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.1	—	—	0.1	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.3	—	—	0.1	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.8	—	—	0.1	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.21	1.27	4.44	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0753	1.54	6.08	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.81	1.98	6.74	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0468	1.5	4.9	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.869	0.97	3	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	275	—	—	1	µS/cm	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	306	—	—	1	µS/cm	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	310	—	—	1	µS/cm	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	301	—	—	1	µS/cm	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	308	—	—	1	µS/cm	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	128	—	—	1	µg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	141	—	—	1	µg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	133	—	—	1	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	130	—	—	1	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	126	—	—	1	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0553	0.125	0.485	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.000708	0.137	0.496	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.014	0.119	0.43	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.275	0.15	0.49	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0254	0.14	0.49	—	pCi/L	Y	U	U	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.4	—	—	0.133	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	14.8	—	—	0.133	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13.5	—	—	0.133	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13	—	—	0.1	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	3.41	—	—	2.5	µg/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	12-1543	CALA-12-22904	GELC

Table C-2 TA-21 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Analyte Code	Detect Flag	Result	1-sigma TPU	MDA	MDL	Unit	Best Value Flag	Lab Qual	2nd Qual	Request	Sample	Lab
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	187	—	—	3.4	mg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	164	—	—	3.4	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	182	—	—	2.4	mg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	2.4	mg/L	Y	—	J	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0942	—	—	0.033	mg/L	Y	J	J	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0887	—	—	0.033	mg/L	Y	J	J	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.103	—	—	0.033	mg/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.17	—	—	0.33	mg/L	Y	—	NQ	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.72	—	—	0.33	mg/L	Y	—	NQ	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.26	—	—	0.33	mg/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.05	—	—	0.33	mg/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.67	—	—	0.33	mg/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0404	—	—	0.017	mg/L	Y	J	J	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0615	—	—	0.017	mg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0451	—	—	0.017	mg/L	Y	J	U	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0342	—	—	0.015	mg/L	Y	J	U	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.09	—	—	0.015	mg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.3	—	—	0.067	µg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.07	—	—	0.067	µg/L	Y	—	NQ	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.955	—	—	0.067	µg/L	Y	—	NQ	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.07	—	—	0.067	µg/L	Y	—	NQ	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.37	—	—	0.05	µg/L	Y	—	NQ	10-4306	CALA-10-25200	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.57	0.0417	0.125	—	pCi/L	Y	—	NQ	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.367	0.0294	0.048	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.366	0.0301	0.0597	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.452	0.045	0.046	—	pCi/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.584	0.05	0.044	—	pCi/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0548	0.0151	0.088	—	pCi/L	Y	U	U	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0109	0.00948	0.0294	—	pCi/L	Y	U	U	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0245	0.00983	0.0253	—	pCi/L	Y	U	U	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0134	0.0081	0.03	—	pCi/L	Y	U	U	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0322	0.0086	0.021	—	pCi/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.467	0.0374	0.116	—	pCi/L	Y	—	NQ	2015-2363	CALA-15-103996	GELC
R-9i S1	189.1	08/08/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.288	0.0256	0.0417	—	pCi/L	Y	—	NQ	2013-1580	CALA-13-39199	GELC
R-9i S1	189.1	09/06/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.313	0.0268	0.0297	—	pCi/L	Y	—	NQ	12-1543	CALA-12-22898	GELC
R-9i S1	189.1	03/17/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.341	0.036	0.031	—	pCi/L	Y	—	NQ	11-1696	CALA-11-5106	GELC
R-9i S1	189.1	08/23/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.394	0.037	0.027	—	pCi/L	Y	—	NQ	10-4306	CALA-10-25201	GELC
R-9i S1	189.1	09/21/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	15.2	—	—	3.3	µg/L	Y	—	NQ	2015-2363	CALA-15-104018	GELC
R-9i S1	189.1	08/08/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7	—	—	3.3	µg/L	Y	J	J	2013-1580	CALA-13-39217	GELC
R-9i S1	189.1	09/06/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.9	—	—	3.3	µg/L	Y	J	J	12-1543	CALA-12-22904	GELC
R-9i S1	189.1	03/17/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.32	—	—	3.3	µg/L	Y	J	J	11-1696	CALA-11-5107	GELC
R-9i S1	189.1	08/23/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-4306	CALA-10-25200	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.28	—	—	0.01	SU	Y	H	NQ	2015-2314	CALA-15-104019	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

