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NOV 28 2016

Date:
Refer To: ADEM-16-5255
LAUR: LA-UR-16-28456
Locates Action No.: n/a

John Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Annual Periodic Monitoring Report for the General Surveillance Monitoring Group

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the Annual Periodic Monitoring Report for the General Surveillance Monitoring Group, for sampling campaigns performed in the Los Alamos and Pueblo watersheds during the first and third quarters of monitoring year (MY) 2016 and in the Mortandad and Sandia watersheds during the first, second, and third quarters of MY 2016.

This report is submitted in accordance with Appendix E, Section IV, of the June 2016 Compliance Order on Consent (Consent Order). Los Alamos National Laboratory (LANL) is working towards updating its data screening procedures to incorporate the screening requirements in Section IX of the 2016 Consent Order. Therefore, the screening levels used in this report are those specified in Sections VIII.A and VIII.C of the March 2005 Consent Order.

LANL is currently working with the New Mexico Environment Department (NMED) to develop a response to recent NMED comments regarding the reporting of groundwater-level data in future PMRs. The attached PMR does not reflect any progress achieved to date toward possible revisions to reporting groundwater level data.

If you have any questions, please contact Steve Paris at (505) 606-0915 (smparis@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@em.doe.gov).

Sincerely,

Bruce Robinson, Program Director
Environmental Remediation Program
Los Alamos National Laboratory

Sincerely,

David S. Rhodes, Director
Office of Quality and Regulatory Compliance
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BR/DR/SP:sm

Enclosures: Two hard copies with electronic files – Annual Periodic Monitoring Report for the General Surveillance Monitoring Group (EP2016-0125)

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LA-UR-16-28456
November 2016
EP2016-0125

Annual Periodic Monitoring Report for the General Surveillance Monitoring Group

Prepared by the Associate Directorate for Environmental Management

EP2016-0125

Annual Periodic Monitoring Report for the General Surveillance Monitoring Group,

November 2016

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David S. Rhodes		Office Director	Quality and Regulatory Compliance	11-22-2016

EXECUTIVE SUMMARY

This annual periodic monitoring report (PMR) presents results for the General Surveillance monitoring group of the Los Alamos National Laboratory groundwater monitoring program that have not been previously reported. All monitoring work reported in this PMR was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016, and prepared in accordance with the Compliance Order on Consent.

This PMR presents monitoring results for five periodic monitoring events (PMEs) conducted during the first, second, and third quarters of Monitoring Year 2016 (MY2016) and includes the monitoring of surface-water, groundwater spring, and groundwater well or well screen locations. Two of the PMEs were conducted in the Los Alamos and Pueblo watershed portion of the General Surveillance monitoring group, and three of the PMEs were conducted in the Mortandad and Sandia watershed portion of the General Surveillance monitoring group. This PMR also includes any results from earlier general surveillance PMEs conducted in these watersheds that have not yet been reported because validated laboratory data were not available (in some cases because of data release agreements).

Surface-water and groundwater samples collected during the PMEs were analyzed for metals; volatile organic compounds; semivolatile organic compounds; dioxins and furans; radionuclides, including low-level tritium; general inorganic chemicals, including perchlorate; and field parameters (dissolved oxygen, oxidation-reduction potential, pH, specific conductance, temperature, and turbidity).

No surface-water analytical results reported in this PMR were above applicable screening levels.
Three groundwater analytical results reported in this PMR were above applicable screening levels.

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Acronyms and Abbreviations

amsl	above mean sea level
AOC	area of concern
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.)
EIM	Environmental Information Management (Database)
EPA	Environmental Protection Agency (U.S.)
ESH	Environment, Safety, and Health (Directorate)
F	filtered
gpm	gallons per minute
HE	high explosives
HMX	octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MDA	material disposal area
MDL	method detection limit
MY	monitoring year
N	no (best value flag code)
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NM HH OO	Human health organism only, New Mexico surface-water standards
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event

PMR	periodic monitoring report
PQL	practical quantitation limit
Q	quarter
QC	quality control
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
RLWTF	Radioactive Liquid Waste Treatment Facility
SIM	selected ion monitoring
SOP	standard operating procedure
SVOC	semivolatile organic compound
SWMU	solid waste management unit
TA	technical area
TDS	total dissolved solids
TNT	2,4,6-trinitrotoluene
UF	unfiltered
VOC	volatile organic compound
Y	yes (best value flag code)

1.0 INTRODUCTION

This "Annual Periodic Monitoring Report for the General Surveillance Monitoring Group" (hereafter, the Annual PMR) provides documentation of the following surface-water and groundwater periodic monitoring events (PMEs) conducted by Los Alamos National Laboratory (LANL or the Laboratory):

Watershed Portion of the General Surveillance Monitoring Group	PMEs Reported in this PMR		PME Field Sampling	
	MY*	Quarter	Begin	End
Los Alamos and Pueblo	2016	1	12/01/15	12/21/15
		3	05/31/16	06/16/16
Mortandad and Sandia	2016	1	11/06/15	11/24/15
		2	02/02/16	02/19/16
		3	05/02/16	05/18/16

* MY = monitoring year.

The Annual PMR for the General Surveillance monitoring group is submitted to NMED every November and includes general surveillance PMEs performed through the third quarter of the monitoring year (MY). The following MY2016 general surveillance PMEs have already been reported and therefore are not presented in this annual PMR: Water watershed (quarter [Q] 2), White Rock Canyon (Q1), Ancho watershed (Q2) and Pajarito watershed (Q1 and Q3).

Monitoring was conducted pursuant to the "Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016" (2016 IFGMP) (LANL 2015, 600467), which was prepared in accordance with the 2005 Compliance Order on Consent (the Consent Order). The PMEs noted above included sampling of surface-water, groundwater spring, and groundwater well (or well screen) locations.

This PMR also includes any results from previous general surveillance PMEs that have not yet been reported because validated laboratory data were not available (in some cases because of data release agreements).

Sections VIII.A and VIII.C of the 2005 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 PME results with screening levels 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

Most of the monitoring locations discussed in the 2016 IFGMP (LANL 2015, 600467) are assigned to area-specific monitoring groups related to project areas that may be located in more than one watershed. Locations not included within one of these six area-specific monitoring groups are assigned to the General Surveillance monitoring group. This Annual PMR presents monitoring results for the Los Alamos/Pueblo and Mortandad/Sandia watershed portions of the General Surveillance monitoring group.

Los Alamos and Pueblo Watersheds

Monitoring locations in Los Alamos Canyon other than locations in the General Surveillance monitoring group are assigned to the Technical Area 21 (TA-21) monitoring group. 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 (SWMU) 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 detected in current groundwater samples.

Mortandad and Sandia Watersheds

Monitoring locations in Mortandad and Sandia Canyons, other than locations in the General Surveillance monitoring group, are assigned to the Chromium Investigation monitoring group, which is located in Mortandad and Sandia Canyons. Monitoring focuses on the characterization and fate and transport of chromium contamination in intermediate-perched groundwater and within the regional aquifer. The distribution of wells in the monitoring group also addresses historical releases from Outfall 051, which discharges from the Radioactive Liquid Waste Treatment Facility (RLWTF) in the Mortandad Canyon watershed. Effluent discharge was suspended in 2011 because of process changes at the RLWTF.

Sandia Canyon heads on Laboratory property within TA-03 at an elevation of approximately 7300 ft and trends east-southeast across the Laboratory, Bandelier National Monument, and San Ildefonso Pueblo. Sandia Canyon empties into the Rio Grande in White Rock Canyon at an elevation of 5450 ft. The area of the Sandia Canyon watershed is approximately 5.5 mi^2. Perennial stream flow and saturated alluvial groundwater conditions occur in the upper and middle portions of the canyon system because sanitary wastewater and cooling tower effluent discharge to the canyon from operating facilities. A wetland of approximately 7 acres has developed as a result of the effluent discharge. The only known perennial spring in the watershed (Sandia Spring) is located in lower Sandia Canyon near the Rio Grande. TAs located in the Sandia Canyon watershed include TA-03, TA-53, TA-60, TA-61, TA-72, and former TA-20. A total of 264 SWMUs and areas of concern (AOCs) are located within the portions of these TAs in the Sandia Canyon watershed.

Mortandad Canyon is an east-to-southeast trending canyon that heads on the Pajarito Plateau near the main Laboratory complex at TA-03 at an elevation of 7380 ft. The drainage extends about 9.6 mi from its headwaters to its confluence with the Rio Grande at an elevation of 5440 ft. The canyon crosses San Ildefonso Pueblo land for several miles before joining the Rio Grande (LANL 1997, 056835). The Mortandad Canyon watershed is located in the central portion of the Laboratory and covers approximately 10 mi2. The Mortandad Canyon watershed contains several tributary canyons that have received contaminants released during Laboratory operations, including Ten Site Canyon, Pratt Canyon, Effluent Canyon, and Cañada del Buey. TAs located in the Mortandad Canyon watershed include TA-03, TA-05, TA-35, TA-48, TA-50, TA-52, TA-55, TA-60, TA-63, former TA-04, and former TA-42. A total of 257 SWMUs and AOCs are located within the portions of these TAs in the Mortandad Canyon watershed.

Chromium concentrations exceed the NMED groundwater standard in Mortandad Canyon regional aquifer wells R-28, R-62, R-42, R-43, and R-50. Other constituents detected above background in wells in the monitoring group include nitrate, perchlorate, and tritium. A conceptual model for the sources and distribution of these contaminants is presented in the “Investigation Report for Sandia Canyon” (LANL 2009, 107453) and the “Phase II Investigation Report for Sandia Canyon” (LANL 2012, 228624).

The conceptual model hypothesizes that chromium and other contaminants originate from releases into Sandia Canyon with lateral migration pathways that move contamination to locations beneath Mortandad Canyon. For this reason, intermediate-perched and regional wells beneath Mortandad Canyon are included in the Chromium Investigation monitoring group. Other areas of contamination beneath Sandia and Mortandad Canyons may be associated with Mortandad Canyon sources. These sources and the migration pathways are described in the “Investigation Report for Sandia Canyon” (LANL 2009, 107453) and the “Phase II Investigation Report for Sandia Canyon” (LANL 2012, 228624).

2.0 SCOPE OF ACTIVITIES

The PMEs for the Los Alamos/Pueblo and Mortandad/Sandia watershed portions of the General Surveillance monitoring group were conducted pursuant to the 2016 IFGMP (LANL 2015, 600467).

Table 2.0-1 provides the name, watershed, sample collection date, screened interval, top and bottom screen depths, casing volume, purge volume, and purge or flow rate for each of the planned monitoring locations. These locations are shown in Figures 2.0-1 and 2.0-2 which are the location maps for the Los Alamos/Pueblo and Mortandad/Sandia watershed portions of the General Surveillance monitoring group, respectively.

3.0 MONITORING RESULTS

3.1 Methods and Procedures

All methods and procedures used to perform the field activities associated with the data reported in this PMR are documented in the 2016 IFGMP (LANL 2015, 600467).

3.2 Field Parameter Results

Appendix A presents the field parameter measurements associated with the sampling and analysis data reported in this PMR.

3.3 Groundwater Elevations and Base-Flow Observations

The periodic monitoring water-level data for the previous 2 yr are presented in Appendix B (on CD included with this document). For wells equipped with transducers, the reported water level is the water-level measurement taken earliest on the day of sampling. All manual measurements were recorded immediately before sampling. The groundwater-elevation measurements are shown graphically on Plate 1 (Los Alamos and Pueblo watersheds) and on Plate 2 (Mortandad and Sandia watersheds). Similarly, base-flow measurements are shown graphically in Figure 3.3-1 (Los Alamos and Pueblo watersheds) and Figure 3.3-2 (Mortandad and Sandia watersheds).

3.4 Deviations from Planned Scope

Table 3.4-1 describes the fieldwork deviations from the planned monitoring scope that is reported in this annual PMR.

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 associated with the data reported in this PMR are documented in the 2016 IFGMP (LANL 2015, 600467). Drilling, purge, and development waters will be managed in accordance with the decision tree for the land application of groundwater.

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/environment/plans-procedures.php and are available at eprr.lanl.gov. Completed chain-of-custody forms serve as analytical request forms and include the requester or owner, sample number, program code, date and time of sample collection, total number of bottles, list of analytes to be measured, bottle sizes, and preservatives for each required analysis.

The required analytical laboratory batch quality control (QC) is defined by the analytical method, the analytical statement of work, and generally accepted industry 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 followed the guidelines set in the DOE model SOP for data validation, which included 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 for the five PMEs reported in this PMR and from the four sampling events at these locations immediately before these PMEs. 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 F also includes tables showing the contents of the appendix.

Appendix C contains all data collected for the PMEs reported in this PMR (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, 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, determined by chemical separation alpha spectroscopy, are reported. 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 are 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 lower 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 are used as the groundwater cleanup level. These screening levels are for either a cancer- or noncancer-risk type. For the cancer-risk type, the Consent Order specifies screening at a 10^{-5} excess cancer risk. The EPA screening levels are for 10^{-6} excess cancer risk, so 10 times the EPA 10^{-6} screening levels are used for screening. This report was prepared using the May 2016 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 are 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.

No analytes in the data set reported in this PMR exceeded their screening levels at more than one sampling location, so no maps showing analyte concentrations across the monitoring group are included.

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 in just those instances reported in this PMR. 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.

4.2.1 Surface Water (Base Flow)

No surface-water analytical results reported in this PMR are above applicable screening levels.

4.2.2 Groundwater

Table 4.2-2 shows that three groundwater analytical results reported in this PMR are above applicable screening levels.

At Vine Tree Spring, a perched-intermediate groundwater sampling location on Pueblo de San Ildefonso land, the filtered perchlorate concentrations of 5.83 µg/L and 5.95 µg/L for samples collected on December 8, 2015, and June 16, 2016, respectively, were above the 4 µg/L Consent Order screening level. Vine Tree Spring is a few feet from Basalt Spring, which has been monitored since the 1960s. Basalt Spring apparently dried up and discharge moved to Vine Tree Spring, where samples have been collected since August 2011. Together, the perchlorate concentrations at Vine Tree Spring and Basalt Spring have been near or above the screening level since late 2008. Nine previous measurements at Vine Tree Spring since August 2011 range from 4.86 µg/L to 6.54 µg/L.

At R-10a, a regional groundwater monitoring well located on Pueblo de San Ildefonso land, the unfiltered dibenz(a,h)anthracene concentration of 0.172 µg/L for the sample collected on November 23, 2015, was above the 0.034 µg/L EPA tap water screening level. This is the first time dibenz(a,h)anthracene was detected at this monitoring location (based on sampling and analysis data since November 2005). The reported detection was determined by analytical method SW-846:8270D. The MDL and practical quantitation limit (PQL) for dibenz(a,h)anthracene for this analysis were 0.156 µg/L and 0.521 µg/L, respectively. In contrast, analysis of the sample by the low-MDL semivolatile organic compound (SVOC) method returned a nondetect result for dibenz(a,h)anthracene. The MDL and PQL for dibenz(a,h)anthracene for this low-MDL analysis were 0.03 µg/L and 0.1 µg/L, respectively.

4.3 Sampling Program Modifications

No modifications to the currently planned periodic monitoring of the General Surveillance monitoring group are proposed at this time.

5.0 SUMMARY AND INTERPRETATIONS

5.1 Monitoring Results

Appendix A presents the field parameter measurements associated with the sampling and analysis data reported in this PMR.

5.2 Analytical Results

5.2.1 Surface Water (Base Flow)

No surface-water analytical results reported in this PMR are above applicable screening levels.

5.2.2 Groundwater

Three groundwater analytical results reported in this PMR are above applicable screening levels. For results above screening levels, the types of contaminants detected and their concentrations are consistent with data reported in previous PMRs for this monitoring group, with the following exception.

Dibenz(a,h)anthracene was detected on November 23, 2015, for the first time at R-10a. A definitive assessment of the dibenz(a,h)anthracene analytical results for this sample (i.e., one detect and one nondetect result) cannot be made at this time. Continuation of the planned IFGMP monitoring at R-10a is necessary.

5.3 Data Gaps

Table 3.4-1 summarizes the deviations from the planned sampling scope that were experienced while performing the fieldwork associated with the monitoring data reported in this PMR.

5.4 Remediation System Monitoring

Remediation system monitoring is not applicable to the General Surveillance monitoring group because no systems are installed in this monitoring group.

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), September 1997. "Work Plan for Mortandad Canyon," Los Alamos National Laboratory document LA-UR-97-3291, Los Alamos, New Mexico. (LANL 1997, 056835)

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), October 2009. "Investigation Report for Sandia Canyon," Los Alamos National Laboratory document LA-UR-09-6450, Los Alamos, New Mexico. (LANL 2009, 107453)

LANL (Los Alamos National Laboratory), September 2012. "Phase II Investigation Report for Sandia Canyon," Los Alamos National Laboratory document LA-UR-12-24593, Los Alamos, New Mexico. (LANL 2012, 228624)

LANL (Los Alamos National Laboratory), May 2015. "Interim Facility-Wide Groundwater Monitoring Plan for the 2016 Monitoring Year, October 2015–September 2016," Los Alamos National Laboratory document LA-UR-15-23276, Los Alamos, New Mexico. (LANL 2015, 600467)

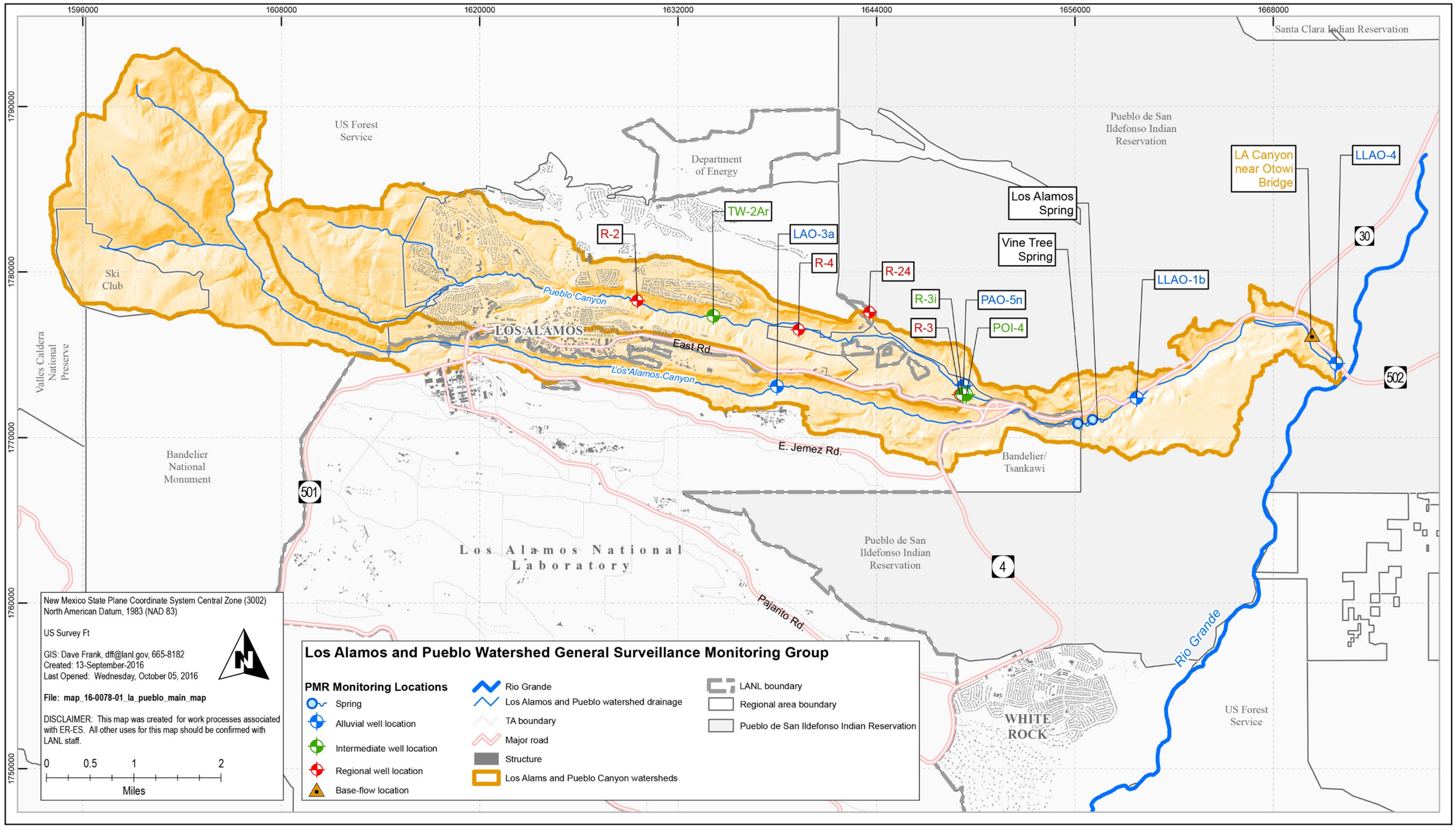


Figure 2.0-1 General Surveillance monitoring group locations in the Los Alamos and Pueblo watersheds

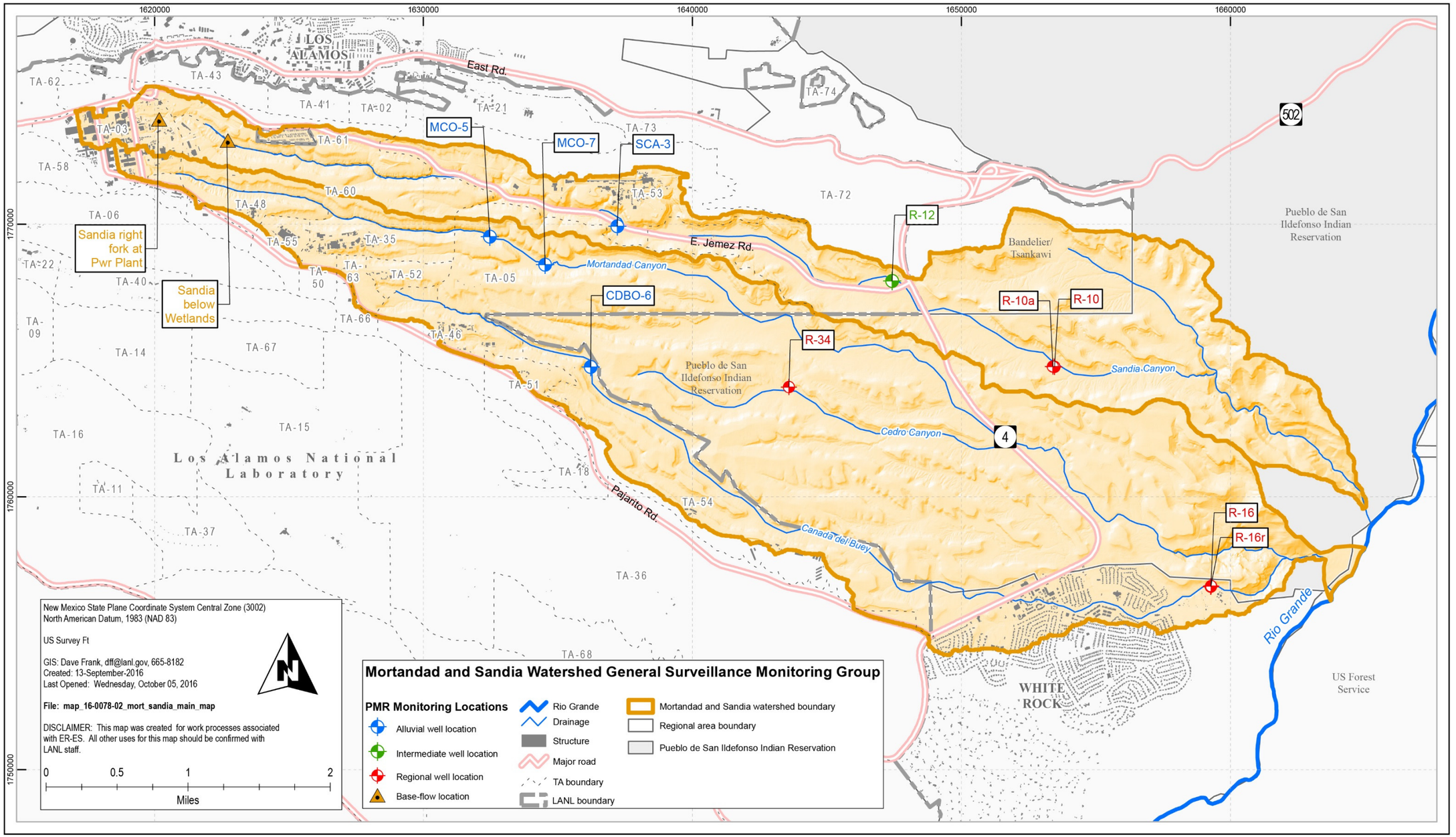


Figure 2.0-2 General Surveillance monitoring group locations in the Mortandad and Sandia watersheds

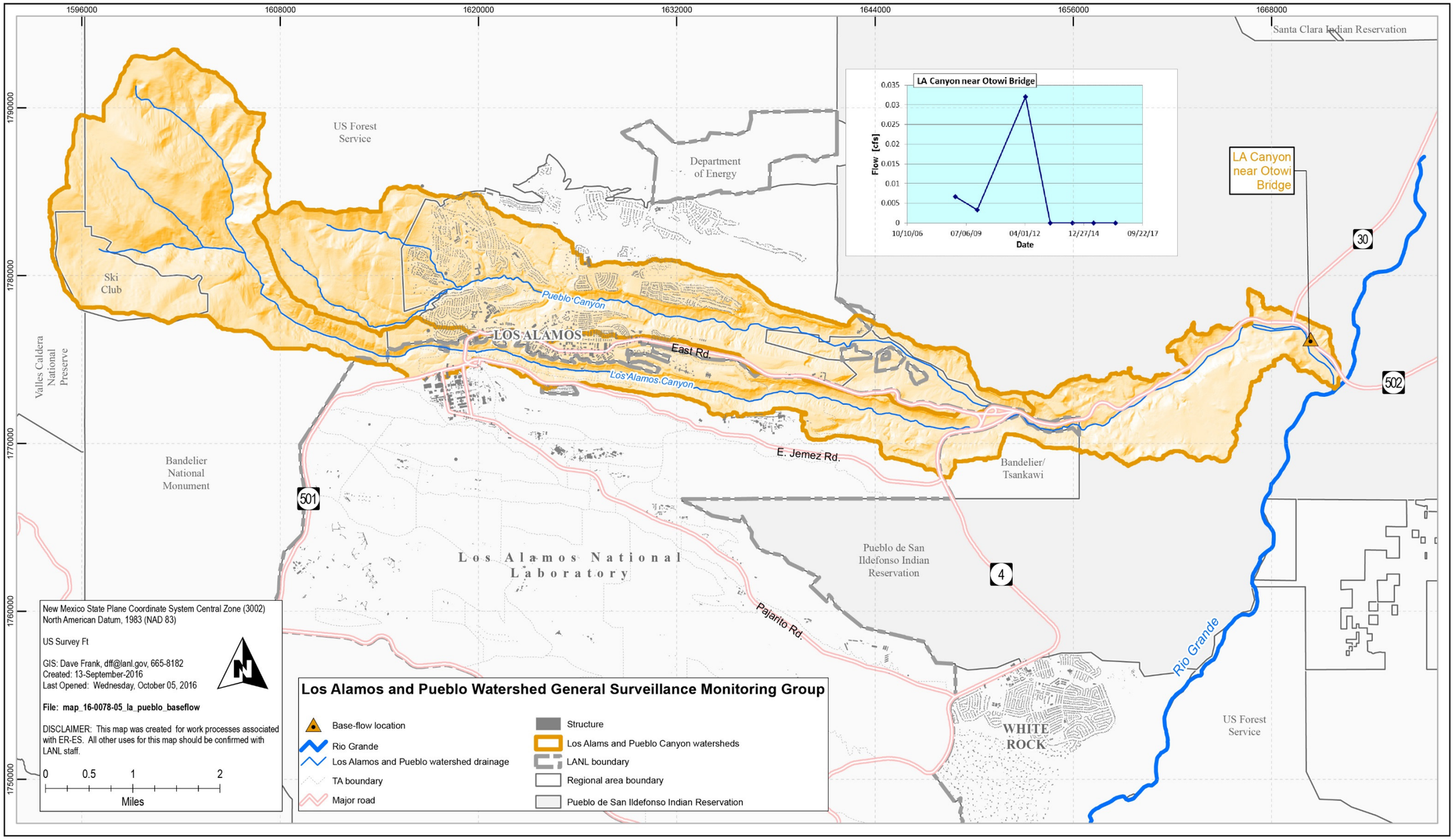


Figure 3.3-1 Base-flow measurements (Los Alamos and Pueblo watersheds)

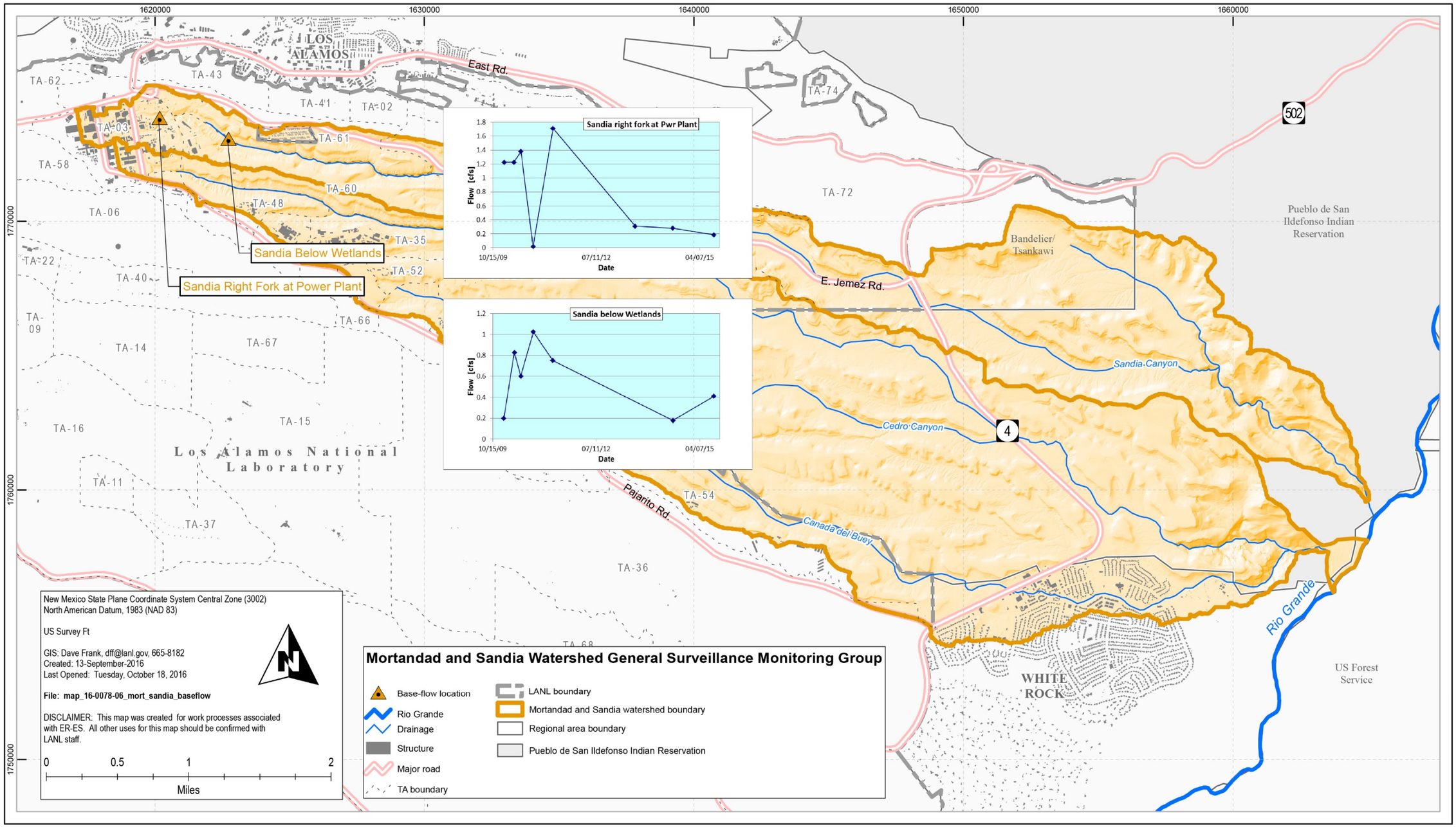


Figure 3.3-2 Base-flow measurements (Mortandad and Sandia watersheds)

Table 2.0-1
General Surveillance Monitoring Group PME Locations and General Information

Location	Watershed	Sampling Event		Sample Collection Date	Screened Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge or Flow Rate (gpm[a])
		MY	Quarter							
Base Flow										
LA Canyon near Otowi Bridge	Los Alamos	2016	3	n/a[b]	n/a	n/a	n/a	n/a	n/a	n/a
Spring										
Vine Tree Spring	Los Alamos	2016	1	12/08/15	n/a	n/a	n/a	n/a	n/a	5.83
Los Alamos Spring	Los Alamos	2016	3	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Vine Tree Spring	Los Alamos	2016	3	06/16/16	n/a	n/a	n/a	n/a	n/a	4.76
Alluvial										
LLAO-1b	Los Alamos	2016	3	n/a	10	11.32	21.32	n/a	n/a	n/a
LLAO-4	Los Alamos	2016	3	06/16/16	10	5.24	15.24	6.93	7.48	0.22
LAO-3a	Los Alamos	2016	3	06/07/16	10	4.7	14.7	1.3	3.92	0.135
PAO-5n	Pueblo	2016	3	06/08/16	5	7.43	12.43	3.12	4.2	0.14
Intermediate										
POI-4	Pueblo	2016	3	05/31/16	15	159	174	10.52	31.82	0.74
R-3i	Pueblo	2016	3	06/02/16	4.8	215.2	220	4.83	23.1	0.77
TW-2Ar	Pueblo	2016	3	06/01/16	10	102	112	10.37	31.98	0.82

Table 2.0-1 (continued)

Location	Watershed	Sampling Event		Sample Collection Date	Screened Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge or Flow Rate (gpm[a])
		MY	Quarter							
Regional										
R-10a	Sandia	2016	1	11/23/15	10	690	700	66.45	203.68	5.36
R-10 S1	Sandia	2016	1	11/23/15	23	874	897	218.5	675	12.5
R-10 S2	Sandia	2016	1	n/a	23	1042	1065	n/a	n/a	n/a
R-34	Mortandad	2016	1	11/24/15	22.9	883.7	906.6	100.72	302.4	2.8
R-34	Mortandad	2016	2	02/17/16	22.9	883.7	906.6	100.68	319.8	2.46
R-2	Pueblo	2016	3	05/31/16	23.2	906.4	929.6	33.09	107.2	1.36
R-3	Pueblo	2016	3	06/06/16	20.5	974.5	995	354.16	1064.28	5.88
R-4	Pueblo	2016	3	05/31/16	23.1	792.9	816	75.76	227.7	3.3
R-24	Pueblo	2016	3	06/06/16	23	825	848	116.19	349.44	4.48
R-10a	Sandia	2016	3	05/16/16	10	690	700	66.39	203.78	5.66
R-34	Mortandad	2016	3	05/16/16	22.9	883.7	906.6	100.8	304.1	2.94

[a] gpm = Gallons per minute.