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	08/09/13	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	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	98	—	—	0.725	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0081	0.00641	0.0326	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00182	0.0032	0.026	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0059	0.027	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	41.9	—	—	1	µg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	30.7	—	—	15	µg/L	Y	J	J	2015-2314	CALA-15-104019	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	FD	INORGANIC	SW-846:6010B	Boron	B	Y	29.4	—	—	15	µg/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	28.7	—	—	15	µg/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.8	—	—	15	µg/L	Y	J	J	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	27.4	—	—	15	µg/L	Y	J	J	10-4359	CALA-10-25209	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.81	—	—	0.067	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	40	—	—	0.05	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	36.1	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	34.7	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0228	1.07	3.94	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.03	1.3	3.9	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.946	1.6	5.2	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC

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	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	38.1	—	—	0.335	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.539	1.01	3.93	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.123	—	—	0.033	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	09/08/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0877	0.673	2.95	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.01	0.66	2	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.11	0.75	2.2	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.66	0.884	2.32	—	pCi/L	Y	—	NQ	2015-2314	CALA-15-103997	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	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.86	1	2.8	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.89	0.96	2.3	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	134	—	—	0.453	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	121	—	—	0.35	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	117	—	—	0.35	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.3	—	—	0.11	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	3.56	—	—	2	µg/L	Y	J	J	2015-2314	CALA-15-104019	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

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	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	6.67	—	—	2	µg/L	Y	J	J	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	7.43	—	—	2	µg/L	Y	J	J	10-4359	CALA-10-25208	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	160	—	—	0.33	µg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.17	2.54	8.61	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.835	2.9	9.6	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.44	3.4	10	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	15.7	—	—	0.5	µg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.04	—	—	0.017	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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
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	09/08/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.604	—	—	0.05	µg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.655	—	—	0.05	µg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.632	—	—	0.05	µg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00198	0.00713	0.0396	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00233	0.009	0.029	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00207	0.0046	0.026	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00395	0.00739	0.0354	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00233	0.0052	0.043	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0062	0.0041	0.039	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.52	—	—	0.05	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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

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	Potassium	K	Y	5	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	5.21	—	—	0.05	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	5.38	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.18	—	—	0.05	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	18.7	15.3	40	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-4.33	19	67	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.6	23	68	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	2.25	—	—	1.5	µg/L	Y	J	J	2015-2314	CALA-15-104019	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	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	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	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	61.5	—	—	0.053	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.4	—	—	0.053	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.4	—	—	0.053	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	15.2	—	—	0.1	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	16.5	—	—	0.1	mg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.35	1.21	4.66	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.587	1.1	3.9	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.46	1.8	6.1	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	348	—	—	3.63	µS/cm	Y	—	NQ	2015-2314	CALA-15-104019	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	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	339	—	—	1	µS/cm	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	339	—	—	1	µS/cm	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	180	—	—	1	µg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	200	—	—	1	µg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	191	—	—	1	µg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	194	—	—	1	µg/L	Y	—	NQ	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	203	—	—	1	µg/L	Y	—	NQ	10-4359	CALA-10-25209	GELC

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	09/08/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.169	0.12	0.478	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0173	0.14	0.49	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.165	0.15	0.5	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20.2	—	—	0.665	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	3.05	—	—	2.5	µg/L	Y	J	J	2015-2314	CALA-15-104019	GELC
TA-53i	600	09/10/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2014-4529	CALA-14-86030	GELC
TA-53i	600	08/27/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1519	CALA-12-22832	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	11-1698	CALA-11-5167	GELC
TA-53i	600	03/18/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	11-1698	CALA-11-5169	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	13	µg/L	Y	U	U	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	13	µg/L	Y	U	U	10-4359	CALA-10-25209	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	217	—	—	3.4	mg/L	Y	—	NQ	2015-2314	CALA-15-104019	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
TA-53i	600	03/18/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	240	—	—	2.4	mg/L	Y	—	NQ	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	240	—	—	2.4	mg/L	Y	—	NQ	11-1698	CALA-11-5167	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.143	—	—	0.033	mg/L	Y	—	NQ	2015-2314	CALA-15-103997	GELC
TA-53i	600	09/10/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.101	—	—	0.033	mg/L	Y	—	U	2014-4529	CALA-14-86019	GELC
TA-53i	600	08/09/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.823	—	—	0.033	mg/L	Y	—	NQ	2013-1581	CALA-13-39201	GELC
TA-53i	600	08/27/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0642	—	—	0.035	mg/L	Y	J	J	12-1519	CALA-12-22823	GELC
TA-53i	600	03/18/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0893	—	—	0.035	mg/L	Y	J	J	11-1698	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.132	—	—	0.033	mg/L	Y	—	NQ	11-1698	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.12	—	—	0.33	mg/L	Y	—	NQ	2015-2314	CALA-15-103997	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	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	12.7	—	—	0.33	mg/L	Y	—	NQ	11-1698	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.14	—	—	0.33	mg/L	Y	—	NQ	11-1698	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	124	50.5	159	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	EPA:906.0	Tritium	H-3	Y	366	73	190	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	310	69	190	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.13	—	—	0.067	µg/L	Y	—	NQ	2015-2314	CALA-15-104019	GELC
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

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	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	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.871	0.0411	0.08	—	pCi/L	Y	—	NQ	2015-2314	CALA-15-103997	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	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.715	0.066	0.052	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.717	0.063	0.043	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0351	0.00965	0.0564	—	pCi/L	Y	U	U	2015-2314	CALA-15-103997	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	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0241	0.0087	0.033	—	pCi/L	Y	U	U	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0126	0.0067	0.028	—	pCi/L	Y	U	U	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.347	0.0262	0.0741	—	pCi/L	Y	—	NQ	2015-2314	CALA-15-103997	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	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.278	0.033	0.035	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5170	GELC
TA-53i	600	03/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.267	0.03	0.03	—	pCi/L	Y	—	NQ	11-1697	CALA-11-5168	GELC
TA-53i	600	09/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.93	—	—	3.3	µg/L	Y	J	J	2015-2314	CALA-15-104019	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	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.36	—	—	3.3	µg/L	Y	J	J	11-1698	CALA-11-5169	GELC
TA-53i	600	03/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.84	—	—	3.3	µg/L	Y	J	J	11-1698	CALA-11-5167	GELC
TA-53i	600	08/25/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.44	—	—	3.3	µg/L	Y	J	J	10-4359	CALA-10-25208	GELC
TA-53i	600	08/25/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	10-4359	CALA-10-25209	GELC

Appendix D

Groundwater Results Greater Than Half of Screening Levels

Zone	Location	Screen Top Depth (ft)	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Prep Code	Analysis Type Code	Field Quality Control Code	Detect Flag	Report Result	Method Detection Limit	Unit	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason	Best Value Flag	Analytical Method	Lab ID	Screening Level	Reporting Level Code	Result/Screening Level
Intermediate	LAOI-3.2	153.3	09/18/15	LCMS/MS ^a Perchlorate	Perchlorate	CIO4	F ^b	INIT ^c	REG ^d	Y ^e	4.75	0.5	µg/L	10	— ^f	NQ ^g	NQ	Y	SW-846:6850	GELC ^h	4	Consent Order	1.19
Intermediate	LAOI-3.2a	181.4	09/17/15	LCMS/MS Perchlorate	Perchlorate	CIO4	F	INIT	REG	Y	2.27	0.25	µg/L	5	—	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	0.57
Intermediate	R-5 S2	372.8	09/10/15	General Chemistry	Fluoride	F(-1)	F	INIT	REG	Y	1.08	0.033	mg/L	1	—	NQ	NQ	Y	EPA:300.0	GELC	1.6	NMWQCC GW STD ⁱ	0.68
Intermediate	R-6i	602	09/10/15	SVOC ^j	Dioxane[1,4-]	123-91-1	UF ^k	INIT	FD ^l	Y	2.31	1.65	µg/L	1	J ^m	J ⁿ	J_LAB ^o	Y	SW-846:8270D	GELC	4.6	EPA TAP SCRNLVL ^p	0.50
Intermediate	R-6i	602	09/10/15	SVOC	Dioxane[1,4-]	123-91-1	UF	INIT	REG	Y	2.53	1.5	µg/L	1	J	J	J_LAB	Y	SW-846:8270D	GELC	4.6	EPA TAP SCRNLVL	0.55
Intermediate	R-6i	602	09/10/15	LCMS/MS Perchlorate	Perchlorate	CIO4	F	INIT	FD	Y	5.76	0.5	µg/L	10	—	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.44
Intermediate	R-6i	602	09/10/15	LCMS/MS Perchlorate	Perchlorate	CIO4	F	INIT	REG	Y	5.72	0.5	µg/L	10	—	J+ ^q	PE12f ^r	Y	SW-846:6850	GELC	4	Consent Order	1.43
Intermediate	R-9i S1	189.1	09/21/15	Inorganic	Nickel	Ni	F	INIT	REG	Y	141	2.5	µg/L	5	—	NQ	NQ	Y	SW-846:6020	GELC	200	NMWQCC GW STD	0.71