[b] n/a = Not applicable.

Table 3.4-1
General Surveillance Monitoring Group PME Observations and Deviations

Location	Watershed	Sampling Event		Observation/ Deviation	Cause	Comment
		MY	Quarter			
R-10 S2	Sandia	2016	1	A sample was not collected.	This location was not sampled because the well pump was not functional. The attempted sampling date was 11/23/15.	The strategy for pump system removal and replacement is currently being developed.
LA Canyon near Otowi Bridge	Los Alamos	2016	3	A sample was not collected.	The location had insufficient water for sampling. The attempted sampling date was 06/16/16.	An attempt to sample the location will be made during the next applicable PME.
Los Alamos Spring	Los Alamos	2016	3	A sample was not collected.	The location had insufficient water for sampling. The attempted sampling date was 06/16/16.	An attempt to sample the location will be made during the next applicable PME.
LLAO-1b	Los Alamos	2016	3	A sample was not collected.	The location had insufficient water for sampling. The attempted sampling date was 06/16/16.	An attempt to sample the location will be made during the next applicable PME.

Table 3.4-2
Target Analytes with MDLs above Screening Levels

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
Semivolatile Organic Compounds						
Atrazine	3.09	SW-846:8270D	3	µg/L	EPA MCL	GELC[a]
Azobenzene	1.5–3.09	SW-846:8270D	1.2	µg/L	EPA TAP SCRN LVL[b]	GELC
Benzidine	0.83–4.02	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0011	µg/L	EPA TAP SCRN LVL	GELC
Benzo(a)anthracene	0.15–0.309	SW-846:8270D	0.12	µg/L	EPA TAP SCRN LVL	GELC
Benzo(a)pyrene	0.3–0.309	SW-846:8270D	0.2	µg/L	EPA MCL	GELC
Bis(2-chloroethyl)ether	1.5–3.09	SW-846:8270D	0.14	µg/L	EPA TAP SCRN LVL	GELC
Dibenz(a,h)anthracene	0.0345–0.309	SW-846:8270DGCMS_SIM, SW-846:8270D	0.034	µg/L	EPA TAP SCRN LVL	GELC
Dichlorobenzidine[3,3'-]	1.5–3.09	SW-846:8270D	1.3	µg/L	EPA TAP SCRN LVL	GELC
Dinitro-2-methylphenol[4,6-]	1.52–3.09	SW-846:8270D	1.5	µg/L	EPA TAP SCRN LVL	GELC
Hexachlorobenzene	1.5–3.09	SW-846:8270D	1	µg/L	EPA MCL	GELC
Nitrosodiethylamine[N-]	0.03–3.09	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0017	µg/L	EPA TAP SCRN LVL	GELC
Nitrosodimethylamine[N-]	0.07–3.09	SW-846:8270DGCMS_SIM, SW-846:8270D	0.0011	µg/L	EPA TAP SCRN LVL	GELC
Nitroso-di-n-butylamine[N-]	0.03–3.09	SW-846:8270DGCMS_SIM, SW-846:8270D	0.027	µg/L	EPA TAP SCRN LVL	GELC
Nitroso-di-n-propylamine[N-]	1.5–3.09	SW-846:8270D	0.11	µg/L	EPA TAP SCRN LVL	GELC
Nitrosopyrrolidine[N-]	1.5–3.09	SW-846:8270D	0.37	µg/L	EPA TAP SCRN LVL	GELC
Pentachlorophenol	1.5–3.09	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 SCRN LVL	GELC
Acrylonitrile	1–1.5	SW-846:8260B	0.52	µg/L	EPA TAP SCRN LVL	GELC
Chloro-1,3-butadiene[2-]	0.2–0.3	SW-846:8260B	0.19	µg/L	EPA TAP SCRN LVL	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-]	0.0183–0.3	SW-846:8011, SW-846:8260B	0.0075	µg/L	EPA TAP SCRN LVL	GELC

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

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

[b] EPA TAP SCRN LVL = EPA regional screening level for tap water.

Table 3.4-3
Target Analytes with MDLs below Screening Levels

Analyte Name	MDL	Analytical Method	Screening Level	Unit	Screening-Level Type	Lab ID
Herbicides						
Pentachlorophenol	0.0833–0.0958	SW-846:8151A	1	µg/L	EPA MCL	GELC[a]
Pesticides and Polychlorinated Biphenyls						
Hexachlorobenzene	0.00638–0.00702	SW-846:8081B	1	µg/L	EPA MCL	GELC
Semivolatile Organic Compounds						
Atrazine	1.5–3	SW-846:8270D	3	µg/L	EPA MCL	GELC
Benzo(a)anthracene	0.03–0.0345	SW-846:8270DGCMS_SIM	0.12	µg/L	EPA TAP SCRN LVL[b]	GELC
Benzo(a)pyrene	0.03–0.172	SW-846:8270D, SW-846:8270DGCMS_SIM	0.2	µg/L	EPA MCL	GELC
Benzo(b)fluoranthene	0.03–0.309	SW-846:8270D, SW-846:8270DGCMS_SIM	0.34	µg/L	EPA TAP SCRN LVL	GELC
Bis(2-chloroethyl)ether	0.03–0.0345	SW-846:8270DGCMS_SIM	0.14	µg/L	EPA TAP SCRN LVL	GELC
Dibenz(a,h)anthracene	0.03–0.0333	SW-846:8270DGCMS_SIM	0.034	µg/L	EPA TAP SCRN LVL	GELC
Dichlorobenzidine[3,3'-]	0.039–0.0448	SW-846:8270DGCMS_SIM	1.3	µg/L	EPA TAP SCRN LVL	GELC
Dinitro-2-methylphenol[4,6-]	1.5	SW-846:8270D	1.5	µg/L	EPA TAP SCRN LVL	GELC
Indeno(1,2,3-cd)pyrene	0.03–0.309	SW-846:8270D, SW-846:8270DGCMS_SIM	0.34	µg/L	EPA TAP SCRN LVL	GELC
Nitroso-di-n-propylamine[N-]	0.03–0.0345	SW-846:8270DGCMS_SIM	0.11	µg/L	EPA TAP SCRN LVL	GELC
Nitrosopyrrolidine[N-]	0.03–0.0345	SW-846:8270DGCMS_SIM	0.37	µg/L	EPA TAP SCRN LVL	GELC
Oxybis(1-chloropropane)[2,2'-]	1.5–3.09	SW-846:8270D	710	µg/L	EPA TAP SCRN LVL	GELC
Volatile Organic Compounds						
Acrylonitrile	0.5	SW-846:8260B_SIM	0.52	µg/L	EPA TAP SCRN LVL	GELC
Chloro-1,3-butadiene[2-]	0.1	SW-846:8260B_SIM	0.19	µg/L	EPA TAP SCRN LVL	GELC
Dibromo-3-Chloropropane[1,2-]	0.00866–0.0092	SW-846:8011	0.2	µg/L	EPA MCL	GELC
Dibromoethane[1,2-]	0.00866–0.0092	SW-846:8011	0.05	µg/L	EPA MCL	GELC
Methacrylonitrile	1–1.5	SW-846:8260B	1.9	µg/L	EPA TAP SCRN LVL	GELC

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

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

[b] EPA TAP SCRN LVL = EPA 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 BCG	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 MCL	X	n/a
EPA Regional Screening Levels[d]	EPA Regional Screening Levels for Tap Water	X	n/a
Consent Order	Screening Level for Perchlorate in Groundwater	X	n/a
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[e,f]
20 NMAC 6.4.900.H	NMWQCC Aquatic Life Standards Chronic	n/a	X[e,f]
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] Available at http://www.epa.gov/risk/risk-based-screening-table-generic-tables.

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

[f] Standard for dissolved chromium(VI) conservatively compared with results for dissolved chromium.

Table 4.2-2
General Surveillance Monitoring Group
Results above Screening Levels

Location	Watershed	Sampling Event		Sample Collection Date	Analyte	Field Prep Code	Result	Unit	Screening Level	Screening-Level Type
		MY	Quarter							
Spring										
Vine Tree Spring	Los Alamos	2016	Q1	12/8/2015	Perchlorate	F[a]	5.83	µg/L	4	Consent Order
Vine Tree Spring	Los Alamos	2016	Q3	6/16/2016	Perchlorate	F	5.95	µg/L	4	Consent Order
Regional										
R-10a	Sandia	2016	Q1	11/23/2015	Dibenz(a,h)anthracene	UF[b]	0.172	µg/L	0.034	EPA TAP SCRN LVL[c]

[a] F = Filtered.

[b] UF = Unfiltered.

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

Appendix A

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

Table A-1
Los Alamos and Pueblo Watersheds, General Surveillance Monitoring Group
Field Parameter Results, Including Results from Previous Four Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAO-3a	4.7	06/07/16	WG[a]	Dissolved Oxygen	4.89	mg/L	CALA-16-116841
LAO-3a	4.7	06/08/15	WG	Dissolved Oxygen	7.23	mg/L	CALA-15-97424
LAO-3a	4.7	06/06/14	WG	Dissolved Oxygen	7.7	mg/L	CALA-14-79456
LAO-3a	4.7	06/06/13	WG	Dissolved Oxygen	8.22	mg/L	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Dissolved Oxygen	8.2	mg/L	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	Dissolved Oxygen	8.2	mg/L	CALA-12-12533
LAO-3a	4.7	06/07/16	WG	Flow (in gpm[b])	0.135	gpm	CALA-16-116841
LAO-3a	4.7	06/08/15	WG	Flow (in gpm)	0.13	gpm	CALA-15-97424
LAO-3a	4.7	06/06/14	WG	Flow (in gpm)	0.13	gpm	CALA-14-79456
LAO-3a	4.7	03/11/11	WG	Flow (in gpm)	0.13	gpm	CALA-11-5224
LAO-3a	4.7	07/15/09	WG	Flow (in gpm)	0.16	gpm	CALA-09-11091
LAO-3a	4.7	06/07/16	WG	Oxidation-Reduction Potential	182.8	mV	CALA-16-116841
LAO-3a	4.7	06/08/15	WG	Oxidation-Reduction Potential	165.9	mV	CALA-15-97424
LAO-3a	4.7	06/06/14	WG	Oxidation-Reduction Potential	106.2	mV	CALA-14-79456
LAO-3a	4.7	06/06/13	WG	Oxidation-Reduction Potential	180.4	mV	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Oxidation-Reduction Potential	96.9	mV	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	Oxidation-Reduction Potential	96.9	mV	CALA-12-12533
LAO-3a	4.7	06/07/16	WG	pH	6.33	SU[c]	CALA-16-116841
LAO-3a	4.7	06/08/15	WG	pH	6.79	SU	CALA-15-97424
LAO-3a	4.7	06/06/14	WG	pH	6.93	SU	CALA-14-79456
LAO-3a	4.7	06/06/13	WG	pH	6.84	SU	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	pH	7.05	SU	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	pH	7.05	SU	CALA-12-12533
LAO-3a	4.7	06/07/16	WG	Specific Conductance	492	µS/cm	CALA-16-116841

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LAO-3a	4.7	06/08/15	WG	Specific Conductance	383	µS/cm	CALA-15-97424
LAO-3a	4.7	06/06/14	WG	Specific Conductance	384	µS/cm	CALA-14-79456
LAO-3a	4.7	06/06/13	WG	Specific Conductance	364	µS/cm	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Specific Conductance	669	µS/cm	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	Specific Conductance	669	µS/cm	CALA-12-12533
LAO-3a	4.7	06/07/16	WG	Temperature	11.2	deg C	CALA-16-116841
LAO-3a	4.7	06/08/15	WG	Temperature	10.73	deg C	CALA-15-97424
LAO-3a	4.7	06/06/14	WG	Temperature	10.43	deg C	CALA-14-79456
LAO-3a	4.7	06/06/13	WG	Temperature	10.26	deg C	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Temperature	9.08	deg C	CALA-12-12526
LAO-3a	4.7	06/07/16	WG	Turbidity	1.3	NTU[d]	CALA-16-116841
LAO-3a	4.7	06/08/15	WG	Turbidity	4.1	NTU	CALA-15-97424
LAO-3a	4.7	06/06/14	WG	Turbidity	2.4	NTU	CALA-14-79456
LAO-3a	4.7	06/06/13	WG	Turbidity	1.7	NTU	CALA-13-33421
LAO-3a	4.7	04/02/12	WG	Turbidity	0.82	NTU	CALA-12-12526
LAO-3a	4.7	04/02/12	WG	Turbidity	0.82	NTU	CALA-12-12533
LLAO-4	5.24	06/16/16	WG	Dissolved Oxygen	3.66	mg/L	CALA-16-116843
LLAO-4	5.24	05/28/15	WG	Dissolved Oxygen	3.57	mg/L	CALA-15-97426
LLAO-4	5.24	06/17/14	WG	Dissolved Oxygen	1.34	mg/L	CALA-14-79458
LLAO-4	5.24	06/12/13	WG	Dissolved Oxygen	3.78	mg/L	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Dissolved Oxygen	3.91	mg/L	CALA-12-12549
LLAO-4	5.24	06/16/16	WG	Flow (in gpm)	0.22	gpm	CALA-16-116843
LLAO-4	5.24	05/28/15	WG	Flow (in gpm)	0.22	gpm	CALA-15-97426
LLAO-4	5.24	06/17/14	WG	Flow (in gpm)	0.24	gpm	CALA-14-79458
LLAO-4	5.24	08/11/11	WG	Flow (in gpm)	0.24	gpm	CALA-11-25901
LLAO-4	5.24	06/21/11	WG	Flow (in gpm)	0.22	gpm	CALA-11-14674
LLAO-4	5.24	06/16/16	WG	Oxidation-Reduction Potential	166.5	mV	CALA-16-116843

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
LLAO-4	5.24	05/28/15	WG	Oxidation-Reduction Potential	126.1	mV	CALA-15-97426
LLAO-4	5.24	06/17/14	WG	Oxidation-Reduction Potential	70	mV	CALA-14-79458
LLAO-4	5.24	06/12/13	WG	Oxidation-Reduction Potential	151.9	mV	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Oxidation-Reduction Potential	12.2	mV	CALA-12-12549
LLAO-4	5.24	06/16/16	WG	pH	6.5	SU	CALA-16-116843
LLAO-4	5.24	05/28/15	WG	pH	6.9	SU	CALA-15-97426
LLAO-4	5.24	06/17/14	WG	pH	6.67	SU	CALA-14-79458
LLAO-4	5.24	06/12/13	WG	pH	6.93	SU	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	pH	6.93	SU	CALA-12-12549
LLAO-4	5.24	06/16/16	WG	Specific Conductance	454	µS/cm	CALA-16-116843
LLAO-4	5.24	05/28/15	WG	Specific Conductance	462	µS/cm	CALA-15-97426
LLAO-4	5.24	06/17/14	WG	Specific Conductance	572	µS/cm	CALA-14-79458
LLAO-4	5.24	06/12/13	WG	Specific Conductance	399	µS/cm	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Specific Conductance	464	µS/cm	CALA-12-12549
LLAO-4	5.24	06/16/16	WG	Temperature	13.43	deg C	CALA-16-116843
LLAO-4	5.24	05/28/15	WG	Temperature	13.17	deg C	CALA-15-97426
LLAO-4	5.24	06/17/14	WG	Temperature	13.76	deg C	CALA-14-79458
LLAO-4	5.24	06/12/13	WG	Temperature	14.03	deg C	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Temperature	11.87	deg C	CALA-12-12549
LLAO-4	5.24	06/16/16	WG	Turbidity	0.46	NTU	CALA-16-116843
LLAO-4	5.24	05/28/15	WG	Turbidity	0.23	NTU	CALA-15-97426
LLAO-4	5.24	06/17/14	WG	Turbidity	0.3	NTU	CALA-14-79458
LLAO-4	5.24	06/12/13	WG	Turbidity	0.7	NTU	CALA-13-33423
LLAO-4	5.24	04/09/12	WG	Turbidity	0.24	NTU	CALA-12-12549
PAO-5n	7.43	06/08/16	WG	Dissolved Oxygen	1.6	mg/L	CAPU-16-116864
PAO-5n	7.43	06/04/15	WG	Dissolved Oxygen	3.39	mg/L	CAPA-15-97485
PAO-5n	7.43	06/08/16	WG	Flow (in gpm)	0.14	gpm	CAPU-16-116864

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
PAO-5n	7.43	06/04/15	WG	Flow (in gpm)	0.11	gpm	CAPA-15-97485
PAO-5n	7.43	06/08/16	WG	Oxidation-Reduction Potential	179	mV	CAPU-16-116864
PAO-5n	7.43	06/04/15	WG	Oxidation-Reduction Potential	188.3	mV	CAPA-15-97485
PAO-5n	7.43	06/08/16	WG	pH	6.16	SU	CAPU-16-116864
PAO-5n	7.43	06/04/15	WG	pH	6.2	SU	CAPA-15-97485
PAO-5n	7.43	06/08/16	WG	Specific Conductance	525	µS/cm	CAPU-16-116864
PAO-5n	7.43	06/04/15	WG	Specific Conductance	500	µS/cm	CAPA-15-97485
PAO-5n	7.43	06/08/16	WG	Temperature	9.94	deg C	CAPU-16-116864
PAO-5n	7.43	06/04/15	WG	Temperature	11.78	deg C	CAPA-15-97485
PAO-5n	7.43	06/08/16	WG	Turbidity	9.2	NTU	CAPU-16-116864
PAO-5n	7.43	06/04/15	WG	Turbidity	8.1	NTU	CAPA-15-97485
POI-4	159	05/31/16	WG	Dissolved Oxygen	7.45	mg/L	CAPU-16-116865
POI-4	159	06/01/15	WG	Dissolved Oxygen	6.93	mg/L	CAPA-15-97486
POI-4	159	06/02/14	WG	Dissolved Oxygen	7.07	mg/L	CAPU-14-79426
POI-4	159	06/03/13	WG	Dissolved Oxygen	7.4	mg/L	CAPU-13-34782
POI-4	159	04/12/12	WG	Dissolved Oxygen	7.86	mg/L	CAPU-12-12562
POI-4	159	05/31/16	WG	Flow (in gpm)	0.74	gpm	CAPU-16-116865
POI-4	159	06/01/15	WG	Flow (in gpm)	0.77	gpm	CAPA-15-97486
POI-4	159	06/02/14	WG	Flow (in gpm)	0.79	gpm	CAPU-14-79426
POI-4	159	03/11/11	WG	Flow (in gpm)	0.3	gpm	CAPU-11-5282
POI-4	159	01/22/09	WG	Flow (in gpm)	0.64	gpm	CAPU-09-1779
POI-4	159	05/31/16	WG	Oxidation-Reduction Potential	137.3	mV	CAPU-16-116865
POI-4	159	06/01/15	WG	Oxidation-Reduction Potential	167.8	mV	CAPA-15-97486
POI-4	159	06/02/14	WG	Oxidation-Reduction Potential	92.2	mV	CAPU-14-79426
POI-4	159	06/03/13	WG	Oxidation-Reduction Potential	130.1	mV	CAPU-13-34782
POI-4	159	04/12/12	WG	Oxidation-Reduction Potential	53.2	mV	CAPU-12-12562
POI-4	159	05/31/16	WG	pH	6.92	SU	CAPU-16-116865

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
POI-4	159	06/01/15	WG	pH	6.95	SU	CAPA-15-97486
POI-4	159	06/02/14	WG	pH	6.98	SU	CAPU-14-79426
POI-4	159	06/03/13	WG	pH	6.96	SU	CAPU-13-34782
POI-4	159	04/12/12	WG	pH	7.06	SU	CAPU-12-12562
POI-4	159	05/31/16	WG	Specific Conductance	569	µS/cm	CAPU-16-116865
POI-4	159	06/01/15	WG	Specific Conductance	540	µS/cm	CAPA-15-97486
POI-4	159	06/02/14	WG	Specific Conductance	595	µS/cm	CAPU-14-79426
POI-4	159	06/03/13	WG	Specific Conductance	600	µS/cm	CAPU-13-34782
POI-4	159	04/12/12	WG	Specific Conductance	575	µS/cm	CAPU-12-12562
POI-4	159	05/31/16	WG	Temperature	12.58	deg C	CAPU-16-116865
POI-4	159	06/01/15	WG	Temperature	12.57	deg C	CAPA-15-97486
POI-4	159	06/02/14	WG	Temperature	11.86	deg C	CAPU-14-79426
POI-4	159	06/03/13	WG	Temperature	11.65	deg C	CAPU-13-34782
POI-4	159	04/12/12	WG	Temperature	11.58	deg C	CAPU-12-12562
POI-4	159	05/31/16	WG	Turbidity	6.5	NTU	CAPU-16-116865
POI-4	159	06/01/15	WG	Turbidity	2.3	NTU	CAPA-15-97486
POI-4	159	06/02/14	WG	Turbidity	15.3	NTU	CAPU-14-79426
POI-4	159	06/03/13	WG	Turbidity	9.9	NTU	CAPU-13-34782
POI-4	159	04/12/12	WG	Turbidity	0.5	NTU	CAPU-12-12562
R-2	906.4	05/31/16	WG	Dissolved Oxygen	3.67	mg/L	CAPU-16-116866
R-2	906.4	06/11/15	WG	Dissolved Oxygen	3.56	mg/L	CAPA-15-97487
R-2	906.4	06/05/14	WG	Dissolved Oxygen	3.73	mg/L	CAPU-14-79427
R-2	906.4	06/12/13	WG	Dissolved Oxygen	5.17	mg/L	CAPU-13-34775
R-2	906.4	04/17/12	WG	Dissolved Oxygen	5.43	mg/L	CAPU-12-12563
R-2	906.4	05/31/16	WG	Flow (in gpm)	1.36	gpm	CAPU-16-116866
R-2	906.4	06/11/15	WG	Flow (in gpm)	1.57	gpm	CAPA-15-97487
R-2	906.4	06/05/14	WG	Flow (in gpm)	1.5	gpm	CAPU-14-79427

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-2	906.4	03/09/11	WG	Flow (in gpm)	1.09	gpm	CAPU-11-5292
R-2	906.4	01/14/09	WG	Flow (in gpm)	1.75	gpm	CAPU-09-1797
R-2	906.4	05/31/16	WG	Oxidation-Reduction Potential	96.5	mV	CAPU-16-116866
R-2	906.4	06/11/15	WG	Oxidation-Reduction Potential	178.9	mV	CAPA-15-97487
R-2	906.4	06/05/14	WG	Oxidation-Reduction Potential	127.4	mV	CAPU-14-79427
R-2	906.4	06/12/13	WG	Oxidation-Reduction Potential	115.7	mV	CAPU-13-34775
R-2	906.4	04/17/12	WG	Oxidation-Reduction Potential	190.4	mV	CAPU-12-12563
R-2	906.4	05/31/16	WG	pH	6.89	SU	CAPU-16-116866
R-2	906.4	06/11/15	WG	pH	6.89	SU	CAPA-15-97487
R-2	906.4	06/05/14	WG	pH	6.78	SU	CAPU-14-79427
R-2	906.4	06/12/13	WG	pH	7.38	SU	CAPU-13-34775
R-2	906.4	04/17/12	WG	pH	7.43	SU	CAPU-12-12563
R-2	906.4	05/31/16	WG	Specific Conductance	165	µS/cm	CAPU-16-116866
R-2	906.4	06/11/15	WG	Specific Conductance	150	µS/cm	CAPA-15-97487
R-2	906.4	06/05/14	WG	Specific Conductance	145	µS/cm	CAPU-14-79427
R-2	906.4	06/12/13	WG	Specific Conductance	143	µS/cm	CAPU-13-34775
R-2	906.4	04/17/12	WG	Specific Conductance	144	µS/cm	CAPU-12-12563
R-2	906.4	05/31/16	WG	Temperature	23.77	deg C	CAPU-16-116866
R-2	906.4	06/11/15	WG	Temperature	23.4	deg C	CAPA-15-97487
R-2	906.4	06/05/14	WG	Temperature	23.73	deg C	CAPU-14-79427
R-2	906.4	06/12/13	WG	Temperature	24.92	deg C	CAPU-13-34775
R-2	906.4	04/17/12	WG	Temperature	22.94	deg C	CAPU-12-12563
R-2	906.4	05/31/16	WG	Turbidity	2.5	NTU	CAPU-16-116866
R-2	906.4	06/11/15	WG	Turbidity	4.8	NTU	CAPA-15-97487
R-2	906.4	06/05/14	WG	Turbidity	1.1	NTU	CAPU-14-79427
R-2	906.4	06/12/13	WG	Turbidity	0.94	NTU	CAPU-13-34775
R-2	906.4	04/17/12	WG	Turbidity	1.68	NTU	CAPU-12-12563

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-24	825	06/06/16	WG	Dissolved Oxygen	3.07	mg/L	CAPU-16-116867
R-24	825	06/02/15	WG	Dissolved Oxygen	3.13	mg/L	CAPA-15-97488
R-24	825	06/03/14	WG	Dissolved Oxygen	3.03	mg/L	CAPU-14-79428
R-24	825	06/04/13	WG	Dissolved Oxygen	4.61	mg/L	CAPU-13-34776
R-24	825	04/11/12	WG	Dissolved Oxygen	3.56	mg/L	CAPU-12-12564
R-24	825	06/06/16	WG	Flow (in gpm)	4.48	gpm	CAPU-16-116867
R-24	825	06/02/15	WG	Flow (in gpm)	4.35	gpm	CAPA-15-97488
R-24	825	06/03/14	WG	Flow (in gpm)	4.48	gpm	CAPU-14-79428
R-24	825	03/11/11	WG	Flow (in gpm)	4.15	gpm	CAPU-11-5296
R-24	825	01/15/09	WG	Flow (in gpm)	4.25	gpm	CAPU-09-1804
R-24	825	06/06/16	WG	Oxidation-Reduction Potential	112	mV	CAPU-16-116867
R-24	825	06/02/15	WG	Oxidation-Reduction Potential	96.5	mV	CAPA-15-97488
R-24	825	06/03/14	WG	Oxidation-Reduction Potential	86.7	mV	CAPU-14-79428
R-24	825	06/04/13	WG	Oxidation-Reduction Potential	177.9	mV	CAPU-13-34776
R-24	825	04/11/12	WG	Oxidation-Reduction Potential	11.1	mV	CAPU-12-12564
R-24	825	06/06/16	WG	pH	7.87	SU	CAPU-16-116867
R-24	825	06/02/15	WG	pH	7.84	SU	CAPA-15-97488
R-24	825	06/03/14	WG	pH	7.87	SU	CAPU-14-79428
R-24	825	06/04/13	WG	pH	7.8	SU	CAPU-13-34776
R-24	825	04/11/12	WG	pH	7.9	SU	CAPU-12-12564
R-24	825	06/06/16	WG	Specific Conductance	253	µS/cm	CAPU-16-116867
R-24	825	06/02/15	WG	Specific Conductance	269	µS/cm	CAPA-15-97488
R-24	825	06/03/14	WG	Specific Conductance	259	µS/cm	CAPU-14-79428
R-24	825	06/04/13	WG	Specific Conductance	242	µS/cm	CAPU-13-34776
R-24	825	04/11/12	WG	Specific Conductance	251	µS/cm	CAPU-12-12564
R-24	825	06/06/16	WG	Temperature	28.79	deg C	CAPU-16-116867
R-24	825	06/02/15	WG	Temperature	29.14	deg C	CAPA-15-97488

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-24	825	06/03/14	WG	Temperature	29.37	deg C	CAPU-14-79428
R-24	825	06/04/13	WG	Temperature	29.09	deg C	CAPU-13-34776
R-24	825	04/11/12	WG	Temperature	28.85	deg C	CAPU-12-12564
R-24	825	06/06/16	WG	Turbidity	0.98	NTU	CAPU-16-116867
R-24	825	06/02/15	WG	Turbidity	0.55	NTU	CAPA-15-97488
R-24	825	06/03/14	WG	Turbidity	2.3	NTU	CAPU-14-79428
R-24	825	06/04/13	WG	Turbidity	0.6	NTU	CAPU-13-34776
R-24	825	04/11/12	WG	Turbidity	0.74	NTU	CAPU-12-12564
R-3	974.5	06/06/16	WG	Dissolved Oxygen	4.55	mg/L	CAPU-16-116868
R-3	974.5	06/10/15	WG	Dissolved Oxygen	4.72	mg/L	CAPA-15-97489
R-3	974.5	06/04/14	WG	Dissolved Oxygen	4.71	mg/L	CAPU-14-79429
R-3	974.5	06/10/13	WG	Dissolved Oxygen	4.49	mg/L	CAPU-13-34777
R-3	974.5	04/16/12	WG	Dissolved Oxygen	4.33	mg/L	CAPU-12-12565
R-3	974.5	06/06/16	WG	Flow (in gpm)	5.88	gpm	CAPU-16-116868
R-3	974.5	06/10/15	WG	Flow (in gpm)	6	gpm	CAPA-15-97489
R-3	974.5	06/04/14	WG	Flow (in gpm)	6	gpm	CAPU-14-79429
R-3	974.5	08/24/11	WG	Flow (in gpm)	5.5	gpm	CAPU-11-26381
R-3	974.5	08/24/11	WG	Flow (in gpm)	5.5	gpm	CAPU-11-26370
R-3	974.5	08/24/11	WG	Flow (in gpm)	5.5	gpm	CAPU-11-26372
R-3	974.5	08/24/11	WG	Flow (in gpm)	5.5	gpm	CAPU-11-26368
R-3	974.5	06/13/11	WG	Flow (in gpm)	5.77	gpm	CAPU-11-14678
R-3	974.5	06/13/11	WG	Flow (in gpm)	5.77	gpm	CAPU-11-14680
R-3	974.5	06/13/11	WG	Flow (in gpm)	5.77	gpm	CAPU-11-13932
R-3	974.5	06/13/11	WG	Flow (in gpm)	5.77	gpm	CAPU-11-14676
R-3	974.5	06/06/16	WG	Oxidation-Reduction Potential	146.4	mV	CAPU-16-116868
R-3	974.5	06/10/15	WG	Oxidation-Reduction Potential	150.5	mV	CAPA-15-97489
R-3	974.5	06/04/14	WG	Oxidation-Reduction Potential	27.8	mV	CAPU-14-79429

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-3	974.5	06/10/13	WG	Oxidation-Reduction Potential	82.1	mV	CAPU-13-34777
R-3	974.5	04/16/12	WG	Oxidation-Reduction Potential	1.7	mV	CAPU-12-12565
R-3	974.5	06/06/16	WG	pH	8.39	SU	CAPU-16-116868
R-3	974.5	06/10/15	WG	pH	8.34	SU	CAPA-15-97489
R-3	974.5	06/04/14	WG	pH	8.27	SU	CAPU-14-79429
R-3	974.5	06/10/13	WG	pH	8.2	SU	CAPU-13-34777
R-3	974.5	04/16/12	WG	pH	8.31	SU	CAPU-12-12565
R-3	974.5	06/06/16	WG	Specific Conductance	205	µS/cm	CAPU-16-116868
R-3	974.5	06/10/15	WG	Specific Conductance	188	µS/cm	CAPA-15-97489
R-3	974.5	06/04/14	WG	Specific Conductance	188	µS/cm	CAPU-14-79429
R-3	974.5	06/10/13	WG	Specific Conductance	187	µS/cm	CAPU-13-34777
R-3	974.5	04/16/12	WG	Specific Conductance	194	µS/cm	CAPU-12-12565
R-3	974.5	06/06/16	WG	Temperature	25.42	deg C	CAPU-16-116868
R-3	974.5	06/10/15	WG	Temperature	25.07	deg C	CAPA-15-97489
R-3	974.5	06/04/14	WG	Temperature	25.59	deg C	CAPU-14-79429
R-3	974.5	06/10/13	WG	Temperature	25.5	deg C	CAPU-13-34777
R-3	974.5	04/16/12	WG	Temperature	24.22	deg C	CAPU-12-12565
R-3	974.5	06/06/16	WG	Turbidity	0.28	NTU	CAPU-16-116868
R-3	974.5	06/10/15	WG	Turbidity	0.45	NTU	CAPA-15-97489
R-3	974.5	06/04/14	WG	Turbidity	0.27	NTU	CAPU-14-79429
R-3	974.5	06/10/13	WG	Turbidity	0.1	NTU	CAPU-13-34777
R-3	974.5	04/16/12	WG	Turbidity	0.34	NTU	CAPU-12-12565
R-3i	215.2	06/02/16	WG	Dissolved Oxygen	7.8	mg/L	CAPU-16-116869
R-3i	215.2	06/01/15	WG	Dissolved Oxygen	7.77	mg/L	CAPA-15-97490
R-3i	215.2	06/04/14	WG	Dissolved Oxygen	8.66	mg/L	CAPU-14-79430
R-3i	215.2	06/05/13	WG	Dissolved Oxygen	8.48	mg/L	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Dissolved Oxygen	9.16	mg/L	CAPU-12-12566

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-3i	215.2	06/02/16	WG	Flow (in gpm)	0.77	gpm	CAPU-16-116869
R-3i	215.2	06/01/15	WG	Flow (in gpm)	0.73	gpm	CAPA-15-97490
R-3i	215.2	06/04/14	WG	Flow (in gpm)	0.98	gpm	CAPU-14-79430
R-3i	215.2	03/22/11	WG	Flow (in gpm)	0.7	gpm	CAPU-11-5287
R-3i	215.2	07/22/09	WG	Flow (in gpm)	0.52	gpm	CAPU-09-11231
R-3i	215.2	06/02/16	WG	Oxidation-Reduction Potential	159.9	mV	CAPU-16-116869
R-3i	215.2	06/01/15	WG	Oxidation-Reduction Potential	126.4	mV	CAPA-15-97490
R-3i	215.2	06/04/14	WG	Oxidation-Reduction Potential	107.9	mV	CAPU-14-79430
R-3i	215.2	06/05/13	WG	Oxidation-Reduction Potential	184.8	mV	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Oxidation-Reduction Potential	183.7	mV	CAPU-12-12566
R-3i	215.2	06/02/16	WG	pH	7.5	SU	CAPU-16-116869
R-3i	215.2	06/01/15	WG	pH	7.49	SU	CAPA-15-97490
R-3i	215.2	06/04/14	WG	pH	7.38	SU	CAPU-14-79430
R-3i	215.2	06/05/13	WG	pH	7.41	SU	CAPU-13-34778
R-3i	215.2	04/13/12	WG	pH	7.48	SU	CAPU-12-12566
R-3i	215.2	06/02/16	WG	Specific Conductance	551	µS/cm	CAPU-16-116869
R-3i	215.2	06/01/15	WG	Specific Conductance	542	µS/cm	CAPA-15-97490
R-3i	215.2	06/04/14	WG	Specific Conductance	540	µS/cm	CAPU-14-79430
R-3i	215.2	06/05/13	WG	Specific Conductance	509	µS/cm	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Specific Conductance	536	µS/cm	CAPU-12-12566
R-3i	215.2	06/02/16	WG	Temperature	14.04	deg C	CAPU-16-116869
R-3i	215.2	06/01/15	WG	Temperature	12.98	deg C	CAPA-15-97490
R-3i	215.2	06/04/14	WG	Temperature	12.99	deg C	CAPU-14-79430
R-3i	215.2	06/05/13	WG	Temperature	13.94	deg C	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Temperature	13.54	deg C	CAPU-12-12566
R-3i	215.2	06/02/16	WG	Turbidity	4.2	NTU	CAPU-16-116869
R-3i	215.2	06/01/15	WG	Turbidity	0.5	NTU	CAPA-15-97490

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-3i	215.2	06/04/14	WG	Turbidity	6.4	NTU	CAPU-14-79430
R-3i	215.2	06/05/13	WG	Turbidity	6.8	NTU	CAPU-13-34778
R-3i	215.2	04/13/12	WG	Turbidity	6.2	NTU	CAPU-12-12566
R-4	792.9	05/31/16	WG	Dissolved Oxygen	4.32	mg/L	CAPU-16-116870
R-4	792.9	06/02/15	WG	Dissolved Oxygen	3.01	mg/L	CAPA-15-97491
R-4	792.9	06/03/14	WG	Dissolved Oxygen	3.1	mg/L	CAPU-14-79431
R-4	792.9	06/10/13	WG	Dissolved Oxygen	3.95	mg/L	CAPU-13-34779
R-4	792.9	04/13/12	WG	Dissolved Oxygen	4.96	mg/L	CAPU-12-12567
R-4	792.9	05/31/16	WG	Flow (in gpm)	3.3	gpm	CAPU-16-116870
R-4	792.9	06/02/15	WG	Flow (in gpm)	3.37	gpm	CAPA-15-97491
R-4	792.9	06/03/14	WG	Flow (in gpm)	3.49	gpm	CAPU-14-79431
R-4	792.9	03/16/11	WG	Flow (in gpm)	3.2	gpm	CAPU-11-5298
R-4	792.9	01/22/09	WG	Flow (in gpm)	3.5	gpm	CAPU-09-1799
R-4	792.9	05/31/16	WG	Oxidation-Reduction Potential	105.6	mV	CAPU-16-116870
R-4	792.9	06/02/15	WG	Oxidation-Reduction Potential	102.4	mV	CAPA-15-97491
R-4	792.9	06/03/14	WG	Oxidation-Reduction Potential	45.6	mV	CAPU-14-79431
R-4	792.9	06/10/13	WG	Oxidation-Reduction Potential	97.4	mV	CAPU-13-34779
R-4	792.9	04/13/12	WG	Oxidation-Reduction Potential	-2.4	mV	CAPU-12-12567
R-4	792.9	05/31/16	WG	pH	8.12	SU	CAPU-16-116870
R-4	792.9	06/02/15	WG	pH	8.32	SU	CAPA-15-97491
R-4	792.9	06/03/14	WG	pH	8.13	SU	CAPU-14-79431
R-4	792.9	06/10/13	WG	pH	8.2	SU	CAPU-13-34779
R-4	792.9	04/13/12	WG	pH	7.98	SU	CAPU-12-12567
R-4	792.9	05/31/16	WG	Specific Conductance	194	µS/cm	CAPU-16-116870
R-4	792.9	06/02/15	WG	Specific Conductance	195	µS/cm	CAPA-15-97491
R-4	792.9	06/03/14	WG	Specific Conductance	192	µS/cm	CAPU-14-79431
R-4	792.9	06/10/13	WG	Specific Conductance	190	µS/cm	CAPU-13-34779

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-4	792.9	04/13/12	WG	Specific Conductance	190	µS/cm	CAPU-12-12567
R-4	792.9	05/31/16	WG	Temperature	24.72	deg C	CAPU-16-116870
R-4	792.9	06/02/15	WG	Temperature	25.57	deg C	CAPA-15-97491
R-4	792.9	06/03/14	WG	Temperature	25.58	deg C	CAPU-14-79431
R-4	792.9	06/10/13	WG	Temperature	25.21	deg C	CAPU-13-34779
R-4	792.9	04/13/12	WG	Temperature	23.31	deg C	CAPU-12-12567
R-4	792.9	05/31/16	WG	Turbidity	0.39	NTU	CAPU-16-116870
R-4	792.9	06/02/15	WG	Turbidity	0.48	NTU	CAPA-15-97491
R-4	792.9	06/03/14	WG	Turbidity	0.14	NTU	CAPU-14-79431
R-4	792.9	06/10/13	WG	Turbidity	0.1	NTU	CAPU-13-34779
R-4	792.9	04/13/12	WG	Turbidity	0.45	NTU	CAPU-12-12567
TW-2Ar	102	06/01/16	WG	Dissolved Oxygen	8.04	mg/L	CAPU-16-116871
TW-2Ar	102	06/01/15	WG	Dissolved Oxygen	8.24	mg/L	CAPA-15-97492
TW-2Ar	102	06/02/14	WG	Dissolved Oxygen	8.08	mg/L	CAPU-14-79432
TW-2Ar	102	06/06/13	WG	Dissolved Oxygen	8.18	mg/L	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Dissolved Oxygen	8.17	mg/L	CAPU-12-12568
TW-2Ar	102	06/01/16	WG	Flow (in gpm)	0.82	gpm	CAPU-16-116871
TW-2Ar	102	06/01/15	WG	Flow (in gpm)	0.97	gpm	CAPA-15-97492
TW-2Ar	102	06/02/14	WG	Flow (in gpm)	0.69	gpm	CAPU-14-79432
TW-2Ar	102	08/29/11	WG	Flow (in gpm)	0.6	gpm	CAPU-11-26362
TW-2Ar	102	08/29/11	WG	Flow (in gpm)	0.6	gpm	CAPU-11-26364
TW-2Ar	102	08/29/11	WG	Flow (in gpm)	0.6	gpm	CAPU-11-26374
TW-2Ar	102	08/29/11	WG	Flow (in gpm)	0.6	gpm	CAPU-11-26366
TW-2Ar	102	06/20/11	WG	Flow (in gpm)	0.5	gpm	CAPU-11-13928
TW-2Ar	102	06/20/11	WG	Flow (in gpm)	0.5	gpm	CAPU-11-14686
TW-2Ar	102	06/20/11	WG	Flow (in gpm)	0.5	gpm	CAPU-11-14682
TW-2Ar	102	06/20/11	WG	Flow (in gpm)	0.5	gpm	CAPU-11-14684

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
TW-2Ar	102	06/01/16	WG	Oxidation-Reduction Potential	-2.4	mV	CAPU-16-116871
TW-2Ar	102	06/01/15	WG	Oxidation-Reduction Potential	151.2	mV	CAPA-15-97492
TW-2Ar	102	06/02/14	WG	Oxidation-Reduction Potential	92.3	mV	CAPU-14-79432
TW-2Ar	102	06/06/13	WG	Oxidation-Reduction Potential	128.6	mV	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Oxidation-Reduction Potential	64	mV	CAPU-12-12568
TW-2Ar	102	06/01/16	WG	pH	6.79	SU	CAPU-16-116871
TW-2Ar	102	06/01/15	WG	pH	6.68	SU	CAPA-15-97492
TW-2Ar	102	06/02/14	WG	pH	6.77	SU	CAPU-14-79432
TW-2Ar	102	06/06/13	WG	pH	6.69	SU	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	pH	6.81	SU	CAPU-12-12568
TW-2Ar	102	06/01/16	WG	Specific Conductance	401	µS/cm	CAPU-16-116871
TW-2Ar	102	06/01/15	WG	Specific Conductance	380	µS/cm	CAPA-15-97492
TW-2Ar	102	06/02/14	WG	Specific Conductance	387	µS/cm	CAPU-14-79432
TW-2Ar	102	06/06/13	WG	Specific Conductance	385	µS/cm	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Specific Conductance	385	µS/cm	CAPU-12-12568
TW-2Ar	102	06/01/16	WG	Temperature	15.57	deg C	CAPU-16-116871
TW-2Ar	102	06/01/15	WG	Temperature	14.02	deg C	CAPA-15-97492
TW-2Ar	102	06/02/14	WG	Temperature	14.74	deg C	CAPU-14-79432
TW-2Ar	102	06/06/13	WG	Temperature	14.8	deg C	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Temperature	13.6	deg C	CAPU-12-12568
TW-2Ar	102	06/01/16	WG	Turbidity	12.8	NTU	CAPU-16-116871
TW-2Ar	102	06/01/15	WG	Turbidity	1.9	NTU	CAPA-15-97492
TW-2Ar	102	06/02/14	WG	Turbidity	1.6	NTU	CAPU-14-79432
TW-2Ar	102	06/06/13	WG	Turbidity	0.6	NTU	CAPU-13-34780
TW-2Ar	102	04/17/12	WG	Turbidity	0.49	NTU	CAPU-12-12568
Vine Tree Spring	—[e]	06/16/16	WG	Dissolved Oxygen	7.66	mg/L	CALA-16-116845
Vine Tree Spring	—	12/08/15	WG	Dissolved Oxygen	7.32	mg/L	CALA-16-106806

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
Vine Tree Spring	—	05/28/15	WG	Dissolved Oxygen	7.55	mg/L	CALA-15-97436
Vine Tree Spring	—	12/16/14	WG	Dissolved Oxygen	7.77	mg/L	CALA-15-90561
Vine Tree Spring	—	06/18/14	WG	Dissolved Oxygen	7.55	mg/L	CALA-14-79460
Vine Tree Spring	—	12/17/13	WG	Dissolved Oxygen	7.97	mg/L	CALA-14-46053
Vine Tree Spring	—	06/16/16	WG	Flow (in gpm)	4.76	gpm	CALA-16-116845
Vine Tree Spring	—	12/08/15	WG	Flow (in gpm)	5.83	gpm	CALA-16-106806
Vine Tree Spring	—	05/28/15	WG	Flow (in gpm)	4.5	gpm	CALA-15-97436
Vine Tree Spring	—	12/16/14	WG	Flow (in gpm)	0.75	gpm	CALA-15-90561
Vine Tree Spring	—	06/18/14	WG	Flow (in gpm)	7.6	gpm	CALA-14-79460
Vine Tree Spring	—	12/12/11	WG	Flow (in gpm)	20	gpm	CAWR-12-1756
Vine Tree Spring	—	06/16/16	WG	pH	7.66	SU	CALA-16-116845
Vine Tree Spring	—	12/08/15	WG	pH	7.12	SU	CALA-16-106806
Vine Tree Spring	—	05/28/15	WG	pH	7.66	SU	CALA-15-97436
Vine Tree Spring	—	12/16/14	WG	pH	7.55	SU	CALA-15-90561
Vine Tree Spring	—	06/18/14	WG	pH	7.96	SU	CALA-14-79460
Vine Tree Spring	—	12/17/13	WG	pH	7.04	SU	CALA-14-46053
Vine Tree Spring	—	06/16/16	WG	Specific Conductance	330.5	µS/cm	CALA-16-116845
Vine Tree Spring	—	12/08/15	WG	Specific Conductance	304	µS/cm	CALA-16-106806
Vine Tree Spring	—	05/28/15	WG	Specific Conductance	298	µS/cm	CALA-15-97436
Vine Tree Spring	—	12/16/14	WG	Specific Conductance	296	µS/cm	CALA-15-90561
Vine Tree Spring	—	06/18/14	WG	Specific Conductance	295	µS/cm	CALA-14-79460
Vine Tree Spring	—	12/17/13	WG	Specific Conductance	296	µS/cm	CALA-14-46053
Vine Tree Spring	—	06/16/16	WG	Temperature	14.9	deg C	CALA-16-116845
Vine Tree Spring	—	12/08/15	WG	Temperature	12.71	deg C	CALA-16-106806
Vine Tree Spring	—	05/28/15	WG	Temperature	15.96	deg C	CALA-15-97436
Vine Tree Spring	—	12/16/14	WG	Temperature	11.2	deg C	CALA-15-90561
Vine Tree Spring	—	06/18/14	WG	Temperature	14.26	deg C	CALA-14-79460

Table A-1 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
Vine Tree Spring	—	12/17/13	WG	Temperature	11.83	deg C	CALA-14-46053
Vine Tree Spring	—	06/16/16	WG	Turbidity	1.09	NTU	CALA-16-116845
Vine Tree Spring	—	12/08/15	WG	Turbidity	2.2	NTU	CALA-16-106806
Vine Tree Spring	—	05/28/15	WG	Turbidity	0.1	NTU	CALA-15-97436
Vine Tree Spring	—	12/16/14	WG	Turbidity	5.6	NTU	CALA-15-90561
Vine Tree Spring	—	06/18/14	WG	Turbidity	2.6	NTU	CALA-14-79460
Vine Tree Spring	—	12/17/13	WG	Turbidity	2.2	NTU	CALA-14-46053

[a] WG = Groundwater.

[b] gpm = Gallons per minute.

[c] SU = Standard unit.

[d] NTU = Nephelometric turbidity unit.

[e] — = Not applicable.

Table A-2
Mortandad and Sandia Watersheds, General Surveillance Monitoring Group
Field Parameter Results, Including Results from Previous Four Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
MCO-7	39	05/13/16	WG[a]	Dissolved Oxygen	7.22	mg/L	CAMO-16-116067
MCO-7	39	02/12/16	WG	Dissolved Oxygen	7.75	mg/L	CAMO-16-110081
MCO-7	39	11/17/15	WG	Dissolved Oxygen	8.44	mg/L	CAMO-16-106412
MCO-7	39	08/20/15	WG	Dissolved Oxygen	7.16	mg/L	CAMO-15-102570
MCO-7	39	08/17/15	WG	Dissolved Oxygen	7.01	mg/L	CAMO-15-102740
MCO-7	39	05/18/15	WG	Dissolved Oxygen	7.4	mg/L	CAMO-15-95736
MCO-7	39	11/24/14	WG	Dissolved Oxygen	8.26	mg/L	CAMO-15-91033
MCO-7	39	05/13/16	WG	Flow (in gpm[b])	0.9	gpm	CAMO-16-116067
MCO-7	39	02/12/16	WG	Flow (in gpm)	0.14	gpm	CAMO-16-110081
MCO-7	39	11/17/15	WG	Flow (in gpm)	0.19	gpm	CAMO-16-106412
MCO-7	39	08/20/15	WG	Flow (in gpm)	0.06	gpm	CAMO-15-102570
MCO-7	39	08/17/15	WG	Flow (in gpm)	0.07	gpm	CAMO-15-102740
MCO-7	39	05/18/15	WG	Flow (in gpm)	0.05	gpm	CAMO-15-95736
MCO-7	39	11/24/14	WG	Flow (in gpm)	0.16	gpm	CAMO-15-91033
MCO-7	39	05/13/16	WG	Oxidation-Reduction Potential	214.4	mV	CAMO-16-116067
MCO-7	39	02/12/16	WG	Oxidation-Reduction Potential	195.8	mV	CAMO-16-110081
MCO-7	39	11/17/15	WG	Oxidation-Reduction Potential	165.1	mV	CAMO-16-106412
MCO-7	39	08/20/15	WG	Oxidation-Reduction Potential	177.5	mV	CAMO-15-102570
MCO-7	39	08/17/15	WG	Oxidation-Reduction Potential	186.7	mV	CAMO-15-102740
MCO-7	39	05/18/15	WG	Oxidation-Reduction Potential	199	mV	CAMO-15-95736
MCO-7	39	11/24/14	WG	Oxidation-Reduction Potential	224.1	mV	CAMO-15-91033
MCO-7	39	05/13/16	WG	pH	6.78	SU[c]	CAMO-16-116067
MCO-7	39	02/12/16	WG	pH	6.68	SU	CAMO-16-110081
MCO-7	39	11/17/15	WG	pH	6.91	SU	CAMO-16-106412

Table A-2 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
MCO-7	39	08/20/15	WG	pH	6.62	SU	CAMO-15-102570
MCO-7	39	08/17/15	WG	pH	6.58	SU	CAMO-15-102740
MCO-7	39	05/18/15	WG	pH	6.83	SU	CAMO-15-95736
MCO-7	39	11/24/14	WG	pH	6.63	SU	CAMO-15-91033
MCO-7	39	05/13/16	WG	Specific Conductance	539	µS/cm	CAMO-16-116067
MCO-7	39	02/12/16	WG	Specific Conductance	523	µS/cm	CAMO-16-110081
MCO-7	39	11/17/15	WG	Specific Conductance	534	µS/cm	CAMO-16-106412
MCO-7	39	08/20/15	WG	Specific Conductance	726	µS/cm	CAMO-15-102570
MCO-7	39	08/17/15	WG	Specific Conductance	779	µS/cm	CAMO-15-102740
MCO-7	39	05/18/15	WG	Specific Conductance	721	µS/cm	CAMO-15-95736
MCO-7	39	11/24/14	WG	Specific Conductance	716	µS/cm	CAMO-15-91033
MCO-7	39	05/13/16	WG	Temperature	11.19	deg C	CAMO-16-116067
MCO-7	39	02/12/16	WG	Temperature	10.49	deg C	CAMO-16-110081
MCO-7	39	11/17/15	WG	Temperature	10.46	deg C	CAMO-16-106412
MCO-7	39	08/20/15	WG	Temperature	11.7	deg C	CAMO-15-102570
MCO-7	39	08/17/15	WG	Temperature	11.79	deg C	CAMO-15-102740
MCO-7	39	05/18/15	WG	Temperature	11.33	deg C	CAMO-15-95736
MCO-7	39	11/24/14	WG	Temperature	10.27	deg C	CAMO-15-91033
MCO-7	39	05/13/16	WG	Turbidity	1.6	NTU[d]	CAMO-16-116067
MCO-7	39	02/12/16	WG	Turbidity	0.6	NTU	CAMO-16-110081
MCO-7	39	11/17/15	WG	Turbidity	2.16	NTU	CAMO-16-106412
MCO-7	39	08/20/15	WG	Turbidity	0.5	NTU	CAMO-15-102570
MCO-7	39	08/17/15	WG	Turbidity	0.9	NTU	CAMO-15-102740
MCO-7	39	05/18/15	WG	Turbidity	0.7	NTU	CAMO-15-95736
MCO-7	39	11/24/14	WG	Turbidity	1.8	NTU	CAMO-15-91033
R-10 S1	874	11/23/15	WG	Dissolved Oxygen	6.24	mg/L	CASA-16-106237

Table A-2 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-10 S1	874	09/02/15	WG	Dissolved Oxygen	6.08	mg/L	CASA-15-102630
R-10 S1	874	12/21/14	WG	Dissolved Oxygen	6.23	mg/L	CASA-15-90306
R-10 S1	874	07/17/13	WG	Dissolved Oxygen	6.07	mg/L	CASA-13-37007
R-10 S1	874	08/22/12	WG	Dissolved Oxygen	5.94	mg/L	CASA-12-21766
R-10 S1	874	11/23/15	WG	Flow (in gpm)	12.5	GPM	CASA-16-106237
R-10 S1	874	09/02/15	WG	Flow (in gpm)	12.5	GPM	CASA-15-102630
R-10 S1	874	12/21/14	WG	Flow (in gpm)	12.5	GPM	CASA-15-90306
R-10 S1	874	08/09/11	WG	Flow (in gpm)	0.43	GPM	CASA-11-24769
R-10 S1	874	05/26/11	WG	Flow (in gpm)	11.5	GPM	CASA-11-10826
R-10 S1	874	11/23/15	WG	Oxidation-Reduction Potential	148	mV	CASA-16-106237
R-10 S1	874	09/02/15	WG	Oxidation-Reduction Potential	101.2	mV	CASA-15-102630
R-10 S1	874	12/21/14	WG	Oxidation-Reduction Potential	112	mV	CASA-15-90306
R-10 S1	874	07/17/13	WG	Oxidation-Reduction Potential	147.2	mV	CASA-13-37007
R-10 S1	874	08/22/12	WG	Oxidation-Reduction Potential	60.5	mV	CASA-12-21766
R-10 S1	874	11/23/15	WG	pH	7.99	SU	CASA-16-106237
R-10 S1	874	09/02/15	WG	pH	8.01	SU	CASA-15-102630
R-10 S1	874	12/21/14	WG	pH	7.98	SU	CASA-15-90306
R-10 S1	874	07/17/13	WG	pH	8.14	SU	CASA-13-37007
R-10 S1	874	08/22/12	WG	pH	9.02	SU	CASA-12-21766
R-10 S1	874	11/23/15	WG	Specific Conductance	180	µS/cm	CASA-16-106237
R-10 S1	874	09/02/15	WG	Specific Conductance	180	µS/cm	CASA-15-102630
R-10 S1	874	12/21/14	WG	Specific Conductance	194	µS/cm	CASA-15-90306
R-10 S1	874	07/17/13	WG	Specific Conductance	180	µS/cm	CASA-13-37007
R-10 S1	874	08/22/12	WG	Specific Conductance	157	µS/cm	CASA-12-21766
R-10 S1	874	11/23/15	WG	Temperature	23.39	deg C	CASA-16-106237
R-10 S1	874	09/02/15	WG	Temperature	24.05	deg C	CASA-15-102630

Table A-2 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-10 S1	874	12/21/14	WG	Temperature	23.18	deg C	CASA-15-90306
R-10 S1	874	07/17/13	WG	Temperature	23.46	deg C	CASA-13-37007
R-10 S1	874	08/22/12	WG	Temperature	23.35	deg C	CASA-12-21766
R-10 S1	874	11/23/15	WG	Turbidity	0.36	NTU	CASA-16-106237
R-10 S1	874	09/02/15	WG	Turbidity	0.9	NTU	CASA-15-102630
R-10 S1	874	12/21/14	WG	Turbidity	0.34	NTU	CASA-15-90306
R-10 S1	874	07/17/13	WG	Turbidity	0.3	NTU	CASA-13-37007
R-10 S1	874	08/22/12	WG	Turbidity	0.35	NTU	CASA-12-21766
R-10a	690	05/16/16	WG	Dissolved Oxygen	4.84	mg/L	CASA-16-115478
R-10a	690	11/23/15	WG	Dissolved Oxygen	4.85	mg/L	CASA-16-106239
R-10a	690	09/02/15	WG	Dissolved Oxygen	5.73	mg/L	CASA-15-102632
R-10a	690	05/22/15	WG	Dissolved Oxygen	5.58	mg/L	CASA-15-95817
R-10a	690	12/21/14	WG	Dissolved Oxygen	4.92	mg/L	CASA-15-90308
R-10a	690	07/17/13	WG	Dissolved Oxygen	5.81	mg/L	CASA-13-37009
R-10a	690	05/16/16	WG	Flow (in gpm)	5.66	gpm	CASA-16-115478
R-10a	690	11/23/15	WG	Flow (in gpm)	5.36	gpm	CASA-16-106239
R-10a	690	09/02/15	WG	Flow (in gpm)	5.3	gpm	CASA-15-102632
R-10a	690	05/22/15	WG	Flow (in gpm)	4.9	gpm	CASA-15-95817
R-10a	690	12/21/14	WG	Flow (in gpm)	5	gpm	CASA-15-90308
R-10a	690	08/09/11	WG	Flow (in gpm)	5	gpm	CASA-11-24757
R-10a	690	08/09/11	WG	Flow (in gpm)	5	gpm	CASA-11-24759
R-10a	690	08/09/11	WG	Flow (in gpm)	5	gpm	CASA-11-24777
R-10a	690	08/09/11	WG	Flow (in gpm)	5	gpm	CASA-11-24745
R-10a	690	08/09/11	WG	Flow (in gpm)	5	gpm	CASA-11-24747
R-10a	690	08/09/11	WG	Flow (in gpm)	5	gpm	CASA-11-24749
R-10a	690	05/16/16	WG	Oxidation-Reduction Potential	125.9	mV	CASA-16-115478

Table A-2 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-10a	690	11/23/15	WG	Oxidation-Reduction Potential	98.9	mV	CASA-16-106239
R-10a	690	09/02/15	WG	Oxidation-Reduction Potential	52.6	mV	CASA-15-102632
R-10a	690	05/22/15	WG	Oxidation-Reduction Potential	123	mV	CASA-15-95817
R-10a	690	12/21/14	WG	Oxidation-Reduction Potential	140.9	mV	CASA-15-90308
R-10a	690	07/17/13	WG	Oxidation-Reduction Potential	98.5	mV	CASA-13-37009
R-10a	690	05/16/16	WG	pH	7.81	SU	CASA-16-115478
R-10a	690	11/23/15	WG	pH	7.67	SU	CASA-16-106239
R-10a	690	09/02/15	WG	pH	7.99	SU	CASA-15-102632
R-10a	690	05/22/15	WG	pH	7.91	SU	CASA-15-95817
R-10a	690	12/21/14	WG	pH	7.93	SU	CASA-15-90308
R-10a	690	07/17/13	WG	pH	7.77	SU	CASA-13-37009
R-10a	690	05/16/16	WG	Specific Conductance	232	µS/cm	CASA-16-115478
R-10a	690	11/23/15	WG	Specific Conductance	235	µS/cm	CASA-16-106239
R-10a	690	09/02/15	WG	Specific Conductance	233	µS/cm	CASA-15-102632
R-10a	690	05/22/15	WG	Specific Conductance	232	µS/cm	CASA-15-95817
R-10a	690	12/21/14	WG	Specific Conductance	237	µS/cm	CASA-15-90308
R-10a	690	07/17/13	WG	Specific Conductance	240	µS/cm	CASA-13-37009
R-10a	690	05/16/16	WG	Temperature	21.38	deg C	CASA-16-115478
R-10a	690	11/23/15	WG	Temperature	20.62	deg C	CASA-16-106239
R-10a	690	09/02/15	WG	Temperature	21.49	deg C	CASA-15-102632
R-10a	690	05/22/15	WG	Temperature	21.54	deg C	CASA-15-95817
R-10a	690	12/21/14	WG	Temperature	20.7	deg C	CASA-15-90308
R-10a	690	07/17/13	WG	Temperature	20.84	deg C	CASA-13-37009
R-10a	690	05/16/16	WG	Turbidity	0.41	NTU	CASA-16-115478
R-10a	690	11/23/15	WG	Turbidity	4.9	NTU	CASA-16-106239
R-10a	690	09/02/15	WG	Turbidity	0.5	NTU	CASA-15-102632

Table A-2 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-10a	690	05/22/15	WG	Turbidity	2.8	NTU	CASA-15-95817
R-10a	690	12/21/14	WG	Turbidity	1.1	NTU	CASA-15-90308
R-10a	690	07/17/13	WG	Turbidity	3.2	NTU	CASA-13-37009
R-34	883.7	05/16/16	WG	Dissolved Oxygen	5.89	mg/L	CAMO-16-115255
R-34	883.7	11/24/15	WG	Dissolved Oxygen	5.39	mg/L	CAMO-16-106103
R-34	883.7	09/03/15	WG	Dissolved Oxygen	5.8	mg/L	CAMO-15-102582
R-34	883.7	05/22/15	WG	Dissolved Oxygen	5.78	mg/L	CAMO-15-95781
R-34	883.7	03/11/15	WG	Dissolved Oxygen	5.84	mg/L	CAMO-15-92483
R-34	883.7	12/22/14	WG	Dissolved Oxygen	6.4	mg/L	CAMO-15-90282
R-34	883.7	05/16/16	WG	Flow (in gpm)	2.94	gpm	CAMO-16-115255
R-34	883.7	11/24/15	WG	Flow (in gpm)	2.8	gpm	CAMO-16-106103
R-34	883.7	09/03/15	WG	Flow (in gpm)	2.75	gpm	CAMO-15-102582
R-34	883.7	05/22/15	WG	Flow (in gpm)	2.61	gpm	CAMO-15-95781
R-34	883.7	03/11/15	WG	Flow (in gpm)	2.85	gpm	CAMO-15-92483
R-34	883.7	12/22/14	WG	Flow (in gpm)	2.86	gpm	CAMO-15-90282
R-34	883.7	05/16/16	WG	Oxidation-Reduction Potential	163.3	mV	CAMO-16-115255
R-34	883.7	11/24/15	WG	Oxidation-Reduction Potential	81.3	mV	CAMO-16-106103
R-34	883.7	09/03/15	WG	Oxidation-Reduction Potential	109	mV	CAMO-15-102582
R-34	883.7	05/22/15	WG	Oxidation-Reduction Potential	110.5	mV	CAMO-15-95781
R-34	883.7	03/11/15	WG	Oxidation-Reduction Potential	219.1	mV	CAMO-15-92483
R-34	883.7	12/22/14	WG	Oxidation-Reduction Potential	170.4	mV	CAMO-15-90282
R-34	883.7	05/16/16	WG	pH	8.31	SU	CAMO-16-115255
R-34	883.7	11/24/15	WG	pH	8.17	SU	CAMO-16-106103
R-34	883.7	09/03/15	WG	pH	8.19	SU	CAMO-15-102582
R-34	883.7	05/22/15	WG	pH	8.41	SU	CAMO-15-95781
R-34	883.7	03/11/15	WG	pH	8.38	SU	CAMO-15-92483

Table A-2 (continued)

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-34	883.7	12/22/14	WG	pH	8.27	SU	CAMO-15-90282
R-34	883.7	05/16/16	WG	Specific Conductance	190	µS/cm	CAMO-16-115255
R-34	883.7	11/24/15	WG	Specific Conductance	161	µS/cm	CAMO-16-106103
R-34	883.7	09/03/15	WG	Specific Conductance	155	µS/cm	CAMO-15-102582
R-34	883.7	05/22/15	WG	Specific Conductance	161	µS/cm	CAMO-15-95781
R-34	883.7	03/11/15	WG	Specific Conductance	156	µS/cm	CAMO-15-92483
R-34	883.7	12/22/14	WG	Specific Conductance	158	µS/cm	CAMO-15-90282
R-34	883.7	05/16/16	WG	Temperature	20.82	deg C	CAMO-16-115255
R-34	883.7	11/24/15	WG	Temperature	20.95	deg C	CAMO-16-106103
R-34	883.7	09/03/15	WG	Temperature	22.68	deg C	CAMO-15-102582
R-34	883.7	05/22/15	WG	Temperature	22.18	deg C	CAMO-15-95781
R-34	883.7	03/11/15	WG	Temperature	22.22	deg C	CAMO-15-92483
R-34	883.7	12/22/14	WG	Temperature	21.45	deg C	CAMO-15-90282
R-34	883.7	05/16/16	WG	Turbidity	1	NTU	CAMO-16-115255
R-34	883.7	11/24/15	WG	Turbidity	1.5	NTU	CAMO-16-106103
R-34	883.7	09/03/15	WG	Turbidity	1.2	NTU	CAMO-15-102582
R-34	883.7	05/22/15	WG	Turbidity	0.92	NTU	CAMO-15-95781
R-34	883.7	03/11/15	WG	Turbidity	2.7	NTU	CAMO-15-92483
R-34	883.7	12/22/14	WG	Turbidity	2	NTU	CAMO-15-90282

[a] WG = Groundwater.