^a LCMS/MS = Liquid chromatography mass spectrometry/mass spectrometry.

^b F = Filtered.

^c INIT = Initial.

^d REG = Regular.

^e Y = Yes.

^f — = None.

^g NQ = Not qualified.

^h GELC = General Engineering Laboratories, Inc., Charleston, SC.

ⁱ NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.

^j SVOC = Semivolatile organic compound.

^k UF = Unfiltered.

^l FD = Field duplicate.

^m In this column, J = The associated numerical value is an estimated quantity.

ⁿ In this column, J = The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.

^o J_LAB = The analytical laboratory qualified the detected result as estimated (J) because the result was less than the practical quantitation limit but greater than the method detection limit.

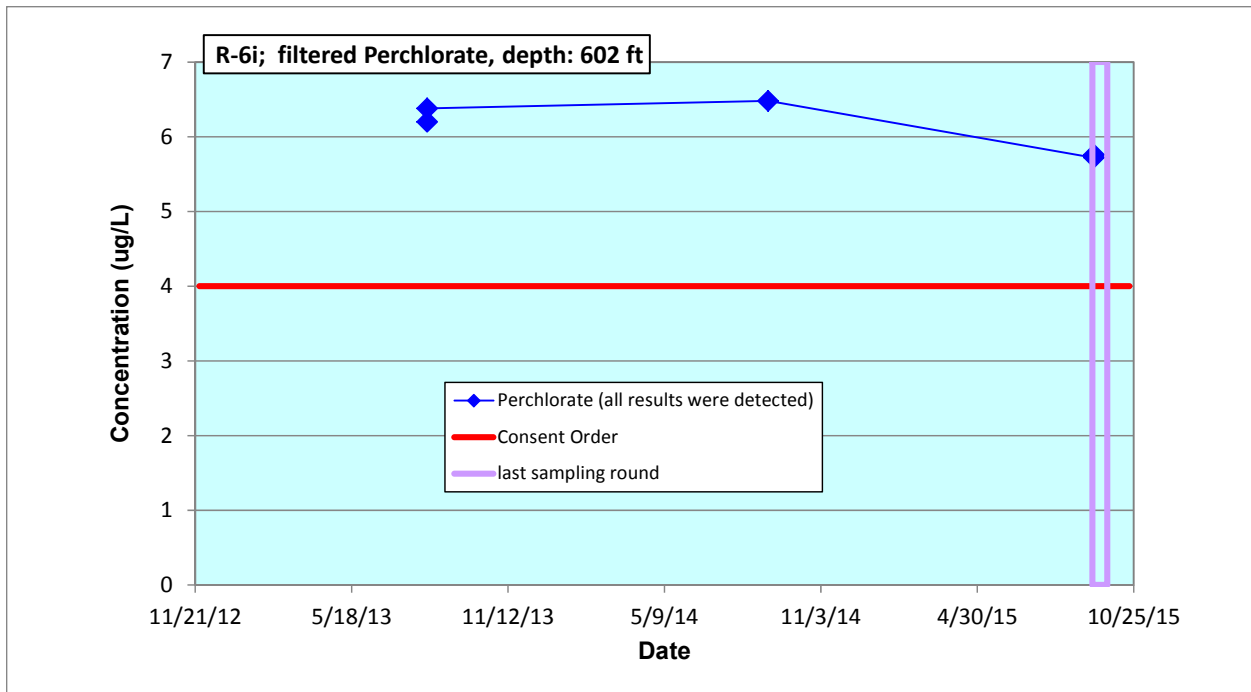
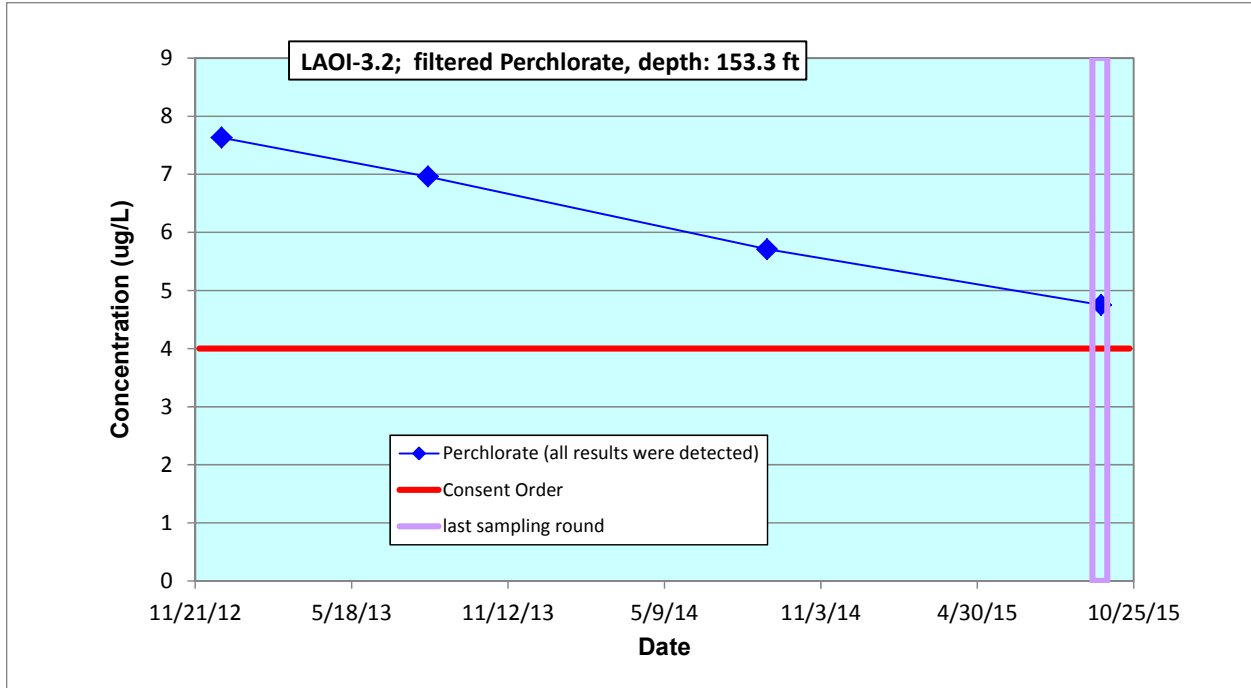
^p EPA TAP SCRNLVL = U.S. Environmental Protection Agency regional screening level for tap water.

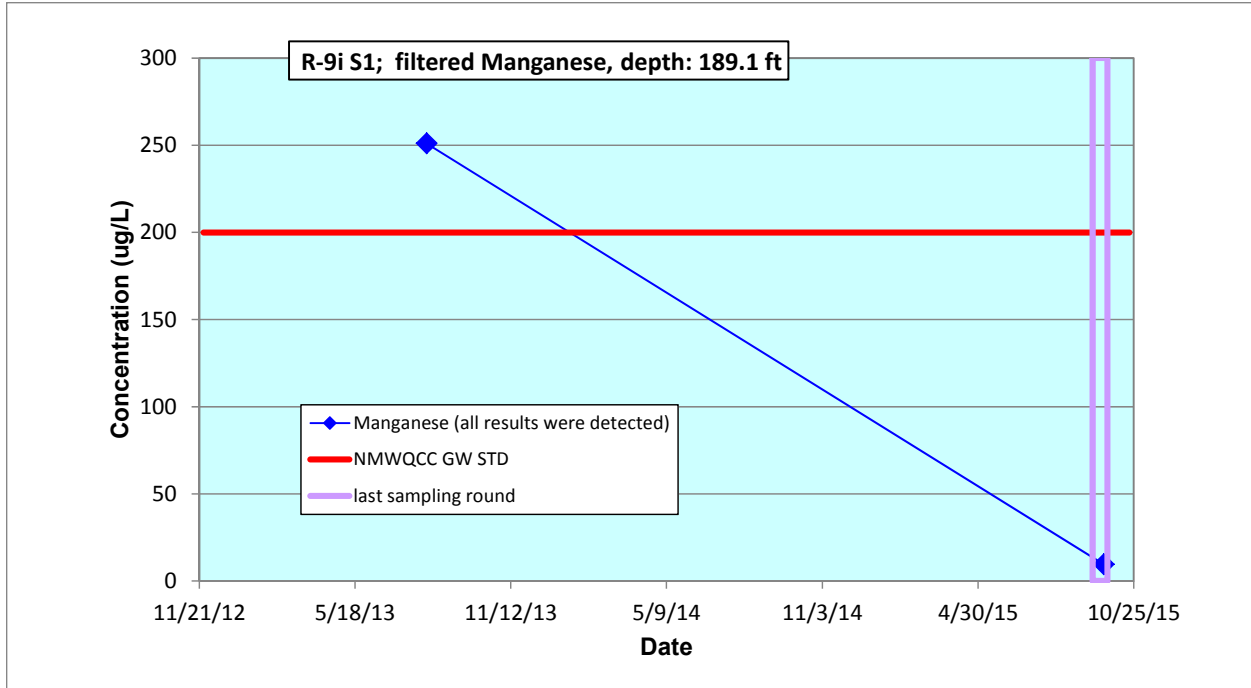
^q J+ = The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual with a potential positive bias.

^r PE12f = The matrix spike/matrix spike duplicate percent recovery was >125%.