[b] gpm = Gallons per minute.

[c] SU = Standard unit.

[d] NTU = Nephelometric turbidity unit.

Appendix B

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

Appendix C

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

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

Acronyms and Abbreviations

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

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

Analytical Laboratory Qualifier Codes

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

Analytical Laboratory Qualifier Codes (continued)

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

Analytical Laboratory Qualifier Codes (continued)

Code	Description
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 Mortandad and Sandia Watersheds, General Surveillance 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
Sandia below Wetlands	—	02/10/15	WS	UF	INIT	FD	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-68.182	—	—	—	permil	Y	—	NQ	2015-781	CASA-15-92722	EES6
Sandia below Wetlands	—	02/10/15	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-69.622	—	—	—	permil	Y	—	NQ	2015-781	CASA-15-92726	EES6
Sandia below Wetlands	—	07/29/14	WS	UF	INIT	FD	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-42.88	—	—	—	permil	Y	—	NQ	2014-4085	CASA-14-85192	EES6
Sandia below Wetlands	—	07/29/14	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-42.76	—	—	—	permil	Y	—	NQ	2014-4085	CASA-14-85211	EES6
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	FD	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-70.2805	—	—	—	permil	N	—	NQ	10-3166	CASA-10-16692	EES6
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-69.8393	—	—	—	permil	N	—	NQ	10-3166	CASA-10-16688	EES6
Sandia below Wetlands	—	01/29/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-77.0597	—	—	—	permil	N	—	NQ	10-1503	CASA-10-9412	EES6
Sandia below Wetlands	—	11/04/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-66.5	—	—	—	permil	N	—	NQ	10-350	CASA-10-3595	EES6
Sandia below Wetlands	—	02/10/15	WS	UF	INIT	FD	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.01	—	—	—	permil	Y	—	NQ	2015-781	CASA-15-92722	EES6
Sandia below Wetlands	—	02/10/15	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.16	—	—	—	permil	Y	—	NQ	2015-781	CASA-15-92726	EES6
Sandia below Wetlands	—	07/29/14	WS	UF	INIT	FD	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-6.3	—	—	—	permil	Y	—	NQ	2014-4085	CASA-14-85192	EES6
Sandia below Wetlands	—	07/29/14	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-6.21	—	—	—	permil	Y	—	NQ	2014-4085	CASA-14-85211	EES6
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	FD	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-9.57	—	—	—	permil	N	—	NQ	10-3166	CASA-10-16692	EES6
Sandia below Wetlands	—	05/13/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-9.57	—	—	—	permil	N	—	NQ	10-3166	CASA-10-16688	EES6
Sandia below Wetlands	—	01/29/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.19	—	—	—	permil	N	—	NQ	10-1503	CASA-10-9412	EES6
Sandia below Wetlands	—	11/04/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-8.54	—	—	—	permil	N	—	NQ	10-350	CASA-10-3595	EES6
Sandia right fork at Pwr Plant	—	02/10/15	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-70.151	—	—	—	permil	Y	—	NQ	2015-781	CASA-15-92727	EES6
Sandia right fork at Pwr Plant	—	11/04/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-70.4173	—	—	—	permil	Y	—	NQ	2015-221	CASA-15-90337	EES6
Sandia right fork at Pwr Plant	—	05/07/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-68.3132	—	—	—	permil	N	—	NQ	10-3101	CASA-10-16680	EES6
Sandia right fork at Pwr Plant	—	02/01/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-69.4245	—	—	—	permil	N	—	NQ	10-1539	CASA-10-9111	EES6
Sandia right fork at Pwr Plant	—	11/02/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELTAH-2	Y	-69	—	—	—	permil	N	—	NQ	10-318	CASA-10-3558	EES6
Sandia right fork at Pwr Plant	—	02/10/15	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.17	—	—	—	permil	Y	—	NQ	2015-781	CASA-15-92727	EES6
Sandia right fork at Pwr Plant	—	11/04/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.0151	—	—	—	permil	Y	—	NQ	2015-221	CASA-15-90337	EES6
Sandia right fork at Pwr Plant	—	05/07/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-9.82	—	—	—	permil	N	—	NQ	10-3101	CASA-10-16680	EES6
Sandia right fork at Pwr Plant	—	02/01/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-9.94	—	—	—	permil	N	—	NQ	10-1539	CASA-10-9111	EES6
Sandia right fork at Pwr Plant	—	11/02/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-9.42	—	—	—	permil	N	—	NQ	10-318	CASA-10-3558	EES6

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.56	—	—	0.01	SU	Y	H	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	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	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.57	—	—	0.01	SU	Y	H	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.48	—	—	0.01	SU	Y	H	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.16	—	—	0.01	SU	Y	H	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.09	—	—	0.01	SU	Y	H	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	122	—	—	0.33	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	80.7	—	—	0.725	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	136	—	—	0.725	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	130	—	—	0.725	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	126	—	—	0.725	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	111	—	—	0.725	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0111	0.00586	0.0254	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00335	0.0102	0.048	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.006	0.00529	0.0346	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0213	0.011	0.0463	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00273	0.00273	0.0492	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00718	0.00633	0.0432	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.22	—	—	1.7	µg/L	Y	J	J	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	5.2	—	—	1.7	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	2.27	—	—	1.7	µg/L	Y	J	J	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	74.6	—	—	1	µg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	49.4	—	—	1	µg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	57.3	—	—	1	µg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	51.5	—	—	1	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	93.2	—	—	1	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	94.4	—	—	1	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	40.2	—	—	15	µg/L	Y	J	J	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	41.4	—	—	15	µg/L	Y	J	J	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	62.6	—	—	15	µg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	55.3	—	—	15	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	49	—	—	15	µg/L	Y	J	J	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	48.9	—	—	15	µg/L	Y	J	J	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.09	—	—	0.067	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.275	—	—	0.067	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.31	—	—	0.067	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	1.3	—	—	0.067	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.551	—	—	0.067	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.56	—	—	0.067	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	27.6	—	—	0.05	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	19.1	—	—	0.05	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.1	—	—	0.05	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.1	—	—	0.05	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38	—	—	0.05	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38.1	—	—	0.05	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.458	1.14	4.1	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.775	1.03	3.87	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.47	1.48	5.2	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.46	1.8	6.79	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.3	1.51	5.61	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.411	1.48	5.36	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.6	—	—	0.67	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	55.4	—	—	0.67	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17	—	—	0.335	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	14.8	—	—	0.335	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	114	—	—	0.67	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	110	—	—	0.67	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.1	1.13	4.8	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.03	1.04	3.63	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.725	1.1	4.85	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.479	1.98	6.6	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.819	1.37	5.34	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.21	1.32	4.58	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.619	—	—	0.033	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.647	—	—	0.033	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.665	—	—	0.033	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.798	—	—	0.033	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.628	—	—	0.033	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.631	—	—	0.033	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.199	0.807	2.97	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.136	0.782	2.97	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.4	0.681	2.08	—	pCi/L	Y	—	NQ	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.781	0.665	2.39	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	3.09	1.21	2.97	—	pCi/L	Y	—	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.07	0.994	2.81	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	52.4	1.05	1.83	—	pCi/L	Y	—	NQ	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	34.3	1.54	1.95	—	pCi/L	Y	—	NQ	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	40.5	1.88	2.86	—	pCi/L	Y	—	NQ	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	42.4	0.919	1.7	—	pCi/L	Y	—	NQ	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	78.1	3.15	2.38	—	pCi/L	Y	—	NQ	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	70.5	2.97	2.52	—	pCi/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	95.4	—	—	0.453	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.3	—	—	0.453	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	76.3	—	—	0.453	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73	—	—	0.453	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	132	—	—	0.453	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	132	—	—	0.453	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.39	—	—	0.11	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.78	—	—	0.11	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.16	—	—	0.11	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.9	—	—	0.11	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.92	—	—	0.11	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.95	—	—	0.11	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	129	—	—	3.3	µg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	134	—	—	0.165	µg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	172	—	—	1.65	µg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	225	—	—	0.165	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	181	—	—	0.165	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	182	—	—	0.165	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.65	2.08	7.75	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.695	1.93	6.75	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.549	2.96	10.5	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.81	3.46	10.9	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.09	3.28	10.9	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.834	3.13	10.9	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.537	—	—	0.5	µg/L	Y	J	J	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.65	—	—	0.5	µg/L	Y	J	J	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.567	—	—	0.5	µg/L	Y	J	J	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.25	—	—	0.5	µg/L	Y	J	U	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	0.931	—	—	0.5	µg/L	Y	J	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	N	0.981	—	—	0.5	µg/L	Y	J	U	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.579	—	—	0.017	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.407	—	—	0.085	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.13	—	—	0.085	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.846	—	—	0.017	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.76	—	—	0.085	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.76	—	—	0.085	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.475	—	—	0.05	µg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.239	—	—	0.05	µg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.482	—	—	0.05	µg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.552	—	—	0.05	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.391	—	—	0.05	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.402	—	—	0.05	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.012	0.00746	0.0362	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00177	0.00714	0.0353	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00408	0.00408	0.0226	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00211	0.00365	0.0197	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00865	0.047	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0226	0.00795	0.0432	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00199	0.00772	0.0345	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00866	0.0107	0.0444	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00817	0.00646	0.0372	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0105	0.00698	0.0415	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00274	0.00474	0.0398	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00251	0.00665	0.0366	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	7.67	—	—	0.05	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	6.1	—	—	0.05	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	6.79	—	—	0.05	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.18	—	—	0.05	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.33	—	—	0.05	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	8.37	—	—	0.05	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.77	19.2	39.1	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-1.27	15.2	48.9	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.8	17.2	56.6	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.2	20.2	75.7	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.2	17.8	57.7	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	0.808	18.4	64.3	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	44.9	—	—	0.053	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	46.4	—	—	0.053	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	45.1	—	—	0.053	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.1	—	—	0.053	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.1	—	—	0.053	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	46.2	—	—	0.053	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	52.3	—	—	0.1	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	42.1	—	—	0.1	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	51.7	—	—	0.1	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	46.9	—	—	0.1	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	74.9	—	—	0.1	mg/L	Y	—	J-	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	75.4	—	—	0.1	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.4	0.626	4.21	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.31	0.959	3.74	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.273	1.61	6.3	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.25	1.54	6.33	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.107	1.49	5.53	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.14	1.47	5.13	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	474	—	—	1	µS/cm	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	366	—	—	3.63	µS/cm	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	376	—	—	1	µS/cm	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	381	—	—	1	µS/cm	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	65.5	—	—	1	µS/cm	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	658	—	—	1	µS/cm	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	167	—	—	1	µg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	114	—	—	1	µg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	140	—	—	1	µg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	126	—	—	1	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	240	—	—	1	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	240	—	—	1	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	15.5	0.56	0.376	—	pCi/L	Y	—	NQ	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	12.4	0.434	0.442	—	pCi/L	Y	—	NQ	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	12.4	0.641	0.715	—	pCi/L	Y	—	J	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	17	0.568	0.488	—	pCi/L	Y	—	J	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	29.3	0.596	0.506	—	pCi/L	Y	—	NQ	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	Y	29	0.737	0.499	—	pCi/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	37.6	—	—	1.33	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.96	—	—	0.133	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.9	—	—	0.665	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19.8	—	—	0.665	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	26.7	—	—	0.133	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	26.7	—	—	0.133	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	Y	0.651	—	—	0.45	µg/L	Y	J	J	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	µg/L	Y	U	U	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	µg/L	Y	U	U	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	µg/L	Y	U	U	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	µg/L	Y	U	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Thallium	Tl	N	2	—	—	0.45	µg/L	Y	U	U	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	2.68	—	—	2.5	µg/L	Y	J	J	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	247	—	—	3.4	mg/L	Y	—	J	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	241	—	—	3.4	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	223	—	—	3.4	mg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	256	—	—	3.4	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	369	—	—	3.4	mg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	367	—	—	3.4	mg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0764	—	—	0.033	mg/L	Y	J	J	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0655	—	—	0.033	mg/L	Y	J	J	2015-1373	CALA-15-97424	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.136	—	—	0.033	mg/L	Y	—	NQ	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0836	—	—	0.033	mg/L	Y	J	J	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.103	—	—	0.035	mg/L	Y	—	J-	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0765	—	—	0.035	mg/L	Y	J	J	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.15	—	—	0.33	mg/L	Y	—	NQ	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.85	—	—	0.33	mg/L	Y	—	NQ	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.18	—	—	0.33	mg/L	Y	—	NQ	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.68	—	—	0.33	mg/L	Y	—	NQ	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.33	—	—	0.33	mg/L	Y	—	NQ	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.42	—	—	0.33	mg/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.108	—	—	0.02	mg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.149	—	—	0.017	mg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.127	—	—	0.017	mg/L	Y	—	J	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.296	—	—	0.017	mg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.198	—	—	0.017	mg/L	Y	—	U	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.166	—	—	0.017	mg/L	Y	—	U	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.567	—	—	0.067	µg/L	Y	—	NQ	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.26	—	—	0.067	µg/L	Y	—	NQ	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.08	—	—	0.067	µg/L	Y	—	NQ	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.22	—	—	0.067	µg/L	Y	—	NQ	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.16	—	—	0.067	µg/L	Y	—	NQ	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.16	—	—	0.067	µg/L	Y	—	NQ	12-1180	CALA-12-13008	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.276	0.0268	0.0539	—	pCi/L	Y	—	NQ	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0774	0.0263	0.0975	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.675	0.0471	0.0819	—	pCi/L	Y	—	NQ	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.621	0.0406	0.0557	—	pCi/L	Y	—	NQ	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.439	0.0448	0.0831	—	pCi/L	Y	—	J	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.394	0.0415	0.0731	—	pCi/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0109	0.0109	0.0642	—	pCi/L	Y	U	U	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00456	0.0137	0.0617	—	pCi/L	Y	U	U	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0235	0.0111	0.0687	—	pCi/L	Y	U	U	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0345	0.0121	0.0433	—	pCi/L	Y	U	U	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0211	0.0127	0.048	—	pCi/L	Y	U	U	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0223	0.0105	0.0422	—	pCi/L	Y	U	U	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.192	0.0218	0.0558	—	pCi/L	Y	—	J	2016-1335	CALA-16-116841	GELC
LAO-3a	4.7	06/08/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0774	0.0212	0.0693	—	pCi/L	Y	—	J-	2015-1373	CALA-15-97424	GELC
LAO-3a	4.7	06/06/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.342	0.0332	0.046	—	pCi/L	Y	—	NQ	2014-3518	CALA-14-79456	GELC
LAO-3a	4.7	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.383	0.0316	0.0356	—	pCi/L	Y	—	NQ	2013-934	CALA-13-33421	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.362	0.0352	0.0534	—	pCi/L	Y	—	J	12-1180	CALA-12-12526	GELC
LAO-3a	4.7	04/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.421	0.0363	0.047	—	pCi/L	Y	—	NQ	12-1180	CALA-12-13007	GELC
LAO-3a	4.7	06/07/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.62	—	—	1	µg/L	Y	J	J	2016-1335	CALA-16-116847	GELC
LAO-3a	4.7	06/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.09	—	—	1	µg/L	Y	J	J	2015-1373	CALA-15-97443	GELC
LAO-3a	4.7	06/06/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.81	—	—	1	µg/L	Y	J	J	2014-3518	CALA-14-79462	GELC
LAO-3a	4.7	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.14	—	—	1	µg/L	Y	J	J	2013-934	CALA-13-33429	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.26	—	—	1	µg/L	Y	J	J	12-1180	CALA-12-12533	GELC
LAO-3a	4.7	04/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.06	—	—	1	µg/L	Y	J	J	12-1180	CALA-12-13008	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.51	—	—	0.01	SU	Y	H	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.63	—	—	0.01	SU	Y	H	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	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	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.22	—	—	0.01	SU	Y	H	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.15	—	—	0.01	SU	Y	H	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	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	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.7	—	—	0.725	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	177	—	—	0.725	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	203	—	—	0.725	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	200	—	—	0.725	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	157	—	—	0.725	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	174	—	—	0.725	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00406	0.00497	0.0233	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00676	0.00748	0.0434	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00315	0.00577	0.0418	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00907	0.013	0.0478	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00862	0.00643	0.0437	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00557	0.00491	0.0334	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.55	—	—	1.7	µg/L	Y	J	J	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	128	—	—	1	µg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	134	—	—	1	µg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	179	—	—	1	µg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	181	—	—	1	µg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	118	—	—	1	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	130	—	—	1	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	58	—	—	15	µg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	62.8	—	—	15	µg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	66.7	—	—	15	µg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	68.8	—	—	15	µg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	59.4	—	—	15	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	63.5	—	—	15	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.132	—	—	0.067	mg/L	Y	J	J	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.131	—	—	0.067	mg/L	Y	J	J	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.248	—	—	0.067	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.242	—	—	0.067	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.124	—	—	0.067	mg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.123	—	—	0.067	mg/L	Y	J	J	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	46.1	—	—	0.05	mg/L	Y	—	J+	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	46.5	—	—	0.05	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	64	—	—	0.05	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	63.4	—	—	0.05	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	41	—	—	0.05	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	46.7	—	—	0.05	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.01	1.3	3.73	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.94	1.95	7.93	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.07	1.27	4.29	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.482	1.56	5.16	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.83	1.02	3.86	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0105	1.3	4.71	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	21.8	—	—	0.335	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	22.3	—	—	0.335	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	43.4	—	—	0.67	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.1	—	—	0.67	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	18.8	—	—	0.335	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	25.7	—	—	0.134	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.18	1.26	4.54	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.697	1.86	7.44	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.184	1.38	4.98	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.45	1.51	5.4	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.47	1.27	3.47	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.32	1.28	5.21	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.337	—	—	0.033	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.462	—	—	0.033	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.299	—	—	0.033	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.319	—	—	0.033	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.452	—	—	0.033	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.427	—	—	0.033	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.393	0.703	2.93	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.83	0.647	1.7	—	pCi/L	Y	—	NQ	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.213	0.559	1.95	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.219	0.633	2.25	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.233	0.512	2.44	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	3.09	1.05	2.93	—	pCi/L	Y	—	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.14	0.382	1.22	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4	0.464	1.34	—	pCi/L	Y	—	NQ	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.15	0.556	1.79	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	1.95	0.558	1.65	—	pCi/L	Y	—	NQ	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.32	0.567	1.76	—	pCi/L	Y	—	NQ	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.46	0.795	2.57	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	135	—	—	0.453	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	137	—	—	0.453	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	187	—	—	0.453	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	186	—	—	0.453	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	120	—	—	0.453	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	136	—	—	0.453	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.87	—	—	0.11	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.04	—	—	0.11	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.71	—	—	0.11	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.65	—	—	0.11	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.39	—	—	0.11	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.78	—	—	0.11	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.933	—	—	0.165	µg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02	—	—	0.165	µg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.598	—	—	0.165	µg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.638	—	—	0.165	µg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.5	—	—	0.165	µg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.792	2.3	8.37	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	7.23	3.61	13.9	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.55	2.78	10.3	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.93	2.77	10.2	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.35	2.09	7.03	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.94	2.85	9.59	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.833	—	—	0.5	µg/L	Y	J	J	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.22	—	—	0.5	µg/L	Y	J	J	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.14	—	—	0.5	µg/L	Y	J	J	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.19	—	—	0.5	µg/L	Y	J	J	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.71	—	—	0.5	µg/L	Y	J	J	2013-951	CALA-13-33431	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	17.8	—	—	0.5	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0414	—	—	0.017	mg/L	Y	J	J	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0188	—	—	0.017	mg/L	Y	J	J	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.496	—	—	0.017	mg/L	Y	—	J	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.054	—	—	0.017	mg/L	Y	—	U	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0259	—	—	0.017	mg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.25	—	—	0.085	mg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0136	0.00582	0.0352	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00387	0.00612	0.0262	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00518	0.00518	0.0268	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00229	0.00397	0.0236	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00253	0.0076	0.0237	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0105	0.0114	0.0382	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0213	0.00699	0.0336	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-2.26E-09	0.00774	0.0328	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0104	0.00733	0.051	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0137	0.00793	0.045	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.038	0.0141	0.0499	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00176	0.00634	0.0293	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.49	—	—	0.05	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.52	—	—	0.05	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.93	—	—	0.05	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.9	—	—	0.05	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.44	—	—	0.05	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.59	—	—	0.05	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.1	18.8	34.3	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	45.3	26.5	108	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-1.52	17.4	69.4	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-9.74	14.5	58.5	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.34	12.9	34.3	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.31	15.8	60.2	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	59.8	—	—	0.053	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	57	—	—	0.053	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	62.5	—	—	0.053	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	63.2	—	—	0.053	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.4	—	—	0.053	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.2	—	—	0.053	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	41	—	—	0.1	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	41.7	—	—	0.1	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	47.3	—	—	0.1	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	46.9	—	—	0.1	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	37	—	—	0.1	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	36.5	—	—	0.1	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.47	1.14	4.58	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.026	1.9	7.29	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.45	1.05	3.46	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.41	1.4	3.81	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.129	1.06	3.39	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.57	1.51	5.14	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	452	—	—	1	µS/cm	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	439	—	—	3.63	µS/cm	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	574	—	—	1	µS/cm	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	577	—	—	1	µS/cm	Y	—	NQ	2014-3574	CALA-14-79448	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	412	—	—	1	µS/cm	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	440	—	—	1	µS/cm	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	381	—	—	1	µg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	451	—	—	1	µg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	532	—	—	1	µg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	533	—	—	1	µg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	357	—	—	1	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	395	—	—	1	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.277	0.118	0.481	—	pCi/L	Y	U	U	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.124	0.105	0.427	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.123	0.112	0.387	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0948	0.113	0.397	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0592	0.13	0.49	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00266	0.138	0.489	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.9	—	—	0.133	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18.4	—	—	0.665	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20	—	—	0.133	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19.9	—	—	0.133	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	16.4	—	—	0.133	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	17.5	—	—	0.133	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	21.8	—	—	2.5	µg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	200	—	—	50	µg/L	Y	U	U	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	N	200	—	—	50	µg/L	Y	U	U	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	Y	0.32	—	—	0.3	µg/L	Y	J	J	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	284	—	—	3.4	mg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	299	—	—	3.4	mg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	377	—	—	3.4	mg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	351	—	—	3.4	mg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	256	—	—	3.4	mg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	303	—	—	3.4	mg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.777	—	—	0.33	mg/L	Y	J	J	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.63	—	—	0.33	mg/L	Y	J	J-	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.35	—	—	0.33	mg/L	Y	—	NQ	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.46	—	—	0.33	mg/L	Y	—	NQ	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.766	—	—	0.33	mg/L	Y	J	J	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.812	—	—	0.33	mg/L	Y	J	J	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0414	—	—	0.02	mg/L	Y	J	J	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0753	—	—	0.017	mg/L	Y	—	U	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.032	—	—	0.017	mg/L	Y	J	J	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0257	—	—	0.017	mg/L	Y	J	J	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0382	—	—	0.017	mg/L	Y	J	J	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.139	—	—	0.017	mg/L	Y	—	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.57	—	—	0.067	µg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.02	—	—	0.067	µg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.85	—	—	0.067	µg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.87	—	—	0.067	µg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.43	—	—	0.067	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.2	—	—	0.067	µg/L	Y	U	U	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.881	0.0467	0.0597	—	pCi/L	Y	—	J	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.992	0.0582	0.0818	—	pCi/L	Y	—	NQ	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.1	0.0522	0.0628	—	pCi/L	Y	—	NQ	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.18	0.0568	0.0699	—	pCi/L	Y	—	NQ	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.61	0.0472	0.0793	—	pCi/L	Y	—	NQ	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.13	0.0525	0.058	—	pCi/L	Y	—	NQ	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0937	0.0189	0.071	—	pCi/L	Y	—	NQ	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0164	0.00962	0.0522	—	pCi/L	Y	U	U	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.045	0.0131	0.0526	—	pCi/L	Y	U	U	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0334	0.0125	0.0586	—	pCi/L	Y	U	U	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0178	0.0126	0.0617	—	pCi/L	Y	U	U	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0295	0.0102	0.0335	—	pCi/L	Y	U	U	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.555	0.0375	0.0617	—	pCi/L	Y	—	NQ	2016-1411	CALA-16-116843	GELC
LLAO-4	5.24	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.708	0.049	0.0584	—	pCi/L	Y	—	NQ	2015-1319	CALA-15-97426	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.743	0.0427	0.0353	—	pCi/L	Y	—	NQ	2014-3574	CALA-14-79458	GELC
LLAO-4	5.24	06/17/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.708	0.0441	0.0392	—	pCi/L	Y	—	NQ	2014-3574	CALA-14-79447	GELC
LLAO-4	5.24	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.44	0.0408	0.0507	—	pCi/L	Y	—	NQ	2013-951	CALA-13-33423	GELC
LLAO-4	5.24	04/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.672	0.0405	0.0373	—	pCi/L	Y	—	NQ	12-1203	CALA-12-12549	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.49	—	—	1	µg/L	Y	—	NQ	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.54	—	—	1	µg/L	Y	—	NQ	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.76	—	—	1	µg/L	Y	—	NQ	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.01	—	—	1	µg/L	Y	—	NQ	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.92	—	—	1	µg/L	Y	—	NQ	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.98	—	—	1	µg/L	Y	—	NQ	12-1203	CALA-12-12554	GELC
LLAO-4	5.24	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.91	—	—	3.3	µg/L	Y	J	J	2016-1411	CALA-16-116849	GELC
LLAO-4	5.24	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2015-1319	CALA-15-97445	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-3574	CALA-14-79464	GELC
LLAO-4	5.24	06/17/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-3574	CALA-14-79448	GELC
LLAO-4	5.24	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-951	CALA-13-33431	GELC
LLAO-4	5.24	04/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-1203	CALA-12-12554	GELC
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.13	—	—	0.01	SU	Y	H	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.42	—	—	0.01	SU	Y	H	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	02/11/99	WG	F	INIT	REG	GENERAL CHEMISTRY	USGS-WRI-79-4	Acidity or Alkalinity of a solution	pH	Y	7.6	—	—	—	SU	Y	—	NQ	5208R	CAPU-99-0002	HUFFMAN
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.3	—	—	0.33	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.9	—	—	0.725	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	981	—	—	0.73	mg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	220	—	—	—	mg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	07/28/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	200	—	—	—	mg/L	Y	—	NQ	7233R	CAPU-00-0029	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00581	0.00643	0.0222	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00485	0.00766	0.0466	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00769	0.0077	0.027	—	pCi/L	Y	U	U	874S	CAPU-02-45070	GEL
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Americium-241	Am-241	N	-2	8.5	14	—	pCi/L	Y	U	U	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.03	0.01	0.037	—	pCi/L	Y	U	U	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.03	0.01	0.044	—	pCi/L	Y	U	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Americium-241	Am-241	N	-4	5.5	3.2	—	pCi/L	Y	U	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.52	—	—	1.7	µg/L	Y	J	J	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.9	—	—	1.7	µg/L	Y	J	J	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Arsenic	As	Y	7.65	—	—	2.2	µg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Arsenic	As	N	9.2	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Arsenic	As	N	8.7	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0163	PARA

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Arsenic	As	Y	10	—	—	—	µg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	47.8	—	—	1	µg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	48.1	—	—	1	µg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	52.1	—	—	0.22	µg/L	Y	*	J	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Barium	Ba	N	40	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Barium	Ba	N	40	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Barium	Ba	N	30	—	—	—	µg/L	Y	B	J	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	238	—	—	15	µg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	293	—	—	15	µg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/19/00	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	379	—	—	—	µg/L	Y	B	J	6863R	CAPU-00-0020	KA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0964	—	—	0.067	mg/L	Y	J	J	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.111	—	—	0.067	mg/L	Y	J	J	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.09	mg/L	Y	U	U	873S	CAPU-02-45069	GEL
PAO-5n	7.43	02/11/99	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	—	mg/L	Y	U	U	5203R	CAPU-99-0002	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	22.7	—	—	0.05	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	21	—	—	0.05	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	30.6	—	—	0.0055	mg/L	Y	*	J	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Calcium	Ca	Y	26	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Calcium	Ca	Y	26	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Calcium	Ca	Y	25	—	—	—	mg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.22	1.34	4.6	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.499	1.17	3.65	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.02	1.6	3.1	—	pCi/L	Y	—	U	874S	CAPU-02-45070	GEL
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Cesium-137	Cs-137	N	-0.5	1.35	2.3	—	pCi/L	Y	U	U	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Cesium-137	Cs-137	N	-0.7	1.1	0.99	—	pCi/L	Y	U	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	48	—	—	0.67	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.5	—	—	0.67	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	41.8	—	—	0.16	mg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	41	—	—	—	mg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.78	1.38	4.6	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0663	1.12	3.54	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.94	0.73	2	—	pCi/L	Y	U	U	874S	CAPU-02-45070	GEL
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Cobalt-60	Co-60	N	-0.9	1.45	2.4	—	pCi/L	Y	U	U	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Cobalt-60	Co-60	N	-0.4	1.05	1.1	—	pCi/L	Y	U	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	4.45	—	—	3	µg/L	Y	J	J	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	5.5	—	—	3	µg/L	Y	J	J	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	5	—	—	1.4	µg/L	Y	U	U	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Copper	Cu	N	0.61	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Copper	Cu	N	0.68	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Copper	Cu	N	0.98	—	—	—	µg/L	Y	B	J	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.425	—	—	0.033	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.379	—	—	0.033	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.41	—	—	0.05	mg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	06/19/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.56	—	—	—	mg/L	Y	—	NQ	6863R	CAPU-00-0020	KA
PAO-5n	7.43	02/11/99	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.41	—	—	—	mg/L	Y	—	NQ	5203R	CAPU-99-0002	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.55	0.908	2.96	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.208	0.478	1.76	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.93	0.3	0.95	—	pCi/L	Y	—	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	14.5	0.592	1.04	—	pCi/L	Y	—	NQ	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	15.3	0.568	1.07	—	pCi/L	Y	—	NQ	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	12.4	0.75	1.3	—	pCi/L	Y	—	NQ	5204R	CAPU-99-0001	PARA

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	76.2	—	—	0.453	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	72.2	—	—	0.453	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	92.8	—	—	30	µg/L	Y	J	J	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	213	—	—	30	µg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	1650	—	—	13	µg/L	Y	N	J-	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Iron	Fe	Y	570	—	—	—	µg/L	Y	—	NQ	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Iron	Fe	Y	580	—	—	—	µg/L	Y	—	NQ	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Iron	Fe	N	110	—	—	—	µg/L	Y	—	U	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.76	—	—	0.11	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.78	—	—	0.11	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.33	—	—	0.0052	mg/L	Y	N*	J	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Magnesium	Mg	Y	6.3	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Magnesium	Mg	Y	6.3	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Magnesium	Mg	Y	6.1	—	—	—	mg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	2.22	—	—	2	µg/L	Y	J	J	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6020	Manganese	Mn	Y	2970	—	—	1.6	µg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Manganese	Mn	Y	3700	—	—	—	µg/L	Y	—	NQ	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Manganese	Mn	Y	3800	—	—	—	µg/L	Y	—	NQ	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Manganese	Mn	Y	4000	—	—	—	µg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.09	—	—	0.165	µg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.49	—	—	0.165	µg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.18	—	—	0.2	µg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.41	2.48	8.93	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.984	2.15	7.11	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Neptunium-237	Np-237	N	-9	10	16	—	pCi/L	Y	U	U	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Neptunium-237	Np-237	N	-7	6	6.3	—	pCi/L	Y	U	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.15	—	—	0.5	µg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.45	—	—	0.5	µg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Nickel	Ni	Y	7.55	—	—	0.69	µg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Nickel	Ni	N	9.5	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Nickel	Ni	N	9.7	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Nickel	Ni	N	10	—	—	—	µg/L	Y	B	J	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3	—	—	0.085	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	7.15	—	—	0.085	mg/L	N	H	J-	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	7.3	—	—	0.17	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.1	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.73	—	—	0.01	mg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	06/19/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.55	—	—	—	mg/L	Y	—	NQ	6863R	CAPU-00-0020	KA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0101	0.00618	0.0458	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00813	0.00761	0.0275	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00549	0.0055	0.03	—	pCi/L	Y	U	U	874S	CAPU-02-45070	GEL
PAO-5n	7.43	10/04/00	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.01	0.067	—	pCi/L	Y	U	U	7788R	CAPU-00-0162	PARA
PAO-5n	7.43	08/31/00	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.008	0.01	0.047	—	pCi/L	Y	U	U	7363R	CAPU-00-0071	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.131	0.0199	0.0437	—	pCi/L	Y	—	NQ	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.173	0.0198	0.0345	—	pCi/L	Y	—	NQ	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	Y	0.09	0.01	0.036	—	pCi/L	Y	—	NQ	874S	CAPU-02-45070	GEL
PAO-5n	7.43	10/04/00	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.03	0.02	0.084	—	pCi/L	Y	U	U	7788R	CAPU-00-0162	PARA
PAO-5n	7.43	08/31/00	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.04	0.02	0.026	—	pCi/L	Y	LT	U	7363R	CAPU-00-0071	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	12.9	—	—	0.05	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	14.6	—	—	0.05	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	N	14.5	—	—	0.017	mg/L	Y	N*	R	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Potassium	K	Y	15	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Potassium	K	Y	15	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0163	PARA