Appendix E

Analytical Chemistry Graphs of Screening-Level Exceedances





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)
2015-2314	Inorganic	GELC ^a	CALA-15-104019	09/08/15	TA-53i	600	610
2015-2314	Inorganic	GELC	CALA-15-103997	09/08/15	TA-53i	600	610
2015-2314	Organic	GELC	CALA-15-103997	09/08/15	TA-53i	600	610
2015-2314	Rad ^b	GELC	CALA-15-103997	09/08/15	TA-53i	600	610
2015-2324	Inorganic	GELC	CALA-15-103989	09/09/15	R-6	1205	1228
2015-2324	Inorganic	GELC	CALA-15-104011	09/09/15	R-6	1205	1228
2015-2324	Organic	GELC	CALA-15-103989	09/09/15	R-6	1205	1228
2015-2324	Rad	GELC	CALA-15-103989	09/09/15	R-6	1205	1228
2015-2327	Inorganic	GELC	CALA-15-104009	09/10/15	R-5 S2	372.8	388.8
2015-2327	Inorganic	GELC	CALA-15-103987	09/10/15	R-5 S2	372.8	388.8
2015-2327	Organic	GELC	CALA-15-103987	09/10/15	R-5 S2	372.8	388.8
2015-2327	Rad	GELC	CALA-15-103987	09/10/15	R-5 S2	372.8	388.8
2015-2328	Inorganic	GELC	CALA-15-104012	09/10/15	R-64	1285	1305.5
2015-2328	Inorganic	GELC	CALA-15-103990	09/10/15	R-64	1285	1305.5
2015-2328	Organic	GELC	CALA-15-103990	09/10/15	R-64	1285	1305.5
2015-2328	Rad	GELC	CALA-15-103990	09/10/15	R-64	1285	1305.5
2015-2329	Inorganic	GELC	CALA-15-103992	09/10/15	R-6i	602	612
2015-2329	Inorganic	GELC	CALA-15-104014	09/10/15	R-6i	602	612
2015-2329	Inorganic	GELC	CALA-15-103955	09/10/15	R-6i	602	612
2015-2329	Inorganic	GELC	CALA-15-103957	09/10/15	R-6i	602	612
2015-2329	Organic	GELC	CALA-15-103992	09/10/15	R-6i	602	612
2015-2329	Organic	GELC	CALA-15-103955	09/10/15	R-6i	602	612
2015-2329	Rad	GELC	CALA-15-103992	09/10/15	R-6i	602	612
2015-2329	Rad	GELC	CALA-15-103955	09/10/15	R-6i	602	612
2015-2331	Inorganic	GELC	CALA-15-104010	09/11/15	R-5 S3	676.9	720.3
2015-2331	Inorganic	GELC	CALA-15-103988	09/11/15	R-5 S3	676.9	720.3
2015-2331	Organic	GELC	CALA-15-103988	09/11/15	R-5 S3	676.9	720.3
2015-2331	Rad	GELC	CALA-15-103988	09/11/15	R-5 S3	676.9	720.3
2015-2334	Inorganic	GELC	CALA-15-104013	09/14/15	R-66	819.4	839.7
2015-2334	Inorganic	GELC	CALA-15-103991	09/14/15	R-66	819.4	839.7
2015-2334	Organic	GELC	CALA-15-103991	09/14/15	R-66	819.4	839.7
2015-2334	Rad	GELC	CALA-15-103991	09/14/15	R-66	819.4	839.7
2015-2337	Inorganic	GELC	CALA-15-103999	09/15/15	LAOI(a)-1.1	295.2	305
2015-2337	Inorganic	GELC	CALA-15-103977	09/15/15	LAOI(a)-1.1	295.2	305
2015-2337	Organic	GELC	CALA-15-103977	09/15/15	LAOI(a)-1.1	295.2	305
2015-2337	Rad	GELC	CALA-15-103977	09/15/15	LAOI(a)-1.1	295.2	305
2015-2345	Inorganic	GELC	CALA-15-103995	09/16/15	R-9	683	748.5