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Potassium	K	Y	14	—	—	—	mg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22.5	15.2	50.1	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.2	21.4	37	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.8	16	34	—	pCi/L	Y	U	U	874S	CAPU-02-45070	GEL
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Potassium-40	K-40	N	-220	225	45	—	pCi/L	Y	U	U	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Potassium-40	K-40	N	-79	32.5	31	—	pCi/L	Y	U	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	49.9	—	—	0.053	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	54.5	—	—	0.053	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	33.5	—	—	0.0098	mg/L	Y	*	J	873S	CAPU-02-45069	GEL
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	58.9	—	—	0.1	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	64.7	—	—	0.1	mg/L	Y	—	J-	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	76.6	—	—	0.014	mg/L	Y	*	J	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Sodium	Na	Y	60	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Sodium	Na	Y	61	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Sodium	Na	Y	63	—	—	—	mg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.74	1.06	3.42	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.34	1.04	3.07	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.11	0.86	3.3	—	pCi/L	Y	U	U	874S	CAPU-02-45070	GEL
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Sodium-22	Na-22	N	-1	1.5	2.4	—	pCi/L	Y	U	U	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	Generic:Gamma Spec.	Sodium-22	Na-22	N	-0.3	1.2	1	—	pCi/L	Y	U	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	520	—	—	1	µS/cm	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	482	—	—	3.63	µS/cm	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	101	—	—	1	µg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	95.3	—	—	1	µg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.304	0.109	0.491	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.134	0.145	0.498	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	2.27	0.35	0.69	—	pCi/L	Y	—	NQ	874S	CAPU-02-45070	GEL
PAO-5n	7.43	10/04/00	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.6	0.21	0.65	—	pCi/L	Y	—	U	7788R	CAPU-00-0162	PARA
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	1.14	0.3	0.85	—	pCi/L	Y	—	NQ	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	84.3	—	—	1.33	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	58.3	—	—	1.33	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	29.3	—	—	0.19	mg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13	—	—	—	mg/L	Y	—	NQ	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.3	—	—	—	mg/L	Y	—	NQ	7360R	CAPU-00-0072	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	Y	0.33	—	—	0.3	µg/L	Y	J	J	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.3	µg/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	VOC	SW-846:8260B	Toluene	108-88-3	N	1	—	—	0.39	µg/L	Y	U	U	872S	CAPU-02-45070	GEL
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	VOC	SW-846:8260	Toluene	108-88-3	N	5	—	—	—	µg/L	Y	U	U	5202R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	327	—	—	3.4	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	349	—	—	3.4	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/19/00	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	340	—	—	—	mg/L	Y	—	NQ	6865R	CAPU-00-0020	RECRAP
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.261	—	—	0.033	mg/L	Y	—	J	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.666	—	—	0.033	mg/L	Y	—	J	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.66	—	—	0.33	mg/L	Y	—	NQ	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.47	—	—	0.33	mg/L	Y	—	NQ	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	6.27	—	—	0.02	mg/L	Y	—	NQ	873S	CAPU-02-45070	GEL
PAO-5n	7.43	10/04/00	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:415.1	Total Organic Carbon	TOC	Y	7	—	—	—	mg/L	Y	—	NQ	7784R	CAPU-00-0162	PARA
PAO-5n	7.43	08/31/00	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:415.1	Total Organic Carbon	TOC	Y	9.2	—	—	—	mg/L	Y	—	NQ	7359R	CAPU-00-0071	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.03	—	—	0.02	mg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.987	—	—	0.017	mg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	4.35	—	—	0.05	mg/L	Y	—	NQ	873S	CAPU-02-45069	GEL
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0475	0.0122	0.0526	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0568	0.0199	0.107	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.15	0.02	0.009	—	pCi/L	Y	—	NQ	874S	CAPU-02-45070	GEL
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.21	0.04	0.045	—	pCi/L	Y	—	NQ	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.34	0.04	0.07	—	pCi/L	Y	—	NQ	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00267	0.00596	0.0627	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.01	0.0142	0.0679	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.01	0.0095	0.031	—	pCi/L	Y	U	U	874S	CAPU-02-45070	GEL
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.03	0.01	0.045	—	pCi/L	Y	U	U	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.006	0.01	0.054	—	pCi/L	Y	U	U	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.00647	0.0094	0.0544	—	pCi/L	Y	U	U	2016-1356	CAPU-16-116864	GELC
PAO-5n	7.43	06/04/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0608	0.0177	0.0762	—	pCi/L	Y	U	U	2015-1362	CAPA-15-97485	GELC
PAO-5n	7.43	06/11/02	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.08	0.01	0.036	—	pCi/L	Y	—	NQ	874S	CAPU-02-45070	GEL
PAO-5n	7.43	06/19/00	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.14	0.03	0.037	—	pCi/L	Y	—	NQ	6867R	CAPU-00-0014	PARA
PAO-5n	7.43	02/11/99	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.21	0.03	0.045	—	pCi/L	Y	—	NQ	5204R	CAPU-99-0001	PARA
PAO-5n	7.43	06/08/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.3	—	—	1	µg/L	Y	—	NQ	2016-1356	CAPU-16-116872	GELC
PAO-5n	7.43	06/04/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.31	—	—	1	µg/L	Y	—	NQ	2015-1362	CAPA-15-97493	GELC
PAO-5n	7.43	06/11/02	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	2.81	—	—	0.61	µg/L	Y	B	J	873S	CAPU-02-45069	GEL
PAO-5n	7.43	10/04/00	WG	F	INIT	FD	INORGANIC	SW-846:6010	Vanadium	V	N	3.1	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0164	PARA
PAO-5n	7.43	10/04/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Vanadium	V	N	3.2	—	—	—	µg/L	Y	B	J	7785R	CAPU-00-0163	PARA
PAO-5n	7.43	08/31/00	WG	F	INIT	REG	INORGANIC	SW-846:6010	Vanadium	V	N	2.8	—	—	—	µg/L	Y	B	J	7360R	CAPU-00-0072	PARA
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.65	—	—	0.01	SU	Y	H	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.57	—	—	0.01	SU	Y	H	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	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	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.26	—	—	0.01	SU	Y	H	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.23	—	—	0.01	SU	Y	H	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	154	—	—	0.33	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	141	—	—	0.725	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	164	—	—	0.725	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	171	—	—	0.725	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	166	—	—	0.725	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0106	0.00563	0.0418	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00249	0.00659	0.0479	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00252	0.0104	0.0437	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.018	0.00848	0.0455	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00392	0.0048	0.0353	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.345	—	—	0.017	mg/L	Y	—	J	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.338	—	—	0.017	mg/L	Y	—	J	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0363	—	—	0.017	mg/L	Y	J	J	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0721	—	—	0.017	mg/L	Y	—	U	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0476	—	—	0.017	mg/L	Y	J	U	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.08	—	—	1.7	µg/L	Y	J	J	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.58	—	—	1.7	µg/L	Y	J	J	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.98	—	—	1.7	µg/L	Y	J	J	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.14	—	—	1.7	µg/L	Y	J	J	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.99	—	—	1.7	µg/L	Y	J	J	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	98.3	—	—	1	µg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	95.1	—	—	1	µg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	109	—	—	1	µg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	114	—	—	1	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	117	—	—	1	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	213	—	—	15	µg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	223	—	—	15	µg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	234	—	—	15	µg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	236	—	—	15	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	243	—	—	15	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.12	—	—	0.067	mg/L	Y	J	J	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.114	—	—	0.067	mg/L	Y	J	J	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.155	—	—	0.067	mg/L	Y	J	J	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.118	—	—	0.067	mg/L	Y	J	J	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0905	—	—	0.067	mg/L	Y	J	J	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	42.3	—	—	0.05	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	39.2	—	—	0.05	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	46.2	—	—	0.05	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	51.2	—	—	0.05	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	48.8	—	—	0.05	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.19	1.88	7.73	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.92	1.9	4.63	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.74	1.52	5.92	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.26	1.68	6.29	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.999	1.53	5.64	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	46.8	—	—	0.67	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	48	—	—	0.67	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	49.9	—	—	0.67	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	47.7	—	—	0.67	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	46.8	—	—	0.67	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.28	1.9	8.26	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.251	1.5	5.91	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.89	1.55	6.63	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.24	1.5	6	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.373	1.24	4.84	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	7.11	—	—	3	µg/L	Y	J	J	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.275	—	—	0.033	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.296	—	—	0.033	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.414	—	—	0.033	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.297	—	—	0.033	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.327	—	—	0.033	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.89	0.542	1.35	—	pCi/L	Y	—	NQ	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.959	0.496	1.53	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.54	0.767	2.77	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.04	0.962	2.52	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.53	0.882	2.66	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	11.1	0.604	1.44	—	pCi/L	Y	—	NQ	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.07	0.543	1.35	—	pCi/L	Y	—	NQ	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10.5	0.685	1.87	—	pCi/L	Y	—	NQ	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	13.9	0.71	1.79	—	pCi/L	Y	—	NQ	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.13	1.1	2.31	—	pCi/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	148	—	—	0.453	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	141	—	—	0.453	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	164	—	—	0.453	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	181	—	—	0.453	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	173	—	—	0.453	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	10.4	—	—	0.11	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	10.5	—	—	0.11	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	11.9	—	—	0.11	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	12.8	—	—	0.11	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	12.5	—	—	0.11	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.7	—	—	0.165	µg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.37	—	—	0.165	µg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.49	—	—	0.165	µg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.95	—	—	0.165	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.73	—	—	0.165	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.6	2.83	12.6	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.152	2.45	8.87	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.906	2.74	9.44	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.05	2.95	10.2	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.285	2.99	10.2	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.05	—	—	0.5	µg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.46	—	—	0.5	µg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.66	—	—	0.5	µg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	11.4	—	—	0.5	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.43	—	—	0.5	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.85	—	—	0.17	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.16	—	—	0.085	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.01	—	—	0.17	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.1	—	—	0.085	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.69	—	—	0.17	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.29	—	—	0.05	µg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.327	—	—	0.05	µg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.264	—	—	0.05	µg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.306	—	—	0.05	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.307	—	—	0.05	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.01	0.0071	0.0506	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00215	0.00373	0.0291	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0054	0.0132	0.0641	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-1.51E-09	0.00717	0.0212	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00512	0.0381	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0176	0.0103	0.0445	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0129	0.00912	0.0365	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0172	0.013	0.106	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00906	0.00848	0.0446	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00209	0.00467	0.0295	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8.64	—	—	0.05	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8.35	—	—	0.05	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	8.64	—	—	0.05	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.82	—	—	0.05	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	9.23	—	—	0.05	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-24.4	22	77.2	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.1	17.2	75.3	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.4	21.6	63.3	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-1.15	19.7	72.7	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.6	18.8	76.1	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	54.5	—	—	0.053	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	55.4	—	—	0.053	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	55	—	—	0.053	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.1	—	—	0.053	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.7	—	—	0.053	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	43.3	—	—	0.1	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	47.4	—	—	0.1	mg/L	Y	—	J+	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	43.3	—	—	0.1	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	45.9	—	—	0.1	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	45.3	—	—	0.1	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.348	1.63	5.85	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.212	1.38	5.5	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.213	1.68	6.5	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.77	1.9	5.94	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.33	1.47	5.8	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	524	—	—	3.63	µS/cm	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	515	—	—	3.63	µS/cm	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	566	—	—	1	µS/cm	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	621	—	—	1	µS/cm	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	561	—	—	1	µS/cm	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	216	—	—	1	µg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	219	—	—	1	µg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	239	—	—	1	µg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	257	—	—	1	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	261	—	—	1	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.155	0.132	0.495	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.122	0.124	0.484	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0817	0.121	0.438	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.35	0.148	0.478	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.409	0.155	0.483	—	pCi/L	Y	U	U	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	29.7	—	—	1.33	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	29.7	—	—	1.33	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	31.2	—	—	1.33	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	30.9	—	—	1.33	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	32.8	—	—	0.133	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	3.67	—	—	2.5	µg/L	Y	J	J	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	200	—	—	50	µg/L	Y	U	U	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	371	—	—	3.4	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	339	—	—	3.4	mg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	366	—	—	3.4	mg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	373	—	—	3.4	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	331	—	—	3.4	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.118	—	—	0.033	mg/L	Y	—	NQ	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.166	—	—	0.033	mg/L	Y	—	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.204	—	—	0.033	mg/L	Y	—	U	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.194	—	—	0.033	mg/L	Y	—	J-	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.195	—	—	0.035	mg/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.39	—	—	0.33	mg/L	Y	—	NQ	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.5	—	—	0.33	mg/L	Y	—	J-	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.41	—	—	0.33	mg/L	Y	—	NQ	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.64	—	—	0.33	mg/L	Y	—	NQ	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.9	—	—	0.33	mg/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.28	—	—	0.02	mg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.47	—	—	0.017	mg/L	Y	—	J	2015-1328	CAPA-15-97494	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
POI-4	159	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.08	—	—	0.017	mg/L	Y	—	J	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.973	—	—	0.017	mg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.69	—	—	0.017	mg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.84	—	—	0.067	µg/L	Y	—	NQ	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.17	—	—	0.067	µg/L	Y	—	NQ	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.89	—	—	0.067	µg/L	Y	—	NQ	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.83	—	—	0.067	µg/L	Y	—	NQ	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.67	—	—	0.067	µg/L	Y	—	NQ	12-1219	CAPU-12-12570	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.745	0.0606	0.168	—	pCi/L	Y	—	NQ	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.687	0.0662	0.154	—	pCi/L	Y	—	J-	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.38	0.0604	0.0671	—	pCi/L	Y	—	NQ	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.44	0.0792	0.0934	—	pCi/L	Y	—	NQ	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.14	0.0557	0.0647	—	pCi/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0358	0.0177	0.116	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00987	0.0185	0.098	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0769	0.0181	0.0562	—	pCi/L	Y	—	NQ	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.042	0.0196	0.0726	—	pCi/L	Y	U	U	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0427	0.0119	0.0374	—	pCi/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.612	0.0549	0.11	—	pCi/L	Y	—	NQ	2016-1293	CAPU-16-116865	GELC
POI-4	159	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.367	0.0501	0.11	—	pCi/L	Y	—	J-	2015-1328	CAPA-15-97486	GELC
POI-4	159	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	1.02	0.0519	0.0377	—	pCi/L	Y	—	NQ	2014-3481	CAPU-14-79426	GELC
POI-4	159	06/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	1.02	0.0664	0.0596	—	pCi/L	Y	—	NQ	2013-914	CAPU-13-34774	GELC
POI-4	159	04/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.782	0.0459	0.0416	—	pCi/L	Y	—	NQ	12-1219	CAPU-12-12562	GELC
POI-4	159	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.66	—	—	1	µg/L	Y	J	J	2016-1293	CAPU-16-116873	GELC
POI-4	159	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.59	—	—	1	µg/L	Y	J	J	2015-1328	CAPA-15-97494	GELC
POI-4	159	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.45	—	—	1	µg/L	Y	J	J	2014-3481	CAPU-14-79434	GELC
POI-4	159	06/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.15	—	—	1	µg/L	Y	J	J	2013-914	CAPU-13-34782	GELC
POI-4	159	04/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.02	—	—	1	µg/L	Y	J	J	12-1219	CAPU-12-12570	GELC
R-2	906.4	05/31/16	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	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	—	—	0.01	SU	Y	H	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	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	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.63	—	—	0.01	SU	Y	H	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.5	—	—	0.01	SU	Y	H	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.9	—	—	0.33	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.7	—	—	0.725	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.7	—	—	0.725	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.9	—	—	0.725	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.1	—	—	0.725	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00216	0.00892	0.0425	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0142	0.00748	0.0455	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00198	0.00951	0.0343	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00286	0.00496	0.0435	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.01	0.00961	0.0361	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.261	—	—	0.017	mg/L	Y	—	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.476	—	—	0.017	mg/L	Y	—	J	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.176	—	—	0.017	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0648	—	—	0.017	mg/L	Y	—	U	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.73	—	—	1.7	µg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1231	CAPU-12-12571	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	13.7	—	—	1	µg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	14.3	—	—	1	µg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	14.9	—	—	1	µg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.8	—	—	1	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15.8	—	—	1	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	18.4	—	—	15	µg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19	—	—	15	µg/L	Y	J	J	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	N	50	—	—	15	µg/L	Y	U	U	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	17.3	—	—	15	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.071	—	—	0.067	mg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.5	—	—	0.05	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.4	—	—	0.05	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.6	—	—	0.05	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.8	—	—	0.05	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12	—	—	0.05	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.713	1.35	4.95	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.742	1.81	5.75	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.67	1.34	5.19	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.13	0.923	3.26	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.3	1.75	4.32	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.15	—	—	0.067	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.19	—	—	0.067	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.21	—	—	0.067	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.17	—	—	0.067	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.1	—	—	0.067	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.68	—	—	2	µg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.04	—	—	2	µg/L	Y	J	J	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.61	—	—	2	µg/L	Y	J	J	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.8	—	—	2	µg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.72	—	—	2	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.42	1.55	5.59	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.29	1.99	6.59	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.14	0.93	4.07	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.487	0.999	3.53	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.49	0.819	3.1	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	6.21	—	—	3	µg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	7.27	—	—	3	µg/L	Y	J	J	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	5.19	—	—	3	µg/L	Y	J	J	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	5.09	—	—	3	µg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	6.57	—	—	3	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.165	—	—	0.033	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.191	—	—	0.033	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.185	—	—	0.033	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.227	—	—	0.033	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.253	—	—	0.033	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.384	0.501	1.71	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.864	0.582	2.97	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.311	0.397	1.36	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0322	0.464	2.31	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.88	0.927	2.75	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.01	0.859	2.77	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.663	0.434	1.43	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.6	0.488	1.56	—	pCi/L	Y	—	NQ	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.373	0.753	2.72	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.17	0.78	2.3	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.3	—	—	0.453	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.9	—	—	0.453	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.5	—	—	0.453	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43	—	—	0.453	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44	—	—	0.453	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.04	—	—	0.11	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.04	—	—	0.11	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.03	—	—	0.11	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.3	—	—	0.11	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.39	—	—	0.11	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	9.84	—	—	2	µg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	6.83	—	—	2	µg/L	Y	J	J	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	13.6	—	—	2	µg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	9.82	—	—	2	µg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	6.29	—	—	2	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.23	—	—	0.165	µg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.92	—	—	0.165	µg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.9	—	—	0.165	µg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.89	—	—	0.165	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.76	—	—	0.165	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.38	2.75	9.41	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.07	3.42	11.4	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.842	2.2	7.71	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.0615	1.93	6.58	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.335	1.65	5.47	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.32	—	—	0.5	µg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.974	—	—	0.5	µg/L	Y	J	J	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.05	—	—	0.5	µg/L	Y	J	J	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.17	—	—	0.5	µg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.01	—	—	0.5	µg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.491	—	—	0.017	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.452	—	—	0.017	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.478	—	—	0.017	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.45	—	—	0.017	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.447	—	—	0.085	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.329	—	—	0.05	µg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.342	—	—	0.05	µg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.346	—	—	0.05	µg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.338	—	—	0.05	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.358	—	—	0.05	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00687	0.00999	0.0462	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00273	0.0106	0.0369	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00217	0.00575	0.024	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00385	0.0255	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0165	0.0085	0.043	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00229	0.00826	0.0406	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00273	0.0112	0.0463	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00614	0.0396	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00272	0.00609	0.0536	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.36E-09	0.00817	0.0333	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.2	—	—	0.05	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.11	—	—	0.05	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.12	—	—	0.05	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.999	—	—	0.05	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.22	—	—	0.05	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-28.6	13.6	52.7	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-17.9	21.2	81	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.6	19	43.6	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.26	12.6	46.3	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.6	12	35.2	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	82.6	—	—	0.053	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	83	—	—	0.053	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	83.7	—	—	0.053	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	85.7	—	—	0.053	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	92.5	—	—	0.053	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.8	—	—	0.1	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.11	1.16	4.43	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.29	1.51	4.83	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.252	1.44	4.59	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.915	0.883	3.05	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.335	0.817	2.92	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	131	—	—	3.63	µS/cm	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	133	—	—	3.63	µS/cm	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	138	—	—	1	µS/cm	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	µS/cm	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	µS/cm	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	54.6	—	—	1	µg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.4	—	—	1	µg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	58.2	—	—	1	µg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.1	—	—	1	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58	—	—	1	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0486	0.131	0.486	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.317	0.126	0.395	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0242	0.129	0.483	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.142	0.145	0.493	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.392	0.153	0.49	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.6	—	—	0.133	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.53	—	—	0.133	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.46	—	—	0.133	mg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.51	—	—	0.133	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.49	—	—	0.133	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	2.88	—	—	2.5	µg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2013-952	CAPU-13-34783	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	157	—	—	3.4	mg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	J	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	3.4	mg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0421	—	—	0.033	mg/L	Y	J	J	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.145	—	—	0.033	mg/L	Y	—	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.38	—	—	0.33	mg/L	Y	—	NQ	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.698	—	—	0.33	mg/L	Y	J	J	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.621	—	—	0.33	mg/L	Y	J	J	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.863	—	—	0.33	mg/L	Y	J	J	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0408	—	—	0.02	mg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.067	—	—	0.017	mg/L	Y	—	U	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0433	—	—	0.017	mg/L	Y	J	J	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0395	—	—	0.017	mg/L	Y	J	J	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0419	—	—	0.017	mg/L	Y	J	J	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.327	—	—	0.067	µg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.293	—	—	0.067	µg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.312	—	—	0.067	µg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.429	—	—	0.067	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.334	—	—	0.067	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.235	0.0342	0.161	—	pCi/L	Y	—	NQ	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.3	0.0323	0.0728	—	pCi/L	Y	—	NQ	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.294	0.0285	0.065	—	pCi/L	Y	—	NQ	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.331	0.0298	0.0582	—	pCi/L	Y	—	NQ	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.281	0.0299	0.0612	—	pCi/L	Y	—	NQ	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0143	0.0122	0.111	—	pCi/L	Y	U	U	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0273	0.0127	0.0461	—	pCi/L	Y	U	U	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00621	0.00621	0.0545	—	pCi/L	Y	U	U	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00982	0.00866	0.0453	—	pCi/L	Y	U	U	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00621	0.00761	0.0353	—	pCi/L	Y	U	U	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.0257	0.105	—	pCi/L	Y	—	NQ	2016-1293	CAPU-16-116866	GELC
R-2	906.4	06/11/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.201	0.0254	0.0518	—	pCi/L	Y	—	NQ	2015-1400	CAPA-15-97487	GELC
R-2	906.4	06/05/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.126	0.0185	0.0365	—	pCi/L	Y	—	NQ	2014-3510	CAPU-14-79427	GELC
R-2	906.4	06/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.0178	0.0372	—	pCi/L	Y	—	NQ	2013-952	CAPU-13-34775	GELC
R-2	906.4	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.113	0.0169	0.0393	—	pCi/L	Y	—	NQ	12-1231	CAPU-12-12563	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	9.1	—	—	1	µg/L	Y	—	NQ	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.49	—	—	1	µg/L	Y	—	NQ	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.28	—	—	1	µg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.31	—	—	1	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.32	—	—	1	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-2	906.4	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	7.28	—	—	3.3	µg/L	Y	J	J	2016-1293	CAPU-16-116874	GELC
R-2	906.4	06/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.85	—	—	3.3	µg/L	Y	J	J	2015-1400	CAPA-15-97495	GELC
R-2	906.4	06/05/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	13.2	—	—	3.3	µg/L	Y	—	NQ	2014-3510	CAPU-14-79435	GELC
R-2	906.4	06/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	11.7	—	—	3.3	µg/L	Y	—	NQ	2013-952	CAPU-13-34783	GELC
R-2	906.4	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.7	—	—	3.3	µg/L	Y	—	NQ	12-1231	CAPU-12-12571	GELC
R-24	825	06/06/16	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	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	NQ	2015-1335	CAPA-15-97476	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-24	825	06/02/15	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	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.29	—	—	0.01	SU	Y	H	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.04	—	—	0.01	SU	Y	H	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	108	—	—	0.33	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	109	—	—	0.725	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	107	—	—	0.725	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	105	—	—	0.725	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	105	—	—	0.725	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	103	—	—	0.725	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0152	0.00719	0.0249	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-9.66E-10	0.0071	0.0558	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00772	0.0123	0.0495	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00654	0.0461	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00191	0.00506	0.0291	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00194	0.00433	0.0349	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.83	—	—	1.7	µg/L	Y	J	J	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	1.85	—	—	1.7	µg/L	Y	J	J	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.78	—	—	1.7	µg/L	Y	J	J	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.4	—	—	1.7	µg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.71	—	—	1.7	µg/L	Y	J	J	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	50.7	—	—	1	µg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	52	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	51.5	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	53.5	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	53.1	—	—	1	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	58.1	—	—	1	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	47.2	—	—	15	µg/L	Y	J	J	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	48.7	—	—	15	µg/L	Y	J	J	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	47.9	—	—	15	µg/L	Y	J	J	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	50.6	—	—	15	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	45.9	—	—	15	µg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	50.4	—	—	15	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0801	—	—	0.067	mg/L	Y	J	J	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0706	—	—	0.067	mg/L	Y	J	J	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0682	—	—	0.067	mg/L	Y	J	J	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0692	—	—	0.067	mg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.4	—	—	0.05	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.7	—	—	0.05	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.6	—	—	0.05	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	21.8	—	—	0.05	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.8	—	—	0.05	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.4	—	—	0.05	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.56	1.63	5.26	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.859	1.3	4.42	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.43	1.26	5.04	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.13	1.7	4.69	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.747	1.98	7.18	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.153	1.47	5.16	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.81	—	—	0.067	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.87	—	—	0.067	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.87	—	—	0.067	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.31	—	—	0.067	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.96	—	—	0.067	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.53	—	—	0.067	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.62	—	—	2	µg/L	Y	J	J	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.83	—	—	2	µg/L	Y	J	J	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.04	—	—	2	µg/L	Y	J	J	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.68	—	—	2	µg/L	Y	J	J	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.45	—	—	2	µg/L	Y	J	J	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.8	—	—	2	µg/L	Y	J	J	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-4.22	1.59	4.27	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-4.38	1.57	3.42	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.255	1.83	7.21	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0249	1.71	6.3	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.89	1.47	7.33	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.36	1.47	6.28	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.222	—	—	0.033	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.243	—	—	0.033	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.246	—	—	0.033	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.403	—	—	0.033	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.283	—	—	0.033	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.302	—	—	0.033	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.536	0.818	2.91	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.0606	0.381	1.35	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.556	0.48	1.61	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.935	0.558	1.84	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.14	0.797	2.69	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.18	0.711	2.24	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.34	0.548	1.49	—	pCi/L	Y	—	NQ	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.14	0.324	0.845	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.83	0.389	1.13	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.74	0.502	1.56	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.04	0.512	1.53	—	pCi/L	Y	—	NQ	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.6	0.872	2.82	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	65.4	—	—	0.453	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.7	—	—	0.453	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.5	—	—	0.453	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	69.8	—	—	0.453	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.453	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	68.8	—	—	0.453	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.52	—	—	0.11	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.65	—	—	0.11	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.67	—	—	0.11	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.74	—	—	0.11	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.59	—	—	0.11	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.75	—	—	0.11	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.87	—	—	0.165	µg/L	Y	—	J	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.91	—	—	0.165	µg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.96	—	—	0.165	µg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.81	—	—	0.165	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2	—	—	0.165	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.22	—	—	0.165	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-24	825	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.78	2.72	9.44	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.76	2.74	9.76	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.58	3.07	10.7	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.21	2.79	9.06	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.69	3.39	11.1	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.05	2.28	8.56	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.73	—	—	0.5	µg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.85	—	—	0.5	µg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.69	—	—	0.5	µg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.17	—	—	0.5	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.71	—	—	0.5	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	10.1	—	—	0.5	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.368	—	—	0.017	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.287	—	—	0.017	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.289	—	—	0.017	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.341	—	—	0.017	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.372	—	—	0.017	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.354	—	—	0.085	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.418	—	—	0.05	µg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.301	—	—	0.05	µg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.33	—	—	0.05	µg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.358	—	—	0.05	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.426	—	—	0.05	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.384	—	—	0.05	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00684	0.0051	0.0413	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0104	0.00552	0.0282	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0111	0.00739	0.0301	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00592	0.00725	0.0327	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00476	0.00476	0.0223	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00638	0.00475	0.0388	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00911	0.00852	0.0394	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	1.04E-09	0.0059	0.0354	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0156	0.0107	0.0378	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0385	0.0122	0.0539	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00952	0.00753	0.0469	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00425	0.00425	0.03	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.11	—	—	0.05	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	3.23	—	—	0.05	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.18	—	—	0.05	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.25	—	—	0.05	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.19	—	—	0.05	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.45	—	—	0.05	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.821	18.1	69.4	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-2.06	17.3	67.3	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	69.2	16.3	43.5	—	pCi/L	Y	UI	R	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.2	19.3	48.1	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	22.6	25.9	107	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.3	18.6	73.1	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	56.2	—	—	0.053	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	53.2	—	—	0.053	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	52.8	—	—	0.053	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	56.4	—	—	0.053	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56	—	—	0.053	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	58.9	—	—	0.053	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	25	—	—	0.1	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	24.8	—	—	0.1	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	24.9	—	—	0.1	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	24.2	—	—	0.1	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.6	—	—	0.1	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24.2	—	—	0.1	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.338	1.5	5.6	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.867	0.984	3.67	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.26	1.54	5.23	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.53	1.19	5.23	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.571	1.55	6.83	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.83	1.33	5.95	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	1	µS/cm	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	238	—	—	3.63	µS/cm	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	242	—	—	3.63	µS/cm	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	248	—	—	1	µS/cm	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	243	—	—	1	µS/cm	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	1	µS/cm	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	115	—	—	1	µg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	125	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	124	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	120	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	115	—	—	1	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	125	—	—	1	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.133	0.126	0.483	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.159	0.128	0.483	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0584	0.107	0.403	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.112	0.119	0.475	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.113	0.106	0.444	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.126	0.124	0.496	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.17	—	—	0.133	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.48	—	—	0.133	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.51	—	—	0.133	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.12	—	—	0.133	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.26	—	—	0.133	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.75	—	—	0.133	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	12.8	—	—	2.5	µg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	161	—	—	3.4	mg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	160	—	—	3.4	mg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	169	—	—	3.4	mg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	160	—	—	3.4	mg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	173	—	—	3.4	mg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.498	—	—	0.33	mg/L	Y	J	J	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.446	—	—	0.33	mg/L	Y	J	J-	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.429	—	—	0.33	mg/L	Y	J	J-	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.448	—	—	0.33	mg/L	Y	J	J	2014-3494	CAPU-14-79428	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-24	825	06/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.671	—	—	0.33	mg/L	Y	J	J	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.591	—	—	0.33	mg/L	Y	J	J	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.645	0.625	2.058	—	pCi/L	Y	U	U	2016-1364	CAPU-16-116867	ARSL
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.907	0.72	2.342	—	pCi/L	Y	U	U	2015-1348	CAPA-15-97488	ARSL
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.715	0.693	2.28	—	pCi/L	Y	U	U	2015-1348	CAPA-15-97475	ARSL
R-24	825	03/11/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.483	0.7084	2.4472	—	pCi/L	Y	U	U	11-1655	CAPU-11-5296	ARSL
R-24	825	03/11/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.3828	0.7406	2.4472	—	pCi/L	N	U	R	11-1655	CAPU-11-5296	ARSL
R-24	825	07/16/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.0644	0.2898	0.2898	—	pCi/L	Y	U	U	09-2698	CAPU-09-11269	UMTL
R-24	825	01/15/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0	0.2898	0.2898	—	pCi/L	Y	U	U	09-676	CAPU-09-1804	UMTL
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.45	—	—	0.067	µg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	2.02	—	—	0.067	µg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.89	—	—	0.067	µg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.5	—	—	0.067	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.25	—	—	0.067	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.53	—	—	0.067	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.799	0.0417	0.0513	—	pCi/L	Y	—	NQ	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.839	0.0604	0.104	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.98	0.0585	0.0851	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.91	0.0534	0.0785	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.828	0.051	0.0641	—	pCi/L	Y	—	J	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.72	0.053	0.0948	—	pCi/L	Y	—	NQ	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0234	0.00937	0.0611	—	pCi/L	Y	U	U	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0208	0.0122	0.0664	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0438	0.0154	0.0543	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.03	0.0119	0.0658	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0288	0.0135	0.0498	—	pCi/L	Y	U	U	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0434	0.0145	0.0548	—	pCi/L	Y	U	U	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.421	0.0299	0.0531	—	pCi/L	Y	—	NQ	2016-1325	CAPU-16-116867	GELC
R-24	825	06/02/15	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.539	0.0486	0.0743	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97475	GELC
R-24	825	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.583	0.0452	0.0607	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97488	GELC
R-24	825	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.507	0.0399	0.0441	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79428	GELC
R-24	825	06/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.434	0.0377	0.0409	—	pCi/L	Y	—	J	2013-917	CAPU-13-34776	GELC
R-24	825	04/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.491	0.0441	0.061	—	pCi/L	Y	—	NQ	12-1216	CAPU-12-12564	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	17.2	—	—	1	µg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	14.1	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	14	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	17.1	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	18.7	—	—	1	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	17.7	—	—	1	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-24	825	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	19	—	—	3.3	µg/L	Y	—	NQ	2016-1325	CAPU-16-116875	GELC
R-24	825	06/02/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	12.2	—	—	3.3	µg/L	Y	—	NQ	2015-1335	CAPA-15-97476	GELC
R-24	825	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	12.3	—	—	3.3	µg/L	Y	—	NQ	2015-1335	CAPA-15-97496	GELC
R-24	825	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	11.2	—	—	3.3	µg/L	Y	—	NQ	2014-3494	CAPU-14-79436	GELC
R-24	825	06/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	11.9	—	—	3.3	µg/L	Y	—	NQ	2013-917	CAPU-13-34784	GELC
R-24	825	04/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.1	—	—	3.3	µg/L	Y	—	NQ	12-1216	CAPU-12-12572	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.32	—	—	0.01	SU	Y	H	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.32	—	—	0.01	SU	Y	H	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.32	—	—	0.01	SU	Y	H	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.27	—	—	0.01	SU	Y	H	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.34	—	—	0.01	SU	Y	H	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	86.2	—	—	0.33	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.2	—	—	0.725	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	80.7	—	—	0.725	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.2	—	—	0.725	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85	—	—	0.725	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00189	0.00566	0.0216	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.015	0.0088	0.0361	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0361	0.0115	0.0446	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0117	0.00826	0.0443	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00544	0.00544	0.049	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.1	—	—	1.7	µg/L	Y	J	J	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.13	—	—	1.7	µg/L	Y	J	J	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.06	—	—	1.7	µg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	48	—	—	1	µg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	46.2	—	—	1	µg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	42	—	—	1	µg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	46.2	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	46	—	—	1	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19.9	—	—	15	µg/L	Y	J	J	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	23.9	—	—	15	µg/L	Y	J	J	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	18.9	—	—	15	µg/L	Y	J	J	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.7	—	—	15	µg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	22.7	—	—	15	µg/L	Y	J	J	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0755	—	—	0.067	mg/L	Y	J	J	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0689	—	—	0.067	mg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.5	—	—	0.05	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17.8	—	—	0.05	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.2	—	—	0.05	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.2	—	—	0.05	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.423	1.13	4.01	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.239	1.3	4.75	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.615	1.54	5.59	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.42	0.83	3.12	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.66	1.18	3.79	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.03	—	—	0.067	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.04	—	—	0.067	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.13	—	—	0.067	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.02	—	—	0.067	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.73	—	—	0.067	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.02	—	—	2	µg/L	Y	J	J	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.38	—	—	2	µg/L	Y	J	J	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.78	—	—	2	µg/L	Y	J	J	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.46	—	—	2	µg/L	Y	J	J	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.46	—	—	2	µg/L	Y	J	J	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.33	1.26	4.99	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.517	1.28	5.03	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.81	1.8	7.01	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.406	1.07	3.88	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.39	1.03	3.36	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.188	—	—	0.033	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.218	—	—	0.033	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.439	—	—	0.033	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.247	—	—	0.033	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.283	—	—	0.033	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.518	0.712	3	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.17	0.838	2.84	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.905	0.442	1.43	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.6	0.931	2.99	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.81	0.871	2.51	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.34	0.447	1.38	—	pCi/L	Y	—	NQ	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.08	0.664	1.84	—	pCi/L	Y	—	J	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.9	0.478	1.47	—	pCi/L	Y	—	NQ	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.35	0.489	1.5	—	pCi/L	Y	—	NQ	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.29	1.06	2.44	—	pCi/L	Y	—	NQ	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	63.1	—	—	0.453	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	65.4	—	—	0.453	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.1	—	—	0.453	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.453	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.8	—	—	0.453	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.6	—	—	0.11	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.68	—	—	0.11	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.26	—	—	0.11	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.56	—	—	0.11	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.58	—	—	0.11	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17	—	—	0.165	µg/L	Y	—	J	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.165	µg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.165	µg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.17	—	—	0.165	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.165	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.11	2.67	7.77	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.61	3.02	9.48	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.546	2.87	10.2	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.45	2.4	6.83	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.51	2.16	7.33	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.576	—	—	0.017	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.59	—	—	0.085	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.56	—	—	0.085	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.54	—	—	0.017	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.52	—	—	0.085	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.552	—	—	0.05	µg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.517	—	—	0.05	µg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.529	—	—	0.05	µg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.52	—	—	0.05	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.548	—	—	0.05	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0111	0.00699	0.0478	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00459	0.0108	0.031	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00578	0.0261	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00222	0.00384	0.0208	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00686	0.0511	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00648	0.0112	0.0456	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00229	0.0115	0.0389	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00944	0.00746	0.043	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00222	0.00665	0.0437	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00396	0.0395	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.2	—	—	0.05	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.21	—	—	0.05	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.34	—	—	0.05	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.56	—	—	0.05	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.641	16.4	64.3	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27	13.9	35.7	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.4	19.9	73.8	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.5	19.2	40.7	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-9.44	14.2	55.9	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	65.1	—	—	0.053	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	65.6	—	—	0.053	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	61.1	—	—	0.053	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.3	—	—	0.053	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67	—	—	0.053	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12	—	—	0.1	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.109	1.19	4.43	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.965	1.28	5.14	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.173	1.75	5.67	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0334	1.07	3.93	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.891	1.15	3.93	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	180	—	—	1	µS/cm	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	170	—	—	3.63	µS/cm	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	184	—	—	1	µS/cm	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	185	—	—	1	µS/cm	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	186	—	—	1	µS/cm	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	113	—	—	1	µg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	101	—	—	1	µg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	101	—	—	1	µg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	107	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	111	—	—	1	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.17	0.122	0.484	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0158	0.113	0.416	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.108	0.094	0.406	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.406	0.142	0.459	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.105	0.108	0.406	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.01	—	—	0.133	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.96	—	—	0.133	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.01	—	—	0.133	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.99	—	—	0.133	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.74	—	—	0.133	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	9.48	—	—	2.5	µg/L	Y	J	J	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	3.4	mg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-3	974.5	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	127	—	—	3.4	mg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	3.4	mg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	3.4	mg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.352	—	—	0.33	mg/L	Y	J	J	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.335	—	—	0.33	mg/L	Y	J	J	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.692	—	—	0.33	mg/L	Y	J	J	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.646	—	—	0.33	mg/L	Y	J	J	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.852	—	—	0.067	µg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.928	—	—	0.067	µg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.909	—	—	0.067	µg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1	—	—	0.067	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.969	—	—	0.067	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.598	0.0393	0.0579	—	pCi/L	Y	—	NQ	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.527	0.042	0.0766	—	pCi/L	Y	—	NQ	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.524	0.0359	0.0625	—	pCi/L	Y	—	NQ	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.57	0.0419	0.0655	—	pCi/L	Y	—	J	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.503	0.0419	0.0728	—	pCi/L	Y	—	J	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0528	0.0144	0.0689	—	pCi/L	Y	U	U	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0143	0.0175	0.0485	—	pCi/L	Y	U	U	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0269	0.0123	0.0524	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0221	0.0104	0.051	—	pCi/L	Y	U	U	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0074	0.0117	0.0421	—	pCi/L	Y	U	U	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.335	0.0286	0.0599	—	pCi/L	Y	—	NQ	2016-1324	CAPU-16-116868	GELC
R-3	974.5	06/10/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.249	0.029	0.0545	—	pCi/L	Y	—	NQ	2015-1394	CAPA-15-97489	GELC
R-3	974.5	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.295	0.0271	0.0351	—	pCi/L	Y	—	NQ	2014-3500	CAPU-14-79429	GELC
R-3	974.5	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.301	0.0303	0.0418	—	pCi/L	Y	—	J	2013-940	CAPU-13-34777	GELC
R-3	974.5	04/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.344	0.0337	0.0468	—	pCi/L	Y	—	J	12-1229	CAPU-12-12565	GELC
R-3	974.5	06/06/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	13.3	—	—	1	µg/L	Y	—	NQ	2016-1324	CAPU-16-116876	GELC
R-3	974.5	06/10/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.7	—	—	1	µg/L	Y	—	NQ	2015-1394	CAPA-15-97497	GELC
R-3	974.5	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12.1	—	—	1	µg/L	Y	—	NQ	2014-3500	CAPU-14-79437	GELC
R-3	974.5	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.9	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34785	GELC
R-3	974.5	04/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	13	—	—	1	µg/L	Y	—	NQ	12-1229	CAPU-12-12573	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.02	—	—	0.01	SU	Y	H	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	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	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	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	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	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	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	152	—	—	0.725	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	155	—	—	0.725	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	155	—	—	0.725	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	158	—	—	0.725	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	156	—	—	0.725	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0141	0.00665	0.0269	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0437	0.0312	0.12	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00856	0.0121	0.074	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00571	0.00902	0.0433	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00407	0.00288	0.0367	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.37	—	—	1.7	µg/L	Y	J	J	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1225	CAPU-12-12574	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	107	—	—	1	µg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	96.4	—	—	1	µg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	98.3	—	—	1	µg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	100	—	—	1	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	105	—	—	1	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	122	—	—	15	µg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	122	—	—	15	µg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	101	—	—	15	µg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	101	—	—	15	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	101	—	—	15	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.149	—	—	0.067	mg/L	Y	J	J	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.149	—	—	0.067	mg/L	Y	J	J	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.157	—	—	0.067	mg/L	Y	J	J	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.148	—	—	0.067	mg/L	Y	J	J	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.16	—	—	0.067	mg/L	Y	J	J	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	59	—	—	0.05	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	56.9	—	—	0.05	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	57.7	—	—	0.05	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	60	—	—	0.05	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	59.5	—	—	0.05	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.06	2.15	7.05	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.43	1.72	7.42	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.95	1.4	4.36	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.31	1.27	4.58	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.92	1.31	4.01	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	43.9	—	—	0.67	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.8	—	—	0.67	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.9	—	—	0.67	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.1	—	—	0.67	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	42.3	—	—	0.67	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.85	—	—	2	µg/L	Y	J	J	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.263	1.96	7.26	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.86	1.7	6.05	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.424	0.967	3.56	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.85	0.823	4.14	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.553	0.947	3.67	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.25	—	—	0.033	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.278	—	—	0.033	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.408	—	—	0.033	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.351	—	—	0.033	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.334	—	—	0.033	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	10.3	1.54	2.35	—	pCi/L	Y	—	NQ	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	7.49	0.76	1.79	—	pCi/L	Y	—	NQ	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	8.57	0.824	1.74	—	pCi/L	Y	—	NQ	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.62	1.46	2.71	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	5.3	1.44	2.9	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.62	0.677	1.89	—	pCi/L	Y	—	NQ	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.27	0.579	1.61	—	pCi/L	Y	—	NQ	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.55	0.64	1.81	—	pCi/L	Y	—	NQ	2014-3500	CAPU-14-79430	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.44	0.681	2	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	10.3	1.3	2.54	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	214	—	—	0.453	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	209	—	—	0.453	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	211	—	—	0.453	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	219	—	—	0.453	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	217	—	—	0.453	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	16.1	—	—	0.11	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	16.3	—	—	0.11	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	16.3	—	—	0.11	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	16.8	—	—	0.11	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	16.6	—	—	0.11	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.942	—	—	0.165	µg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.849	—	—	0.165	µg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.933	—	—	0.165	µg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.13	—	—	0.165	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.921	—	—	0.165	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.14	3.51	11.4	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.78	2.48	9.61	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.72	2.3	8.03	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.881	2.56	8.69	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.52	2.12	7.61	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.5	—	—	0.5	µg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.69	—	—	0.5	µg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.6	—	—	0.5	µg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.56	—	—	0.5	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	8.24	—	—	0.5	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.76	—	—	0.085	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	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	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.29	—	—	0.17	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.35	—	—	0.085	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.83	—	—	0.425	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.67	—	—	0.1	µg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	1.91	—	—	0.2	µg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.04	—	—	0.2	µg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.2	—	—	0.25	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2.3	—	—	0.25	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00975	0.0103	0.0442	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	4.06E-10	0.00487	0.033	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00548	0.00672	0.0303	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00901	0.00712	0.0211	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.004	0.0049	0.0365	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.017	0.0106	0.0422	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00731	0.00808	0.0413	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00822	0.00909	0.0499	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00675	0.00928	0.0443	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.004	0.00566	0.0282	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.82	—	—	0.05	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.92	—	—	0.05	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.97	—	—	0.05	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.08	—	—	0.05	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.09	—	—	0.05	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-25.5	24.6	89.6	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.56	18.3	70.6	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.41	14	53.3	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	34.5	17.8	56.9	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.9	19.1	37.5	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	51.3	—	—	0.053	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	49.4	—	—	0.053	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	49.7	—	—	0.053	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	51.3	—	—	0.053	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	52.2	—	—	0.053	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	19.9	—	—	0.1	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	21.3	—	—	0.1	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	18.1	—	—	0.1	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.9	—	—	0.1	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.7	—	—	0.1	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.171	1.79	5.99	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.08	2.18	7.88	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.417	0.947	3.73	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.71	1.5	5.39	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.35	1.01	3.4	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	541	—	—	1	µS/cm	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	524	—	—	3.63	µS/cm	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	546	—	—	1	µS/cm	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	542	—	—	1	µS/cm	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	542	—	—	1	µS/cm	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	265	—	—	1	µg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	317	—	—	1	µg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	278	—	—	1	µg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	280	—	—	1	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	287	—	—	1	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.296	0.15	0.49	—	pCi/L	Y	U	U	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0603	0.121	0.472	—	pCi/L	Y	U	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.102	0.137	0.48	—	pCi/L	Y	U	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.272	0.147	0.481	—	pCi/L	Y	U	U	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.144	0.136	0.455	—	pCi/L	Y	U	U	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.1	—	—	1.33	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.4	—	—	1.33	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.8	—	—	1.33	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	28.2	—	—	1.33	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	29	—	—	0.133	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	18.1	—	—	2.5	µg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	200	—	—	50	µg/L	Y	U	U	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	349	—	—	3.4	mg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	319	—	—	3.4	mg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	331	—	—	3.4	mg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	329	—	—	3.4	mg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	300	—	—	3.4	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0752	—	—	0.033	mg/L	Y	J	J	2016-1311	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.121	—	—	0.033	mg/L	Y	—	U	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.101	—	—	0.033	mg/L	Y	—	U	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2013-926	CAPU-13-34778	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-3i	215.2	04/13/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.129	—	—	0.035	mg/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.829	—	—	0.33	mg/L	Y	J	J	2016-1311	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.689	—	—	0.33	mg/L	Y	J	J-	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.731	—	—	0.33	mg/L	Y	J	J	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.26	—	—	0.33	mg/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.35	—	—	0.33	mg/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0449	—	—	0.02	mg/L	Y	J	J	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0882	—	—	0.017	mg/L	Y	—	U	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0231	—	—	0.017	mg/L	Y	J	J	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0982	—	—	0.017	mg/L	Y	—	U	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0717	—	—	0.017	mg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	8.85	—	—	0.067	µg/L	Y	—	NQ	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	7.72	—	—	0.067	µg/L	Y	—	NQ	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	9.38	—	—	0.067	µg/L	Y	—	NQ	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	8.25	—	—	0.067	µg/L	Y	—	NQ	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	9.25	—	—	0.067	µg/L	Y	—	NQ	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.1	0.0895	0.0474	—	pCi/L	Y	—	NQ	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.16	0.12	0.0857	—	pCi/L	Y	—	NQ	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.45	0.105	0.0643	—	pCi/L	Y	—	NQ	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.35	0.103	0.0539	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	4.3	0.0968	0.0524	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.151	0.0202	0.0564	—	pCi/L	Y	—	NQ	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.119	0.0247	0.0547	—	pCi/L	Y	—	NQ	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.151	0.0224	0.0539	—	pCi/L	Y	—	NQ	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.203	0.0252	0.0419	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.133	0.0203	0.0302	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.66	0.0722	0.049	—	pCi/L	Y	—	NQ	2016-1316	CAPU-16-116869	GELC
R-3i	215.2	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.53	0.0939	0.0612	—	pCi/L	Y	—	NQ	2015-1328	CAPA-15-97490	GELC
R-3i	215.2	06/04/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.97	0.0861	0.0361	—	pCi/L	Y	—	NQ	2014-3500	CAPU-14-79430	GELC
R-3i	215.2	06/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.74	0.0822	0.0344	—	pCi/L	Y	—	NQ	2013-926	CAPU-13-34778	GELC
R-3i	215.2	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	2.88	0.0793	0.0337	—	pCi/L	Y	—	NQ	12-1225	CAPU-12-12566	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.06	—	—	1	µg/L	Y	J	J	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.66	—	—	1	µg/L	Y	J	J	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.36	—	—	1	µg/L	Y	J	J	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.69	—	—	1	µg/L	Y	J	J	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.35	—	—	1	µg/L	Y	J	J	12-1225	CAPU-12-12574	GELC
R-3i	215.2	06/02/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.66	—	—	3.3	µg/L	Y	J	J	2016-1311	CAPU-16-116877	GELC
R-3i	215.2	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6	—	—	3.3	µg/L	Y	J	J	2015-1328	CAPA-15-97498	GELC
R-3i	215.2	06/04/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-3500	CAPU-14-79438	GELC
R-3i	215.2	06/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.57	—	—	3.3	µg/L	Y	J	J	2013-926	CAPU-13-34786	GELC
R-3i	215.2	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.64	—	—	3.3	µg/L	Y	J	J	12-1225	CAPU-12-12574	GELC
R-4	792.9	05/31/16	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	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	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	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	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	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.22	—	—	0.01	SU	Y	H	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	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	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.2	—	—	0.33	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.6	—	—	0.725	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.1	—	—	0.725	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.6	—	—	0.725	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.2	—	—	0.725	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.8	—	—	0.725	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00541	0.00764	0.0531	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00415	0.00656	0.0399	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00275	0.00476	0.0476	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00616	0.00754	0.0533	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00629	0.00629	0.0478	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00601	0.00601	0.0361	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.83	—	—	1.7	µg/L	Y	J	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.75	—	—	1.7	µg/L	Y	J	J	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	38.3	—	—	1	µg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	37.4	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	38.5	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	36.5	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.9	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.7	—	—	1	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.5	—	—	15	µg/L	Y	J	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	25.4	—	—	15	µg/L	Y	J	J	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	27.3	—	—	15	µg/L	Y	J	J	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	26.6	—	—	15	µg/L	Y	J	J	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	25.3	—	—	15	µg/L	Y	J	J	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.9	—	—	15	µg/L	Y	J	J	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0771	—	—	0.067	mg/L	Y	J	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.6	—	—	0.05	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	17.8	—	—	0.05	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.4	—	—	0.05	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19	—	—	0.05	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.8	—	—	0.05	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.409	1.27	4.7	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.208	1.68	5.17	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.845	1.57	6.12	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1	1.53	5.75	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.225	1.28	4.78	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.42	1.58	6.02	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.19	—	—	0.067	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.71	—	—	0.067	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.89	—	—	0.067	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.91	—	—	0.067	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.33	—	—	0.067	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.35	—	—	0.067	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.28	—	—	2	µg/L	Y	J	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4	—	—	2	µg/L	Y	J	J	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.6	—	—	2	µg/L	Y	J	J	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.7	—	—	2	µg/L	Y	J	J	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.16	—	—	2	µg/L	Y	J	J	2013-940	CAPU-13-34787	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.49	—	—	2	µg/L	Y	J	J	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.16	1.59	5.74	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.25	1.11	3.86	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.71	1.52	7.29	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.81	1.29	5.83	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.601	1.3	4.74	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.28	1.68	5.92	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.601	—	—	0.033	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.645	—	—	0.033	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.832	—	—	0.033	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.909	—	—	0.033	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.706	—	—	0.033	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.711	—	—	0.033	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	1.19	0.385	1.15	—	pCi/L	Y	—	NQ	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.268	0.301	1.03	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.9	0.685	2.17	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.503	0.682	2.31	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.56	0.903	2.82	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.84	0.665	2.33	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.63	0.902	2.62	—	pCi/L	Y	—	NQ	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.2	0.314	0.883	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.82	0.48	1.48	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.47	0.517	1.63	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.2	0.599	1.92	—	pCi/L	Y	—	NQ	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.05	0.832	2.55	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	61.2	—	—	0.453	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	59.4	—	—	0.453	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.2	—	—	0.453	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.5	—	—	0.453	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.4	—	—	0.453	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.4	—	—	0.453	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.57	—	—	0.11	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.63	—	—	0.11	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.67	—	—	0.11	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.57	—	—	0.11	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.62	—	—	0.11	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.74	—	—	0.11	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	3.17	—	—	2	µg/L	Y	J	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.19	—	—	0.165	µg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.96	—	—	0.165	µg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.07	—	—	0.165	µg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.05	—	—	0.165	µg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.83	—	—	0.165	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2	—	—	0.165	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.51	3	9.6	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.978	2.54	8.94	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.34	3.09	11.4	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.67	2.86	10.5	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.54	2.79	10.5	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.83	3.19	11.7	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.828	—	—	0.5	µg/L	Y	J	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.743	—	—	0.5	µg/L	Y	J	J	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.857	—	—	0.5	µg/L	Y	J	J	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.881	—	—	0.5	µg/L	Y	J	J	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.02	—	—	0.5	µg/L	Y	J	J	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.53	—	—	0.5	µg/L	Y	J	J	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.72	—	—	0.085	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	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	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.21	—	—	0.017	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.17	—	—	0.085	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.58	—	—	0.085	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.67	—	—	0.17	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	3.99	—	—	0.25	µg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	2	—	—	0.2	µg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	3.22	—	—	0.25	µg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	3.16	—	—	0.25	µg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.81	—	—	0.5	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	4.79	—	—	0.5	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00202	0.00533	0.0406	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00428	0.00801	0.029	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0096	0.00576	0.0212	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00425	0.00521	0.0235	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00383	0.0253	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0075	0.00419	0.0342	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0101	0.00668	0.0357	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00856	0.00606	0.0363	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00768	0.0112	0.035	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0213	0.00737	0.0387	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00811	0.00605	0.0533	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0113	0.00459	0.0265	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.76	—	—	0.05	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.7	—	—	0.05	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.7	—	—	0.05	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.62	—	—	0.05	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.6	—	—	0.05	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.79	—	—	0.05	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.867	19.3	75.8	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.4	15.2	55.1	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.8	18.3	78.6	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-1.58	18	73	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.62	16.1	68.3	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.59	18	69.6	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.1	—	—	0.053	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.2	—	—	0.053	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.8	—	—	0.053	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.8	—	—	0.053	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.8	—	—	0.053	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.9	—	—	0.053	mg/L	Y	—	J-	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.3	—	—	0.1	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	12	—	—	0.1	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.7	—	—	0.1	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.145	1.34	5.2	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.79	1.36	4.62	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.582	1.48	6.11	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.655	1.71	6.19	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.438	1.34	4.93	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.931	1.6	6.3	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	174	—	—	3.63	µS/cm	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	175	—	—	3.63	µS/cm	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	180	—	—	1	µS/cm	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	186	—	—	1	µS/cm	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	190	—	—	1	µS/cm	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	184	—	—	1	µS/cm	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	86.4	—	—	1	µg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	93.3	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	89.2	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	86.9	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	86.2	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	87	—	—	1	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.284	0.123	0.495	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.317	0.134	0.422	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.334	0.155	0.493	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.187	0.117	0.495	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.276	0.146	0.478	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0346	0.124	0.421	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.11	—	—	0.133	mg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.27	—	—	0.133	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.79	—	—	0.133	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.76	—	—	0.133	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.12	—	—	0.133	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.04	—	—	0.133	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	2.53	—	—	2.5	µg/L	Y	J	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	N	H	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	181	—	—	3.4	mg/L	Y	—	J	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	160	—	—	3.4	mg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	3.4	mg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	3.4	mg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	3.4	mg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	35.56	5.445	1.925	—	pCi/L	Y	—	J	2016-1301	CAPU-16-116870	ARSL
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	20.103	3.174	2.197	—	pCi/L	Y	—	NQ	2015-1348	CAPA-15-97491	ARSL
R-4	792.9	03/16/11	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.1288	0.644	2.2218	—	pCi/L	Y	U	U	11-1713	CAPU-11-5298	ARSL
R-4	792.9	03/16/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.1574	0.6762	2.2218	—	pCi/L	N	U	R	11-1713	CAPU-11-5298	ARSL
R-4	792.9	07/16/09	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	52.486	1.61	0.2898	—	pCi/L	Y	—	NQ	09-2698	CAPU-09-11266	UMTL
R-4	792.9	07/16/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	50.554	1.61	0.2898	—	pCi/L	Y	—	NQ	09-2698	CAPU-09-11263	UMTL
R-4	792.9	01/22/09	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	52.486	1.61	0.2898	—	pCi/L	Y	—	NQ	09-762	CAPU-09-1800	UMTL

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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-4	792.9	01/22/09	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	52.164	1.61	0.2898	—	pCi/L	Y	—	NQ	09-762	CAPU-09-1801	UMTL
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.828	—	—	0.067	µg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.09	—	—	0.067	µg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.811	—	—	0.067	µg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.783	—	—	0.067	µg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.835	—	—	0.067	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.696	—	—	0.067	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.615	0.0529	0.154	—	pCi/L	Y	—	NQ	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.642	0.049	0.091	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.738	0.0478	0.0764	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.566	0.0419	0.0762	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.618	0.0422	0.0617	—	pCi/L	Y	—	NQ	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.511	0.0395	0.0639	—	pCi/L	Y	—	NQ	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0137	0.0117	0.106	—	pCi/L	Y	U	U	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0104	0.0102	0.058	—	pCi/L	Y	U	U	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0182	0.00966	0.064	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0182	0.0109	0.0639	—	pCi/L	Y	U	U	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0139	0.0085	0.048	—	pCi/L	Y	U	U	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00795	0.0369	—	pCi/L	Y	U	U	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.264	0.0348	0.101	—	pCi/L	Y	—	NQ	2016-1292	CAPU-16-116870	GELC
R-4	792.9	06/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.252	0.0321	0.0649	—	pCi/L	Y	—	NQ	2015-1335	CAPA-15-97491	GELC
R-4	792.9	06/03/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.266	0.0301	0.0429	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79431	GELC
R-4	792.9	06/03/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.303	0.0308	0.0428	—	pCi/L	Y	—	NQ	2014-3494	CAPU-14-79415	GELC
R-4	792.9	06/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.219	0.0251	0.0394	—	pCi/L	Y	—	NQ	2013-940	CAPU-13-34779	GELC
R-4	792.9	04/13/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.205	0.0238	0.041	—	pCi/L	Y	—	NQ	12-1224	CAPU-12-12567	GELC
R-4	792.9	05/31/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.15	—	—	1	µg/L	Y	—	NQ	2016-1292	CAPU-16-116878	GELC
R-4	792.9	06/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7	—	—	1	µg/L	Y	—	NQ	2015-1335	CAPA-15-97499	GELC
R-4	792.9	06/03/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.31	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79439	GELC
R-4	792.9	06/03/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.48	—	—	1	µg/L	Y	—	NQ	2014-3494	CAPU-14-79416	GELC
R-4	792.9	06/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.78	—	—	1	µg/L	Y	—	NQ	2013-940	CAPU-13-34787	GELC
R-4	792.9	04/13/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.44	—	—	1	µg/L	Y	—	NQ	12-1224	CAPU-12-12575	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	Y	3.94	—	—	3	µg/L	Y	J	J	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3	µg/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3	µg/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3	µg/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3.5	µg/L	Y	U	UJ	11-3366	CAPU-11-26374	GELC
TW-2Ar	102	08/29/11	WG	UF	INIT	FD	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3.5	µg/L	Y	U	UJ	11-3366	CAPU-11-26377	GELC
TW-2Ar	102	06/20/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Acetone	67-64-1	N	10	—	—	3.5	µg/L	Y	U	U	11-2707	CAPU-11-13928	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.54	—	—	0.01	SU	Y	H	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.51	—	—	0.01	SU	Y	H	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.41	—	—	0.01	SU	Y	H	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.48	—	—	0.01	SU	Y	H	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.22	—	—	0.01	SU	Y	H	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.16	—	—	0.01	SU	Y	H	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.91	—	—	0.01	SU	Y	H	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.91	—	—	0.01	SU	Y	H	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.5	—	—	0.33	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.3	—	—	0.33	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.9	—	—	0.725	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.1	—	—	0.725	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.7	—	—	0.725	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.8	—	—	0.725	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.8	—	—	0.725	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.8	—	—	0.725	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0135	0.00642	0.0222	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0124	0.00983	0.0356	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0116	0.00821	0.0558	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	3.28E-10	0.00393	0.034	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00292	0.00772	0.0443	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0214	0.0692	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	9.22E-10	0.00452	0.0332	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	1.03E-09	0.00506	0.0372	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	67.4	—	—	1	µg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	67.2	—	—	1	µg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	64.8	—	—	1	µg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	65.5	—	—	1	µg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.4	—	—	1	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	65	—	—	1	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.2	—	—	1	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	61	—	—	1	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	154	—	—	15	µg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	159	—	—	15	µg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	159	—	—	15	µg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	156	—	—	15	µg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	157	—	—	15	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	164	—	—	15	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	174	—	—	15	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	168	—	—	15	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0808	—	—	0.067	mg/L	Y	J	J	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0831	—	—	0.067	mg/L	Y	J	J	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.105	—	—	0.067	mg/L	Y	J	J	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0802	—	—	0.067	mg/L	Y	J	J	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0987	—	—	0.067	mg/L	Y	J	J	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0807	—	—	0.067	mg/L	Y	J	J	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0857	—	—	0.067	mg/L	Y	J	J	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	35.5	—	—	0.05	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	35.8	—	—	0.05	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	37.4	—	—	0.05	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	37.4	—	—	0.05	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	37.2	—	—	0.05	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	38.8	—	—	0.05	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	37.1	—	—	0.05	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	36.3	—	—	0.05	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.1	1.27	4.22	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.353	1.33	4.67	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.1	1.59	6.23	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.466	1.77	6.48	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	RE	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.55	1.55	5.86	—	pCi/L	Y	U	U	2013-935-1	CAPU-13-34770	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.08	1.4	4.75	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	Y	11.7	2.77	4.32	—	pCi/L	N	—	R	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.296	0.688	2.38	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.142	1.01	3.55	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	45.1	—	—	0.67	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	44.5	—	—	0.67	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	45.9	—	—	0.67	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	48.1	—	—	0.67	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	40.2	—	—	0.67	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	41.1	—	—	0.67	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	50.8	—	—	0.335	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	48.7	—	—	0.335	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.66	1.33	4.1	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.772	1.37	5.05	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.91	1.52	6.3	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.306	1.99	7.56	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.2	1.21	5.63	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.55	1.37	4.89	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.04	0.762	2.99	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.069	0.955	3.45	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.13	—	—	0.033	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.139	—	—	0.033	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.137	—	—	0.033	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.288	—	—	0.033	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.16	—	—	0.033	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.17	—	—	0.033	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.198	—	—	0.033	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.206	—	—	0.033	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	2.97	1.08	2.95	—	pCi/L	Y	—	NQ	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.729	0.659	2.32	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.257	0.409	1.42	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.45	0.791	3	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.604	0.757	2.99	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.113	0.442	2.07	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.47	0.993	2.6	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.34	0.658	2.84	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.57	0.363	1.03	—	pCi/L	Y	—	NQ	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.83	0.5	1.54	—	pCi/L	Y	—	NQ	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.28	0.423	1.36	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.32	0.544	1.73	—	pCi/L	Y	—	NQ	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.48	0.603	1.92	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.78	0.516	1.62	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.78	0.823	2.29	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.02	0.608	1.99	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	116	—	—	0.453	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	117	—	—	0.453	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	122	—	—	0.453	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	121	—	—	0.453	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	121	—	—	0.453	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	126	—	—	0.453	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	122	—	—	0.453	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	119	—	—	0.453	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.76	—	—	0.11	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.83	—	—	0.11	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	7.05	—	—	0.11	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	6.83	—	—	0.11	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.83	—	—	0.11	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.1	—	—	0.11	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.04	—	—	0.11	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.91	—	—	0.11	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.573	—	—	0.165	µg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.446	—	—	0.165	µg/L	Y	J	J	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.441	—	—	0.165	µg/L	Y	J	J	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.427	—	—	0.165	µg/L	Y	J	J	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.908	—	—	0.165	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.23	—	—	0.165	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.01	2.48	9.06	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.66	2.26	8.04	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.793	3.12	10.7	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5	2.93	11.5	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.49	2.75	9.91	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.355	3.17	9.55	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.6	1.44	4.97	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.54	1.91	6.19	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.17	—	—	0.5	µg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.35	—	—	0.5	µg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.17	—	—	0.5	µg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.08	—	—	0.5	µg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	20.1	—	—	0.5	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	19.4	—	—	0.5	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	10.6	—	—	0.5	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.99	—	—	0.5	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.49	—	—	0.085	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.68	—	—	0.085	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.52	—	—	0.085	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.18	—	—	0.17	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.78	—	—	0.085	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.84	—	—	0.085	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.91	—	—	0.17	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	2.78	—	—	0.17	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.42	—	—	0.05	µg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.486	—	—	0.05	µg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.483	—	—	0.05	µg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.469	—	—	0.05	µg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.475	—	—	0.05	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.495	—	—	0.05	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.524	—	—	0.05	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.518	—	—	0.05	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00292	0.0374	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00291	0.00652	0.0528	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0174	0.00919	0.0393	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00279	0.0122	0.0308	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00474	0.00474	0.0222	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0105	0.00632	0.0197	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.000835	0.00392	0.0455	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00208	0.00806	0.038	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00206	0.00357	0.0357	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00874	0.00771	0.0504	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0029	0.00871	0.0493	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0139	0.0128	0.0508	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0118	0.00854	0.0467	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0211	0.00894	0.0415	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00928	0.00464	0.035	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0167	0.00721	0.0294	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.09	—	—	0.05	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.14	—	—	0.05	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.1	—	—	0.05	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.14	—	—	0.05	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.17	—	—	0.05	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.25	—	—	0.05	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.34	—	—	0.05	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.3	—	—	0.05	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.4	18.3	48.1	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	7.9	16.3	63.4	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	9.79	21.3	82.9	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	20.4	20.7	83.8	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-31.3	14.8	54.7	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-6.66	17.9	64.6	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	6.16	13.1	24.6	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	13	11.3	42.6	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.6	—	—	0.053	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.9	—	—	0.053	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.3	—	—	0.053	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.9	—	—	0.053	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.4	—	—	0.053	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.5	—	—	0.053	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.6	—	—	0.053	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.5	—	—	0.053	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	24.2	—	—	0.1	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	24.5	—	—	0.1	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	25.1	—	—	0.1	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	21.9	—	—	0.1	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	22.5	—	—	0.1	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.2	—	—	0.1	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	24	—	—	0.1	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.6	—	—	0.1	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-4.5	1.59	5.27	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.83	1.15	3.58	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.38	1.55	4.46	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.75	2.1	6.77	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.3	1.41	5.41	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.7	1.09	4.79	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.691	0.684	2.56	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.365	1.11	3.9	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	386	—	—	1	µS/cm	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	379	—	—	1	µS/cm	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	366	—	—	3.63	µS/cm	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	381	—	—	1	µS/cm	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	385	—	—	1	µS/cm	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	384	—	—	1	µS/cm	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	381	—	—	1	µS/cm	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	382	—	—	1	µS/cm	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	197	—	—	1	µg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	197	—	—	1	µg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	231	—	—	1	µg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	203	—	—	1	µg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	196	—	—	1	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	204	—	—	1	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	208	—	—	1	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	205	—	—	1	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0386	0.135	0.492	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.3	0.123	0.494	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.151	0.142	0.485	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.149	0.141	0.485	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0632	0.14	0.495	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0317	0.136	0.482	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0832	0.115	0.396	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.377	0.134	0.427	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	26	—	—	1.33	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.8	—	—	1.33	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.7	—	—	1.33	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.7	—	—	1.33	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	22.1	—	—	1.33	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	22.7	—	—	1.33	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	24.6	—	—	0.133	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	25.9	—	—	0.133	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	15.2	—	—	2.5	µg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Tin	Sn	Y	16.8	—	—	2.5	µg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	304	—	—	3.4	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	326	—	—	3.4	mg/L	Y	—	J	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	283	—	—	3.4	mg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	297	—	—	3.4	mg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	296	—	—	3.4	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	281	—	—	3.4	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	249	—	—	3.4	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	253	—	—	3.4	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.93	—	—	0.33	mg/L	Y	—	NQ	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3	—	—	0.33	mg/L	Y	—	NQ	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.97	—	—	0.33	mg/L	Y	—	J-	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.06	—	—	0.33	mg/L	Y	—	NQ	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.53	—	—	0.33	mg/L	Y	—	NQ	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.47	—	—	0.33	mg/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1.56	—	—	0.33	mg/L	Y	—	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1.6	—	—	0.33	mg/L	Y	—	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0732	—	—	0.02	mg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.061	—	—	0.02	mg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.117	—	—	0.017	mg/L	Y	—	U	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0535	—	—	0.017	mg/L	Y	—	U	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.217	—	—	0.017	mg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.233	—	—	0.017	mg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.302	—	—	0.017	mg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
TW-2Ar	102	04/17/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.321	—	—	0.017	mg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	191	62.9	203	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	209	62.2	200	—	pCi/L	Y	—	NQ	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	203	55.9	177	—	pCi/L	Y	—	NQ	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	276	61.9	173	—	pCi/L	Y	—	NQ	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	188	54.4	174	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	203	55.5	177	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	Y	352	60.6	152	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	Y	334	59.7	151	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.292	—	—	0.067	µg/L	Y	—	NQ	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.262	—	—	0.067	µg/L	Y	—	NQ	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.26	—	—	0.067	µg/L	Y	—	NQ	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.336	—	—	0.067	µg/L	Y	—	NQ	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.261	—	—	0.067	µg/L	Y	—	NQ	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.27	—	—	0.067	µg/L	Y	—	NQ	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.222	—	—	0.067	µg/L	Y	—	NQ	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.227	—	—	0.067	µg/L	Y	—	NQ	12-1232	CAPU-12-12577	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.195	0.0266	0.053	—	pCi/L	Y	—	NQ	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.278	0.0328	0.0838	—	pCi/L	Y	—	NQ	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.21	0.0303	0.0932	—	pCi/L	Y	—	NQ	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.198	0.0249	0.0712	—	pCi/L	Y	—	NQ	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.181	0.0214	0.0492	—	pCi/L	Y	—	J	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.202	0.0231	0.0521	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.196	0.0293	0.0856	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.174	0.0287	0.0809	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0241	0.0117	0.063	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00424	0.00949	0.0997	—	pCi/L	Y	U	U	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00575	0.0595	—	pCi/L	Y	U	U	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.017	0.0123	0.0597	—	pCi/L	Y	U	U	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0138	0.00831	0.0383	—	pCi/L	Y	U	U	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0205	0.0088	0.0406	—	pCi/L	Y	U	U	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00435	0.00615	0.0494	—	pCi/L	Y	U	U	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00411	0.0109	0.0467	—	pCi/L	Y	U	U	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0998	0.0184	0.0547	—	pCi/L	Y	—	J	2016-1296	CAPU-16-116871	GELC
TW-2Ar	102	06/01/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.137	0.0238	0.0866	—	pCi/L	Y	—	NQ	2016-1296	CAPU-16-116854	GELC
TW-2Ar	102	06/01/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.14	0.0249	0.0665	—	pCi/L	Y	—	NQ	2015-1327	CAPA-15-97492	GELC
TW-2Ar	102	06/02/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.113	0.0193	0.04	—	pCi/L	Y	—	NQ	2014-3481	CAPU-14-79432	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0829	0.0147	0.0314	—	pCi/L	Y	—	J	2013-935	CAPU-13-34780	GELC
TW-2Ar	102	06/06/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.083	0.0148	0.0333	—	pCi/L	Y	—	NQ	2013-935	CAPU-13-34770	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0809	0.0176	0.055	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12568	GELC
TW-2Ar	102	04/17/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.106	0.0194	0.052	—	pCi/L	Y	—	NQ	12-1232	CAPU-12-12579	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	2016-1296	CAPU-16-116879	GELC
TW-2Ar	102	06/01/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.07	—	—	1	µg/L	Y	J	J	2016-1296	CAPU-16-116855	GELC
TW-2Ar	102	06/01/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.26	—	—	1	µg/L	Y	J	J	2015-1327	CAPA-15-97500	GELC
TW-2Ar	102	06/02/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.29	—	—	1	µg/L	Y	J	J	2014-3481	CAPU-14-79440	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.41	—	—	1	µg/L	Y	J	J	2013-935	CAPU-13-34788	GELC
TW-2Ar	102	06/06/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.07	—	—	1	µg/L	Y	J	J	2013-935	CAPU-13-34771	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.43	—	—	1	µg/L	Y	J	J	12-1232	CAPU-12-12576	GELC
TW-2Ar	102	04/17/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.61	—	—	1	µg/L	Y	J	J	12-1232	CAPU-12-12577	GELC
Vine Tree Spring	—	06/16/16	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	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	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	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2015-551	CALA-15-90570	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.86	—	—	0.01	SU	Y	H	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.62	—	—	0.01	SU	Y	H	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	84.3	—	—	0.725	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	85.6	—	—	0.725	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.8	—	—	0.725	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	83.7	—	—	0.725	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	83.3	—	—	0.725	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	80.4	—	—	0.725	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0143	0.00789	0.0233	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00299	0.00792	0.0576	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00199	0.00596	0.0368	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00284	0.00492	0.0432	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00758	0.0297	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.54	—	—	1.7	µg/L	Y	J	J	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.16	—	—	1.7	µg/L	Y	J	J	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.81	—	—	1.7	µg/L	Y	J	J	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	42.9	—	—	1	µg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	43.1	—	—	1	µg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	44.2	—	—	1	µg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	44	—	—	1	µg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	42.6	—	—	1	µg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	49.6	—	—	1	µg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19.1	—	—	15	µg/L	Y	J	J	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	23.8	—	—	15	µg/L	Y	J	J	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19.8	—	—	15	µg/L	Y	J	J	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19.6	—	—	15	µg/L	Y	J	J	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	23.4	—	—	15	µg/L	Y	J	J	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	27.4	—	—	15	µg/L	Y	J	J	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.177	—	—	0.067	mg/L	Y	J	J	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.155	—	—	0.067	mg/L	Y	J	J	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.163	—	—	0.067	mg/L	Y	J	J	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.16	—	—	0.067	mg/L	Y	J	J	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.181	—	—	0.067	mg/L	Y	J	J	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.159	—	—	0.067	mg/L	Y	J	J	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	29	—	—	0.05	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	28.4	—	—	0.05	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	28.2	—	—	0.05	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	29	—	—	0.05	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	27.6	—	—	0.05	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	27.9	—	—	0.05	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.45	1.67	4.96	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.91	1.77	5.41	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.61	1.49	5.37	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.92	0.955	3.66	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.633	1.58	5.86	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	15.8	—	—	0.134	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	15.9	—	—	0.134	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	15.7	—	—	0.134	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	15.7	—	—	0.134	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	15.5	—	—	0.335	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.5	—	—	0.335	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.15	—	—	2	µg/L	Y	J	J	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.19	—	—	2	µg/L	Y	J	J	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.82	—	—	2	µg/L	Y	J	J	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.24	—	—	2	µg/L	Y	J	J	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.257	1.38	5.16	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.28	1.38	5.84	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.482	1.3	4.79	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.381	0.885	3.3	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.57	1.36	4.65	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	4.52	—	—	3	µg/L	Y	J	J	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.476	—	—	0.033	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.461	—	—	0.033	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.477	—	—	0.033	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.475	—	—	0.033	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.693	—	—	0.033	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.486	—	—	0.033	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.99	1.08	2.87	—	pCi/L	Y	—	NQ	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	1.34	0.428	1.3	—	pCi/L	Y	—	NQ	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.905	0.447	1.45	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.818	0.801	2.97	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.02	0.827	2.9	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.4	0.546	1.57	—	pCi/L	Y	—	J	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.14	0.469	1.3	—	pCi/L	Y	—	NQ	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.79	0.74	1.66	—	pCi/L	Y	—	NQ	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.04	0.504	1.32	—	pCi/L	Y	—	NQ	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.15	0.979	2.92	—	pCi/L	Y	—	NQ	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	107	—	—	0.453	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	103	—	—	0.453	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	104	—	—	0.453	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	105	—	—	0.453	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	101	—	—	0.453	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	102	—	—	0.453	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.3	—	—	0.11	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	7.82	—	—	0.11	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.12	—	—	0.11	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	8.02	—	—	0.11	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	7.75	—	—	0.11	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	7.86	—	—	0.11	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.26	—	—	0.165	µg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.34	—	—	0.165	µg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.33	—	—	0.165	µg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.14	—	—	0.165	µg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.33	—	—	0.165	µg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.22	—	—	0.165	µg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.854	2.73	9.51	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.32	3.04	10.5	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.231	2.73	9.59	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.36	1.97	6.64	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.03	2.92	9.99	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.583	—	—	0.5	µg/L	Y	J	J	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.887	—	—	0.5	µg/L	Y	J	J	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.674	—	—	0.5	µg/L	Y	J	J	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.604	—	—	0.5	µg/L	Y	J	J	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	4.22	—	—	0.085	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.75	—	—	0.17	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.4	—	—	0.17	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.38	—	—	0.085	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.44	—	—	0.17	mg/L	Y	—	J	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	3.6	—	—	0.085	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.95	—	—	0.5	µg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.83	—	—	0.5	µg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.59	—	—	0.5	µg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.54	—	—	0.5	µg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.89	—	—	0.5	µg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	5.66	—	—	0.5	µg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0268	0.00892	0.0404	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00813	0.00498	0.0275	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00247	0.00499	0.0275	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-4.24E-10	0.00509	0.0238	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00593	0.00593	0.043	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0201	0.0107	0.0386	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00203	0.00538	0.0345	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0102	0.00932	0.053	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0153	0.00881	0.0501	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00791	0.0074	0.033	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.17	—	—	0.05	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.48	—	—	0.05	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.37	—	—	0.05	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.68	—	—	0.05	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	4.49	—	—	0.05	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	5.27	—	—	0.05	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	9.87	14	53.6	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-39.1	16.7	56.4	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.6	16.4	63.1	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.19	14	48.3	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20	18.4	67.4	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.89	—	—	1.5	µg/L	Y	J	J	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.55	—	—	1.5	µg/L	Y	J	J	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	µg/L	Y	U	U	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.97	—	—	1.5	µg/L	Y	J	J	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	41.3	—	—	0.053	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	42	—	—	0.53	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	41.9	—	—	0.053	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	42.2	—	—	0.053	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	40.2	—	—	0.053	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	45.3	—	—	0.053	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	15.7	—	—	0.1	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	15.8	—	—	0.1	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	14.4	—	—	0.1	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	14.7	—	—	0.1	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	14.4	—	—	0.1	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.1	—	—	0.1	mg/L	Y	N	J+	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.97	1.12	4.76	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.943	1.39	5.1	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0431	1.08	4.25	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.58	1.06	3.38	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.95	1.54	5.22	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	301	—	—	1	µS/cm	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	318	—	—	1	µS/cm	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	282	—	—	3.63	µS/cm	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	275	—	—	3.63	µS/cm	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	299	—	—	1	µS/cm	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	309	—	—	1	µS/cm	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	136	—	—	1	µg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	137	—	—	1	µg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	146	—	—	1	µg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	141	—	—	1	µg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	127	—	—	1	µg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	139	—	—	1	µg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0995	0.114	0.468	—	pCi/L	Y	U	U	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.15	0.138	0.479	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0468	0.0967	0.357	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00638	0.132	0.472	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.231	0.148	0.492	—	pCi/L	Y	U	U	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.1	—	—	0.266	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20.7	—	—	0.266	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.1	—	—	0.266	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.2	—	—	0.266	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	20.7	—	—	0.665	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	21.7	—	—	0.665	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	Y	15	—	—	2.5	µg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	50	—	—	12.5	µg/L	Y	U	U	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	10	—	—	2.5	µg/L	Y	U	U	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Tin	Sn	N	100	—	—	25	µg/L	Y	U	U	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	209	—	—	3.4	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	216	—	—	3.4	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	206	—	—	3.4	mg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	169	—	—	3.4	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	197	—	—	3.4	mg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.539	—	—	0.33	mg/L	Y	J	J	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	12/08/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.569	—	—	0.33	mg/L	Y	J	J	2016-474	CALA-16-106806	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.36	—	—	0.33	mg/L	Y	J	J-	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	12/16/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.946	—	—	0.33	mg/L	Y	J	J	2015-551	CALA-15-90561	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.616	—	—	0.33	mg/L	Y	J	J	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	12/17/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.31	—	—	0.33	mg/L	Y	—	NQ	2014-2698	CALA-14-46053	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.139	—	—	0.02	mg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.193	—	—	0.017	mg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.154	—	—	0.017	mg/L	Y	—	U	2015-1321	CALA-15-97455	GELC