Periodic Monitoring Report for TA-21 Monitoring Group

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-2345	Inorganic	GELC	CALA-15-104017	09/16/15	R-9	683	748.5
2015-2345	Organic	GELC	CALA-15-103995	09/16/15	R-9	683	748.5
2015-2345	RAD	GELC	CALA-15-103995	09/16/15	R-9	683	748.5
2015-2347	RAD	ARSL ^c	CALA-15-103977	09/15/15	LAOI(a)-1.1	295.2	305
2015-2347	RAD	ARSL	CALA-15-103990	09/10/15	R-64	1285	1305.5
2015-2347	RAD	ARSL	CALA-15-103987	09/10/15	R-5 S2	372.8	388.8
2015-2347	RAD	ARSL	CALA-15-103991	09/14/15	R-66	819.4	839.7
2015-2347	RAD	ARSL	CALA-15-103988	09/11/15	R-5 S3	676.9	720.3
2015-2353	Inorganic	GELC	CALA-15-104001	09/17/15	LAOI-3.2a	181.4	191
2015-2353	Inorganic	GELC	CALA-15-103979	09/17/15	LAOI-3.2a	181.4	191
2015-2353	Organic	GELC	CALA-15-103979	09/17/15	LAOI-3.2a	181.4	191
2015-2353	Rad	GELC	CALA-15-103979	09/17/15	LAOI-3.2a	181.4	191
2015-2357	Inorganic	GELC	CALA-15-104000	09/18/15	LAOI-3.2	153.3	162.8
2015-2357	Inorganic	GELC	CALA-15-103978	09/18/15	LAOI-3.2	153.3	162.8
2015-2357	Organic	GELC	CALA-15-103978	09/18/15	LAOI-3.2	153.3	162.8
2015-2357	Rad	GELC	CALA-15-103978	09/18/15	LAOI-3.2	153.3	162.8
2015-2363	Inorganic	GELC	CALA-15-103996	09/21/15	R-9i S1	189.1	199.5
2015-2363	Inorganic	GELC	CALA-15-104018	09/21/15	R-9i S1	189.1	199.5
2015-2363	Organic	GELC	CALA-15-103996	09/21/15	R-9i S1	189.1	199.5
2015-2363	Rad	GELC	CALA-15-103996	09/21/15	R-9i S1	189.1	199.5
2015-2374	Inorganic	GELC	CALA-15-103993	09/24/15	R-8 S1	705.31	755.7
2015-2374	Inorganic	GELC	CALA-15-104015	09/24/15	R-8 S1	705.31	755.7
2015-2374	Organic	GELC	CALA-15-103993	09/24/15	R-8 S1	705.31	755.7
2015-2374	Rad	GELC	CALA-15-103993	09/24/15	R-8 S1	705.31	755.7
2015-2376	Inorganic	GELC	CALA-15-104016	09/25/15	R-8 S2	821	828
2015-2376	Inorganic	GELC	CALA-15-103994	09/25/15	R-8 S2	821	828
2015-2376	Organic	GELC	CALA-15-103994	09/25/15	R-8 S2	821	828
2015-2376	Rad	GELC	CALA-15-103994	09/25/15	R-8 S2	821	828
2015-467	Inorganic	GELC	CALA-15-90548	12/03/14	R-66	819.4	839.7
2015-467	Inorganic	GELC	CALA-15-90549	12/03/14	R-66	819.4	839.7
2015-467	Inorganic	GELC	CALA-15-90560	12/03/14	R-66	819.4	839.7
2015-467	Inorganic	GELC	CALA-15-90569	12/03/14	R-66	819.4	839.7
2015-467	Organic	GELC	CALA-15-90548	12/03/14	R-66	819.4	839.7
2015-467	Organic	GELC	CALA-15-90560	12/03/14	R-66	819.4	839.7
2015-467	Rad	GELC	CALA-15-90548	12/03/14	R-66	819.4	839.7
2015-467	Rad	GELC	CALA-15-90560	12/03/14	R-66	819.4	839.7
2015-501	Rad	ARSL	CALA-15-90548	12/03/14	R-66	819.4	839.7
2015-501	Rad	ARSL	CALA-15-90560	12/03/14	R-66	819.4	839.7

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-882	Inorganic	GELC	CALA-15-92868	03/11/15	R-66	819.4	839.7
2015-882	Inorganic	GELC	CALA-15-92877	03/11/15	R-66	819.4	839.7
2015-882	Organic	GELC	CALA-15-92868	03/11/15	R-66	819.4	839.7
2015-882	Rad	GELC	CALA-15-92868	03/11/15	R-66	819.4	839.7
2015-886	Rad	ARSL	CALA-15-92868	03/11/15	R-66	819.4	839.7
2015-888	Rad	ARSL	CALA-15-92855	03/12/15	R-64	1285	1305.5
2015-889	Inorganic	GELC	CALA-15-92855	03/12/15	R-64	1285	1305.5
2015-889	Inorganic	GELC	CALA-15-92856	03/12/15	R-64	1285	1305.5
2015-889	Inorganic	GELC	CALA-15-92876	03/12/15	R-64	1285	1305.5
2015-889	Inorganic	GELC	CALA-15-92867	03/12/15	R-64	1285	1305.5
2015-889	Organic	GELC	CALA-15-92855	03/12/15	R-64	1285	1305.5
2015-889	Organic	GELC	CALA-15-92867	03/12/15	R-64	1285	1305.5
2015-889	Rad	GELC	CALA-15-92855	03/12/15	R-64	1285	1305.5
2015-889	Rad	GELC	CALA-15-92867	03/12/15	R-64	1285	1305.5
2015-894	Inorganic	GELC	CALA-15-92875	03/13/15	R-6	1205	1228
2015-894	Inorganic	GELC	CALA-15-92866	03/13/15	R-6	1205	1228
2015-894	Rad	GELC	CALA-15-92866	03/13/15	R-6	1205	1228
2016-9	Rad	ARSL	CALA-15-103993	09/24/15	R-8 S1	705.31	755.7
2016-9	Rad	ARSL	CALA-15-103994	09/25/15	R-8 S2	821	828

^a GELC = General Engineering Laboratories, Inc., Charleston, SC.

^b Rad = Radiochemistry (not gamma).

^c ARSL = American Radiation Services, Inc.