Table C-2 Los Alamos and Pueblo Watersheds, General Surviellance 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
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.134	—	—	0.017	mg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0756	—	—	0.017	mg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	06/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.317	—	—	0.017	mg/L	Y	—	NQ	2013-947	CALA-13-33435	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	50.887	7.787	2.547	—	pCi/L	Y	—	J	2016-1473	CALA-16-116845	ARSL
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	63.812	9.699	2.399	—	pCi/L	Y	—	NQ	2015-1347	CALA-15-97436	ARSL
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	56.855	16.915	1.95	—	pCi/L	Y	—	J-	2014-3585	CALA-14-79460	ARSL
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	55.25	8.44	2.7	—	pCi/L	Y	—	J-	2013-948	CALA-13-33427	ARSL
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	62.506	9.487	2.189	—	pCi/L	Y	—	NQ	12-1208	CALA-12-12546	ARSL
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.13	—	—	0.067	µg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.87	—	—	0.067	µg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.23	—	—	0.067	µg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.78	—	—	0.067	µg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.98	—	—	0.067	µg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.58	—	—	0.067	µg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.19	0.0539	0.0565	—	pCi/L	Y	—	J	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.21	0.0691	0.0962	—	pCi/L	Y	—	NQ	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.2	0.0556	0.0656	—	pCi/L	Y	—	NQ	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.977	0.0552	0.0665	—	pCi/L	Y	—	NQ	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.854	0.0487	0.0654	—	pCi/L	Y	—	J	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0859	0.0167	0.0673	—	pCi/L	Y	—	NQ	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0254	0.0136	0.0614	—	pCi/L	Y	U	U	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.047	0.0129	0.055	—	pCi/L	Y	U	U	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.015	0.00916	0.0517	—	pCi/L	Y	U	U	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0399	0.0124	0.0378	—	pCi/L	Y	—	NQ	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.667	0.0402	0.0584	—	pCi/L	Y	—	NQ	2016-1411	CALA-16-116845	GELC
Vine Tree Spring	—	05/28/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.661	0.0515	0.0686	—	pCi/L	Y	—	NQ	2015-1321	CALA-15-97436	GELC
Vine Tree Spring	—	06/18/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.674	0.0418	0.0368	—	pCi/L	Y	—	NQ	2014-3584	CALA-14-79460	GELC
Vine Tree Spring	—	06/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.669	0.0454	0.0425	—	pCi/L	Y	—	NQ	2013-947	CALA-13-33427	GELC
Vine Tree Spring	—	04/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.548	0.0386	0.0421	—	pCi/L	Y	—	J	12-1209	CALA-12-12546	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.9	—	—	1	µg/L	Y	—	NQ	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.06	—	—	1	µg/L	Y	—	NQ	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.21	—	—	1	µg/L	Y	—	NQ	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.86	—	—	1	µg/L	Y	—	NQ	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.94	—	—	1	µg/L	Y	—	NQ	2014-3584	CALA-14-79466	GELC
Vine Tree Spring	—	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.06	—	—	1	µg/L	Y	—	NQ	2014-2698	CALA-14-46054	GELC
Vine Tree Spring	—	06/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.24	—	—	3.3	µg/L	Y	J	J	2016-1411	CALA-16-116851	GELC
Vine Tree Spring	—	12/08/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2016-474	CALA-16-106814	GELC
Vine Tree Spring	—	05/28/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2015-1321	CALA-15-97455	GELC
Vine Tree Spring	—	12/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.78	—	—	3.3	µg/L	Y	J	J	2015-551	CALA-15-90570	GELC
Vine Tree Spring	—	06/18/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-3584	CALA-14-79466	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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
MCO-7	39	05/13/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.94	—	—	0.033	mg/L	Y	—	NQ	2016-1212	CAMO-16-116067	GELC
MCO-7	39	02/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.928	—	—	0.033	mg/L	Y	—	NQ	2016-749	CAMO-16-110081	GELC
MCO-7	39	11/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.999	—	—	0.033	mg/L	Y	—	NQ	2016-363	CAMO-16-106412	GELC
MCO-7	39	08/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.845	—	—	0.033	mg/L	Y	—	NQ	2015-2225	CAMO-15-102594	GELC
MCO-7	39	08/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.858	—	—	0.033	mg/L	Y	—	NQ	2015-2185	CAMO-15-102740	GELC
MCO-7	39	05/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.882	—	—	0.033	mg/L	Y	—	NQ	2015-1222	CAMO-15-95736	GELC
MCO-7	39	11/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.973	—	—	0.33	mg/L	Y	J	J	2015-421	CAMO-15-91033	GELC
MCO-7	39	05/13/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.637	—	—	0.017	mg/L	Y	—	NQ	2016-1212	CAMO-16-116067	GELC
MCO-7	39	02/12/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.903	—	—	0.017	mg/L	Y	—	NQ	2016-749	CAMO-16-110081	GELC
MCO-7	39	11/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.73	—	—	0.017	mg/L	Y	—	NQ	2016-363	CAMO-16-106412	GELC
MCO-7	39	08/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.05	—	—	0.017	mg/L	Y	—	NQ	2015-2225	CAMO-15-102594	GELC
MCO-7	39	08/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.44	—	—	0.085	mg/L	Y	—	NQ	2015-2185	CAMO-15-102740	GELC
MCO-7	39	05/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.11	—	—	0.085	mg/L	Y	—	NQ	2015-1222	CAMO-15-95736	GELC
MCO-7	39	11/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.54	—	—	0.085	mg/L	Y	—	NQ	2015-421	CAMO-15-91033	GELC
MCO-7	39	05/13/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	6.67	—	—	0.5	ug/L	Y	—	NQ	2016-1212	CAMO-16-116067	GELC
MCO-7	39	02/12/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	8.33	—	—	1	ug/L	Y	—	NQ	2016-749	CAMO-16-110081	GELC
MCO-7	39	11/17/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	10.1	—	—	1	ug/L	Y	—	NQ	2016-363	CAMO-16-106412	GELC
MCO-7	39	08/20/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	9.58	—	—	1	ug/L	Y	—	NQ	2015-2225	CAMO-15-102594	GELC
MCO-7	39	08/17/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	11.4	—	—	1	ug/L	Y	—	NQ	2015-2185	CAMO-15-102740	GELC
MCO-7	39	05/18/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	10.2	—	—	1	ug/L	Y	—	NQ	2015-1222	CAMO-15-95736	GELC
MCO-7	39	11/24/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	11.9	—	—	1	ug/L	Y	—	NQ	2015-421	CAMO-15-91033	GELC
MCO-7	39	05/13/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	323	—	—	3.4	mg/L	Y	—	NQ	2016-1212	CAMO-16-116067	GELC
MCO-7	39	02/12/16	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	309	—	—	3.4	mg/L	Y	H	NQ	2016-749	CAMO-16-110081	GELC
MCO-7	39	11/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	333	—	—	3.4	mg/L	Y	—	NQ	2016-363	CAMO-16-106412	GELC
MCO-7	39	08/20/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	407	—	—	3.4	mg/L	Y	—	NQ	2015-2225	CAMO-15-102594	GELC
MCO-7	39	08/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	430	—	—	3.4	mg/L	Y	—	NQ	2015-2185	CAMO-15-102740	GELC
MCO-7	39	05/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	397	—	—	3.4	mg/L	Y	—	NQ	2015-1222	CAMO-15-95736	GELC
MCO-7	39	11/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	399	—	—	3.4	mg/L	Y	—	NQ	2015-421	CAMO-15-91033	GELC
MCO-7	39	05/13/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0523	—	—	0.033	mg/L	Y	J	J	2016-1212	CAMO-16-116067	GELC
MCO-7	39	11/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0413	—	—	0.033	mg/L	Y	J	J	2016-363	CAMO-16-106412	GELC
MCO-7	39	08/17/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.104	—	—	0.033	mg/L	Y	—	NQ	2015-2185	CAMO-15-102740	GELC
MCO-7	39	05/18/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.156	—	—	0.033	mg/L	Y	—	NQ	2015-1222	CAMO-15-95736	GELC
MCO-7	39	11/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0969	—	—	0.033	mg/L	Y	J	J	2015-421	CAMO-15-91033	GELC
MCO-7	39	05/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.159	—	—	0.033	mg/L	Y	—	NQ	2014-3434	CAMO-14-76546	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.67	—	—	0.01	SU	Y	H	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	—	—	0.01	SU	Y	H	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	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	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	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	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.9	—	—	0.725	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	77.7	—	—	0.725	mg/L	Y	—	J+	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	81.5	—	—	0.725	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.2	—	—	0.725	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	82.7	—	—	0.725	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	80.7	—	—	0.725	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0021	0.00629	0.0283	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00442	0.00765	0.0355	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00759	0.00537	0.032	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00696	0.0356	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.003	0.00795	0.0376	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00496	0.048	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.12	—	—	0.017	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0433	—	—	0.017	mg/L	Y	J	U	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0746	—	—	0.017	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0892	—	—	0.017	mg/L	Y	—	U	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0926	—	—	0.017	mg/L	Y	—	U	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0173	—	—	0.017	mg/L	Y	J	U	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.3	—	—	1.7	ug/L	Y	J	J	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2	—	—	1.7	ug/L	Y	J	J	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.86	—	—	1.7	ug/L	Y	J	J	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	2.19	—	—	1.7	ug/L	Y	J	J	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.77	—	—	1.7	ug/L	Y	J	J	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	43.4	—	—	1	ug/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	44.8	—	—	1	ug/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	46.3	—	—	1	ug/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	46.3	—	—	1	ug/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	44.2	—	—	1	ug/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	45.5	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	22.7	—	—	15	ug/L	Y	J	J	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	25.9	—	—	15	ug/L	Y	J	J	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	24.1	—	—	15	ug/L	Y	J	J	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	22.9	—	—	15	ug/L	Y	J	J	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	22	—	—	15	ug/L	Y	J	J	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	21.4	—	—	15	ug/L	Y	J	J	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	19.6	—	—	0.05	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.7	—	—	0.05	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.6	—	—	0.05	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0478	1.15	4.08	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.3	0.944	3.23	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.71	2.72	6.31	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.832	2.08	5.77	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.91	1.95	7.33	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.21	1.37	4.52	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.6	—	—	0.067	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.8	—	—	0.067	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.54	—	—	0.067	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.62	—	—	0.067	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.62	—	—	0.067	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.5	—	—	0.067	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.3	—	—	2	ug/L	Y	J	J	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.97	—	—	2	ug/L	Y	J	J	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.39	—	—	2	ug/L	Y	J	J	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.9	—	—	2	ug/L	Y	J	J	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.86	—	—	2	ug/L	Y	J	J	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6	—	—	2	ug/L	Y	J	J	12-1513	CASA-12-21772	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.73	1.22	4.97	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.059	0.971	3.66	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.359	1.64	6.64	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.49	1.45	4.49	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.3	1.77	6.16	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.906	1.08	3.91	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.257	—	—	0.033	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.25	—	—	0.033	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.277	—	—	0.033	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.294	—	—	0.033	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.291	—	—	0.033	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.285	—	—	0.033	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.515	0.712	2.99	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.464	0.765	2.95	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.13	0.847	2.91	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.67	0.6	2.2	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.309	0.455	1.95	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.883	0.644	2.16	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.75	0.907	2.96	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.84	0.968	2.81	—	pCi/L	Y	—	NQ	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.548	0.779	2.75	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.19	0.813	2.44	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.92	0.966	2.94	—	pCi/L	Y	—	NQ	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.86	0.955	2.84	—	pCi/L	Y	—	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	65.6	—	—	0.453	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	63	—	—	0.453	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.9	—	—	0.453	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.9	—	—	0.453	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.6	—	—	0.453	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62.8	—	—	0.453	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.03	—	—	0.11	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.95	—	—	0.11	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.78	—	—	0.11	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.25	—	—	0.11	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.72	—	—	0.11	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.95	—	—	0.11	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.21	—	—	0.165	ug/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.24	—	—	0.165	ug/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.2	—	—	0.165	ug/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.22	—	—	0.165	ug/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.165	ug/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.165	ug/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.74	2.13	7.66	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.08	2.16	7	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.71	2.79	9.41	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.47	3.31	11.4	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.47	3.1	11.2	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.23	2.29	8.28	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.47	—	—	0.017	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.447	—	—	0.085	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.455	—	—	0.017	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.438	—	—	0.017	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.434	—	—	0.017	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.486	—	—	0.017	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.44	—	—	0.05	ug/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.432	—	—	0.05	ug/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.437	—	—	0.05	ug/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.435	—	—	0.05	ug/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.459	—	—	0.05	ug/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.474	—	—	0.05	ug/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00257	0.00574	0.03	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	1.8E-09	0.00748	0.0433	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0148	0.0105	0.0465	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00262	0.00586	0.0297	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00288	0.005	0.0326	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00716	0.0241	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00256	0.00925	0.0577	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0216	0.00916	0.0386	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0445	0.0157	0.0767	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00524	0.00829	0.0338	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00288	0.00763	0.0371	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00358	0.0062	0.0431	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.64	—	—	0.05	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.43	—	—	0.05	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.41	—	—	0.05	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.44	—	—	0.05	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.32	—	—	0.05	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.49	—	—	0.05	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	18.4	14.1	39.4	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	41.9	16.2	28.9	—	pCi/L	Y	UI	R	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-14.3	18.1	67.1	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	44.9	16.6	78.1	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-37.5	22.1	82.2	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.73	14.4	57.6	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	61.9	—	—	0.053	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	59.5	—	—	0.053	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	61.8	—	—	0.053	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	61.8	—	—	0.053	mg/L	Y	—	J-	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	60.8	—	—	0.053	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	60.4	—	—	0.053	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.1	—	—	0.1	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.325	0.973	3.65	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.596	0.88	3.18	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.974	1.87	7.71	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.68	1.6	5.77	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.654	1.49	5.9	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0692	0.897	3.64	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	165	—	—	3.63	uS/cm	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	161	—	—	1	uS/cm	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	160	—	—	3.63	uS/cm	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	179	—	—	1	uS/cm	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	179	—	—	1	uS/cm	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	180	—	—	1	uS/cm	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	101	—	—	1	ug/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	91.7	—	—	1	ug/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	100	—	—	1	ug/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	102	—	—	1	ug/L	Y	E	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	100	—	—	1	ug/L	Y	E	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	100	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.184	0.12	0.489	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.135	0.123	0.498	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.339	0.121	0.393	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0678	0.131	0.463	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.374	0.148	0.476	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.105	0.14	0.489	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.16	—	—	0.133	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.16	—	—	0.133	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.07	—	—	0.133	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.02	—	—	0.133	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.01	—	—	0.133	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.83	—	—	0.133	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	3.4	mg/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	197	—	—	3.4	mg/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0227	—	—	0.017	mg/L	Y	J	J	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	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	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	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	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	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	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	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	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0359	—	—	0.017	mg/L	Y	J	U	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.305	0.704	2.209	—	pCi/L	Y	U	U	2016-400	CASA-16-106237	ARSL
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.702	0.724	2.386	—	pCi/L	Y	U	U	2015-2301	CASA-15-102630	ARSL
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.094	0.692	2.375	—	pCi/L	Y	U	U	2015-601	CASA-15-90306	ARSL
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.554	0.702	2.14	—	pCi/L	Y	U	U	2013-1200	CASA-13-37007	ARSL
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.487	0.685	2.096	—	pCi/L	Y	U	U	2013-1200	CASA-13-36997	ARSL
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.867	0.752	2.244	—	pCi/L	Y	U	UJ	12-1530	CASA-12-21766	ARSL
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.01	—	—	0.067	ug/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.11	—	—	0.067	ug/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.11	—	—	0.067	ug/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.12	—	—	0.067	ug/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	1.1	—	—	0.067	ug/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.15	—	—	0.067	ug/L	Y	—	NQ	12-1513	CASA-12-21772	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.694	0.0421	0.0804	—	pCi/L	Y	—	NQ	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.619	0.0476	0.142	—	pCi/L	Y	—	NQ	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.655	0.0449	0.115	—	pCi/L	Y	—	NQ	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.668	0.0399	0.0478	—	pCi/L	Y	—	NQ	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.718	0.0432	0.0521	—	pCi/L	Y	—	NQ	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.707	0.0522	0.0951	—	pCi/L	Y	—	J	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0122	0.00746	0.0701	—	pCi/L	Y	U	U	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0446	0.0152	0.101	—	pCi/L	Y	U	U	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.032	0.0118	0.0543	—	pCi/L	Y	U	U	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0256	0.00945	0.0279	—	pCi/L	Y	U	U	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0217	0.00931	0.0304	—	pCi/L	Y	U	U	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.022	0.0132	0.0614	—	pCi/L	Y	U	U	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.345	0.0295	0.0794	—	pCi/L	Y	—	NQ	2016-395	CASA-16-106237	GELC
R-10 S1	874	09/02/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.348	0.0359	0.132	—	pCi/L	Y	—	NQ	2015-2299	CASA-15-102630	GELC
R-10 S1	874	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.359	0.0336	0.0588	—	pCi/L	Y	—	NQ	2015-599	CASA-15-90306	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.35	0.0288	0.0386	—	pCi/L	Y	—	NQ	2013-1217	CASA-13-37007	GELC
R-10 S1	874	07/17/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.404	0.0323	0.042	—	pCi/L	Y	—	NQ	2013-1217	CASA-13-36997	GELC
R-10 S1	874	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.381	0.0378	0.0483	—	pCi/L	Y	—	J	12-1513	CASA-12-21766	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	12	—	—	1	ug/L	Y	—	NQ	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.1	—	—	1	ug/L	Y	—	NQ	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	11.8	—	—	1	ug/L	Y	—	NQ	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.5	—	—	1	ug/L	Y	—	NQ	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	12.1	—	—	1	ug/L	Y	—	NQ	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.6	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21772	GELC
R-10 S1	874	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.54	—	—	3.3	ug/L	Y	J	J	2016-395	CASA-16-106250	GELC
R-10 S1	874	09/02/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.73	—	—	3.3	ug/L	Y	J	J	2015-2299	CASA-15-102644	GELC
R-10 S1	874	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.51	—	—	3.3	ug/L	Y	J	J	2015-600	CASA-15-90309	GELC
R-10 S1	874	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.2	—	—	3.3	ug/L	Y	J	J	2013-1217	CASA-13-37015	GELC
R-10 S1	874	07/17/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.33	—	—	3.3	ug/L	Y	J	J	2013-1217	CASA-13-36998	GELC
R-10 S1	874	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.15	—	—	3.3	ug/L	Y	J	J	12-1513	CASA-12-21772	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	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	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.72	—	—	0.01	SU	Y	H	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.02	—	—	0.01	SU	Y	H	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.02	—	—	0.01	SU	Y	H	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	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	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	87	—	—	0.725	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	87	—	—	0.725	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.6	—	—	0.725	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	89.5	—	—	0.725	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	92.1	—	—	0.725	mg/L	Y	H	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	93.1	—	—	0.725	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	93.8	—	—	0.725	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	92.3	—	—	0.725	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00481	0.00589	0.0472	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0202	0.00743	0.044	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0089	0.0425	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00229	0.00606	0.0441	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10a	690	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0135	0.00698	0.0327	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00847	0.00631	0.0354	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0231	0.00913	0.0396	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.004	0.0387	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.142	—	—	0.017	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0673	—	—	0.017	mg/L	Y	—	U	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0499	—	—	0.017	mg/L	Y	J	U	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.216	—	—	0.017	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0459	—	—	0.017	mg/L	Y	J	U	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.17	—	—	1.7	ug/L	Y	J	J	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	2.53	—	—	1.7	ug/L	Y	J	J	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.52	—	—	1.7	ug/L	Y	J	J	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.35	—	—	1.7	ug/L	Y	J	J	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2	—	—	1.7	ug/L	Y	J	J	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.84	—	—	1.7	ug/L	Y	J	J	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	ug/L	Y	U	U	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	73.6	—	—	1	ug/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	73.8	—	—	1	ug/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	77	—	—	1	ug/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	73.4	—	—	1	ug/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	77	—	—	1	ug/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	78.1	—	—	1	ug/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	77	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	74.6	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(g,h,i)perylene	191-24-2	Y	0.161	—	—	0.156	ug/L	Y	J	J	2016-395	CASA-16-106239	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(g,h,i)perylene	191-24-2	N	0.1	—	—	0.03	ug/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	09/02/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(g,h,i)perylene	191-24-2	N	0.521	—	—	0.156	ug/L	Y	U	U	2015-2300	CASA-15-102632	GELC
R-10a	690	09/02/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Benzo(g,h,i)perylene	191-24-2	N	0.105	—	—	0.0316	ug/L	Y	U	U	2015-2300	CASA-15-102632	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzo(g,h,i)perylene	191-24-2	N	1	—	—	0.3	ug/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(g,h,i)perylene	191-24-2	N	0.0515	—	—	0.0165	ug/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(g,h,i)perylene	191-24-2	N	1.02	—	—	0.306	ug/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	18.6	—	—	15	ug/L	Y	J	J	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	17.2	—	—	15	ug/L	Y	J	J	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	18.4	—	—	15	ug/L	Y	J	J	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	25	—	—	15	ug/L	Y	J	J	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.2	—	—	15	ug/L	Y	J	J	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	17.1	—	—	15	ug/L	Y	J	J	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.107	—	—	0.067	mg/L	Y	J	J	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0822	—	—	0.067	mg/L	Y	J	J	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0998	—	—	0.067	mg/L	Y	J	J	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.115	—	—	0.067	mg/L	Y	J	J	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.104	—	—	0.067	mg/L	Y	J	J	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.111	—	—	0.067	mg/L	Y	J	J	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.118	—	—	0.067	mg/L	Y	J	J	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.115	—	—	0.067	mg/L	Y	J	J	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	27.7	—	—	0.05	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	27.6	—	—	0.05	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	28.9	—	—	0.05	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	27	—	—	0.05	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	26.6	—	—	0.05	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	28.2	—	—	0.05	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	27.8	—	—	0.05	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	26.6	—	—	0.05	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.1	1.69	5.59	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.98	1.41	5.09	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.77	1.69	6.5	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.499	1.09	3.97	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.26	1.66	5.96	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.706	1.32	4.89	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.73	1.82	4.46	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.36	1.54	5.18	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.58	—	—	0.067	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.48	—	—	0.067	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.66	—	—	0.067	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.64	—	—	0.067	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.54	—	—	0.067	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.61	—	—	0.067	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6	—	—	0.067	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	6.01	—	—	0.067	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.72	—	—	2	ug/L	Y	J	J	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.05	—	—	2	ug/L	Y	J	J	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.34	—	—	2	ug/L	Y	J	J	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.55	—	—	2	ug/L	Y	J	J	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.89	—	—	2	ug/L	Y	J	J	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.24	—	—	2	ug/L	Y	J	J	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.19	—	—	2	ug/L	Y	J	J	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	7.85	—	—	2	ug/L	Y	J	J	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.35	1.67	7.43	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.38	1.57	5.6	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.568	1.85	6.02	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.42	1.2	4.28	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.73	1.26	4.32	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.64	1.64	7.01	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.97	0.924	4.65	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.12	1.47	5.14	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.22	—	—	3	ug/L	Y	J	J	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.05	—	—	3	ug/L	Y	J	J	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	ug/L	Y	U	U	12-1513	CASA-12-21761	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dibenz(a,h)anthracene	53-70-3	Y	0.172	—	—	0.156	ug/L	Y	J	J	2016-395	CASA-16-106239	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Dibenz(a,h)anthracene	53-70-3	N	0.1	—	—	0.03	ug/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	09/02/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dibenz(a,h)anthracene	53-70-3	N	0.521	—	—	0.156	ug/L	Y	U	U	2015-2300	CASA-15-102632	GELC
R-10a	690	09/02/15	WG	UF	INIT	REG	SVOC	SW-846:8270DGCMS_SIM	Dibenz(a,h)anthracene	53-70-3	N	0.105	—	—	0.0316	ug/L	Y	U	U	2015-2300	CASA-15-102632	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dibenz(a,h)anthracene	53-70-3	N	1	—	—	0.3	ug/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Dibenz(a,h)anthracene	53-70-3	N	0.0515	—	—	0.0165	ug/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dibenz(a,h)anthracene	53-70-3	N	1.02	—	—	0.306	ug/L	Y	U	U	2013-1223	CASA-13-37009	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.4	—	—	0.033	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.419	—	—	0.033	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.402	—	—	0.033	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.416	—	—	0.033	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.402	—	—	0.033	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.419	—	—	0.033	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.412	—	—	0.033	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.402	—	—	0.033	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	2.59	0.758	1.93	—	pCi/L	Y	—	NQ	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.21	0.597	1.83	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.631	0.794	2.95	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.86	0.931	2.69	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.527	0.788	2.97	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.41	0.878	2.81	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.741	0.625	2.17	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.42	0.751	2.11	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	5.89	0.961	2.61	—	pCi/L	Y	—	NQ	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.19	0.918	2.43	—	pCi/L	Y	—	NQ	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.89	0.864	2.34	—	pCi/L	Y	—	J	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.07	0.464	1.41	—	pCi/L	Y	—	NQ	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.22	0.854	2.29	—	pCi/L	Y	—	NQ	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4	0.96	2.93	—	pCi/L	Y	—	NQ	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.987	0.753	2.55	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.42	0.834	2.46	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84	—	—	0.453	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.6	—	—	0.453	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	88.3	—	—	0.453	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	82.7	—	—	0.453	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.4	—	—	0.453	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	86.2	—	—	0.453	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.1	—	—	0.453	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.7	—	—	0.453	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.74	—	—	0.11	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.69	—	—	0.11	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.92	—	—	0.11	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.7	—	—	0.11	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.62	—	—	0.11	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.82	—	—	0.11	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.82	—	—	0.11	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.69	—	—	0.11	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.942	—	—	0.165	ug/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.932	—	—	0.165	ug/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.924	—	—	0.165	ug/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.957	—	—	0.165	ug/L	Y	—	U	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.165	ug/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.165	ug/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.165	ug/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.165	ug/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.03	3.45	11.2	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.207	2.81	10.2	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10a	690	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.56	3.04	11.5	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.13	2.1	7.16	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.4	2.82	10.3	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.976	2.6	9.36	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.2	2.54	8.59	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.195	2.62	9.47	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	13.9	—	—	0.5	ug/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	14.2	—	—	0.5	ug/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	12	—	—	0.5	ug/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.13	—	—	0.5	ug/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.97	—	—	0.5	ug/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.35	—	—	0.5	ug/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	7.03	—	—	0.5	ug/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.82	—	—	0.5	ug/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.23	—	—	0.085	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.36	—	—	0.085	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.32	—	—	0.085	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.22	—	—	0.017	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.23	—	—	0.017	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.17	—	—	0.017	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.2	—	—	0.085	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.21	—	—	0.085	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.786	—	—	0.05	ug/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.789	—	—	0.05	ug/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.837	—	—	0.05	ug/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.788	—	—	0.05	ug/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.758	—	—	0.05	ug/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.764	—	—	0.05	ug/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.777	—	—	0.05	ug/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.832	—	—	0.05	ug/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0197	0.00849	0.0441	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00748	0.00899	0.0502	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00411	0.00504	0.0241	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0246	0.0129	0.0554	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	6.53E-10	0.0048	0.0246	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00672	0.0311	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00367	0.00636	0.0247	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00337	0.00583	0.0227	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00657	0.00657	0.0388	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00249	0.0103	0.0442	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00411	0.00872	0.0462	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00409	0.0147	0.0694	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0117	0.00619	0.0405	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00823	0.00614	0.0353	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00735	0.00735	0.0443	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00673	0.00673	0.0406	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3	—	—	0.05	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	3.08	—	—	0.05	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.25	—	—	0.05	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.08	—	—	0.05	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.01	—	—	0.05	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.07	—	—	0.05	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.12	—	—	0.05	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.97	—	—	0.05	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-3.39	19	74.4	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27	15.8	72.7	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	35.2	18.9	83.9	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.79	23.8	41	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	28.4	22.4	59	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.2	17.3	68.1	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.16	17.1	66.1	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	34.7	16.7	72.5	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.85	—	—	1.5	ug/L	Y	J	J	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Selenium	Se	Y	1.53	—	—	1.5	ug/L	Y	J	J	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2013-1223	CASA-13-37017	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	55.7	—	—	0.053	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	55.6	—	—	0.053	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	59.6	—	—	0.053	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	53.3	—	—	0.053	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	54.7	—	—	0.053	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.5	—	—	0.053	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	54.9	—	—	0.053	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	52.7	—	—	0.053	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.7	—	—	0.1	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.4	—	—	0.1	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	13	—	—	0.1	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.5	—	—	0.1	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.887	1.43	5.89	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.06	1.99	7.82	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.02	1.48	6.45	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.1	1.09	4.25	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.03	1.59	5.24	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.69	1.49	5.62	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.161	1.15	4.49	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.62	1.35	4.53	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	3.63	uS/cm	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	236	—	—	3.63	uS/cm	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	216	—	—	3.63	uS/cm	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	216	—	—	3.63	uS/cm	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	211	—	—	3.63	uS/cm	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	233	—	—	1	uS/cm	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	237	—	—	1	uS/cm	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	1.73	—	—	1	uS/cm	Y	—	NQ	12-1513	CASA-12-21761	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	184	—	—	1	ug/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	181	—	—	1	ug/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	191	—	—	1	ug/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	167	—	—	1	ug/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	188	—	—	1	ug/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	196	—	—	1	ug/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	195	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	187	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.268	0.113	0.476	—	pCi/L	Y	U	U	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.227	0.145	0.48	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.107	0.126	0.488	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.063	0.114	0.433	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.327	0.113	0.367	—	pCi/L	Y	U	U	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0256	0.0994	0.338	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00657	0.13	0.497	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0343	0.131	0.484	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.6	—	—	0.133	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.6	—	—	0.133	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.9	—	—	0.133	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.6	—	—	0.133	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.6	—	—	0.133	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.6	—	—	0.133	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.72	—	—	0.133	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.68	—	—	0.133	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	147	—	—	3.4	mg/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	189	—	—	3.4	mg/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	174	—	—	3.4	mg/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	196	—	—	3.4	mg/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	169	—	—	3.4	mg/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	166	—	—	3.4	mg/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	166	—	—	3.4	mg/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	156	—	—	3.4	mg/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.375	—	—	0.33	mg/L	Y	J	J	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.37	—	—	0.33	mg/L	Y	J	J	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.359	—	—	0.33	mg/L	Y	J	J	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	UJ	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.733	—	—	0.33	mg/L	Y	J	J-	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.597	—	—	0.33	mg/L	Y	J	J	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.565	—	—	0.33	mg/L	Y	J	J	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.584	—	—	0.33	mg/L	Y	J	J	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.436	0.564	1.877	—	pCi/L	Y	U	U	2016-1239	CASA-16-115478	ARSL
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.379	0.619	1.889	—	pCi/L	Y	U	U	2016-1239	CASA-16-115475	ARSL
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.636	0.64	2.11	—	pCi/L	Y	U	U	2016-400	CASA-16-106239	ARSL
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.084	0.703	2.386	—	pCi/L	Y	U	U	2015-1307	CASA-15-95817	ARSL
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.33	0.656	2.207	—	pCi/L	Y	U	U	2015-601	CASA-15-90308	ARSL
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.304	0.707	2.221	—	pCi/L	Y	U	U	2013-1324	CASA-13-37009	ARSL
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.479	0.661	2.201	—	pCi/L	Y	U	UJ	12-1530	CASA-12-21768	ARSL
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.084	0.635	2.157	—	pCi/L	Y	U	UJ	12-1530	CASA-12-21760	ARSL
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.16	—	—	0.067	ug/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	2.13	—	—	0.067	ug/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.81	—	—	0.067	ug/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.86	—	—	0.067	ug/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.05	—	—	0.067	ug/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.08	—	—	0.067	ug/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	2.14	—	—	0.067	ug/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	2.06	—	—	0.067	ug/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.1	0.0559	0.103	—	pCi/L	Y	—	NQ	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.1	0.0575	0.11	—	pCi/L	Y	—	NQ	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.05	0.0545	0.0893	—	pCi/L	Y	—	NQ	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.09	0.0693	0.107	—	pCi/L	Y	—	NQ	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.07	0.0445	0.0713	—	pCi/L	Y	—	NQ	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.14	0.0581	0.0609	—	pCi/L	Y	—	NQ	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.11	0.0585	0.0786	—	pCi/L	Y	—	NQ	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.954	0.0746	0.126	—	pCi/L	Y	—	NQ	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0998	0.019	0.0706	—	pCi/L	Y	—	NQ	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0609	0.0167	0.0754	—	pCi/L	Y	U	U	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0372	0.0122	0.0779	—	pCi/L	Y	U	U	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00751	0.0162	0.0684	—	pCi/L	Y	U	U	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0464	0.0119	0.0337	—	pCi/L	Y	—	NQ	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0145	0.0103	0.0356	—	pCi/L	Y	U	U	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0364	0.0126	0.0508	—	pCi/L	Y	U	U	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0233	0.0185	0.0814	—	pCi/L	Y	U	U	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.697	0.0443	0.067	—	pCi/L	Y	—	NQ	2016-1215	CASA-16-115475	GELC
R-10a	690	05/16/16	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.625	0.0438	0.0716	—	pCi/L	Y	—	NQ	2016-1215	CASA-16-115478	GELC
R-10a	690	11/23/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.602	0.0407	0.0882	—	pCi/L	Y	—	NQ	2016-395	CASA-16-106239	GELC
R-10a	690	05/22/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.56	0.0496	0.0765	—	pCi/L	Y	—	NQ	2015-1270	CASA-15-95817	GELC
R-10a	690	12/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.584	0.0326	0.0366	—	pCi/L	Y	—	NQ	2015-599	CASA-15-90308	GELC
R-10a	690	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.675	0.0449	0.0491	—	pCi/L	Y	—	NQ	2013-1223	CASA-13-37009	GELC
R-10a	690	08/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.624	0.0431	0.0399	—	pCi/L	Y	—	NQ	12-1513	CASA-12-21768	GELC
R-10a	690	08/22/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.604	0.0542	0.064	—	pCi/L	Y	—	NQ	12-1513	CASA-12-21760	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.06	—	—	1	ug/L	Y	—	NQ	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.55	—	—	1	ug/L	Y	—	NQ	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	8.19	—	—	1	ug/L	Y	—	NQ	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.91	—	—	1	ug/L	Y	—	NQ	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.76	—	—	1	ug/L	Y	—	NQ	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.48	—	—	1	ug/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.2	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.99	—	—	1	ug/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-10a	690	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.82	—	—	3.3	ug/L	Y	J	J	2016-1215	CASA-16-115487	GELC
R-10a	690	05/16/16	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.9	—	—	3.3	ug/L	Y	J	J	2016-1215	CASA-16-115476	GELC
R-10a	690	11/23/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.02	—	—	3.3	ug/L	Y	J	J	2016-395	CASA-16-106252	GELC
R-10a	690	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-1270	CASA-15-95826	GELC
R-10a	690	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	7.9	—	—	3.3	ug/L	Y	J	J	2015-600	CASA-15-90478	GELC
R-10a	690	07/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.2	—	—	3.3	ug/L	Y	—	NQ	2013-1223	CASA-13-37017	GELC
R-10a	690	08/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	11.3	—	—	3.3	ug/L	Y	—	NQ	12-1513	CASA-12-21774	GELC
R-10a	690	08/22/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.9	—	—	3.3	ug/L	Y	—	NQ	12-1513	CASA-12-21761	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.43	—	—	0.01	SU	Y	H	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.27	—	—	0.01	SU	Y	H	NQ	2015-2310	CAMO-15-102606	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.16	—	—	0.01	SU	Y	H	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	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	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.21	—	—	0.01	SU	Y	H	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.26	—	—	0.01	SU	Y	H	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.1	—	—	0.725	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.5	—	—	0.725	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.6	—	—	0.725	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.2	—	—	0.725	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71	—	—	0.725	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.4	—	—	0.725	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.4	—	—	0.725	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.5	—	—	0.725	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.5	—	—	0.725	mg/L	Y	H	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00301	0.00902	0.0505	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00192	0.00577	0.0309	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00209	0.00811	0.0354	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00994	0.00526	0.0336	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00622	0.00762	0.039	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0095	0.00672	0.0326	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00264	0.00699	0.0362	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0994	—	—	0.017	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0922	—	—	0.017	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0883	—	—	0.017	mg/L	Y	—	U	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0659	—	—	0.017	mg/L	Y	—	U	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.163	—	—	0.017	mg/L	Y	—	U	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.102	—	—	0.017	mg/L	Y	—	U	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.13	—	—	0.017	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.383	—	—	0.017	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	23.9	—	—	1	ug/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	25.5	—	—	1	ug/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	25.5	—	—	1	ug/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.2	—	—	1	ug/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.4	—	—	1	ug/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.5	—	—	1	ug/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	24	—	—	1	ug/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.4	—	—	1	ug/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.8	—	—	1	ug/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	20.6	—	—	15	ug/L	Y	J	J	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	18.9	—	—	15	ug/L	Y	J	J	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	17.9	—	—	15	ug/L	Y	J	J	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	16.8	—	—	15	ug/L	Y	J	J	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	18.3	—	—	15	ug/L	Y	J	J	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	17.2	—	—	15	ug/L	Y	J	J	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	16.6	—	—	15	ug/L	Y	J	J	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	16.5	—	—	15	ug/L	Y	J	J	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.9	—	—	0.05	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	16.4	—	—	0.05	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	16.6	—	—	0.05	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.8	—	—	0.05	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	16	—	—	0.05	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	16.1	—	—	0.05	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.7	—	—	0.05	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.6	—	—	0.05	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.8	—	—	0.05	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.5	1.57	5.66	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0214	1.05	3.83	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.09	2.48	5.47	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.825	1.62	5.68	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.22	1.67	4.81	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.81	1.51	5.86	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.21	1.51	4.9	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.48	—	—	0.067	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.36	—	—	0.067	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.44	—	—	0.067	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.55	—	—	0.067	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.42	—	—	0.067	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.34	—	—	0.067	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.35	—	—	0.067	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.34	—	—	0.067	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.32	—	—	0.067	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.6	—	—	2	ug/L	Y	J	J	2016-1216	CAMO-16-115278	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.49	—	—	2	ug/L	Y	J	J	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.29	—	—	2	ug/L	Y	J	U	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.27	—	—	2	ug/L	Y	J	J	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.25	—	—	2	ug/L	Y	J	J	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.26	—	—	2	ug/L	Y	J	J	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.64	—	—	2	ug/L	Y	J	J	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.53	—	—	2	ug/L	Y	J	J	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.258	1.4	5.46	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.171	1.36	4.39	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.0137	1.39	5.43	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.204	1.65	6.05	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.453	1.08	4.18	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.211	1.6	6.1	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.757	1.23	4.47	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.262	—	—	0.033	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.283	—	—	0.033	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.268	—	—	0.033	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.287	—	—	0.033	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.306	—	—	0.033	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.275	—	—	0.033	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.278	—	—	0.033	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.276	—	—	0.033	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.293	—	—	0.033	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.415	0.633	2.47	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.657	0.514	2.99	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.13	1.01	2.88	—	pCi/L	Y	—	NQ	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.501	0.603	2.8	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.656	0.519	2.65	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.418	0.282	2.22	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.22	0.265	1.91	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.964	0.726	2.42	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.83	0.673	2.07	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.21	1.04	2.91	—	pCi/L	Y	—	NQ	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.0872	0.772	2.8	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.58	0.806	1.95	—	pCi/L	Y	—	NQ	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.91	0.88	2.79	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.717	0.689	2.4	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	54.3	—	—	0.453	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	56.7	—	—	0.453	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	57.4	—	—	0.453	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	54.5	—	—	0.453	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	54.8	—	—	0.453	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	54.9	—	—	0.453	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.7	—	—	0.453	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.4	—	—	0.453	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	54.2	—	—	0.453	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.56	—	—	0.11	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.81	—	—	0.11	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.85	—	—	0.11	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.64	—	—	0.11	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.61	—	—	0.11	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.58	—	—	0.11	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.52	—	—	0.11	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.53	—	—	0.11	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.59	—	—	0.11	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.24	—	—	0.165	ug/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.165	ug/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.967	—	—	0.165	ug/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.07	—	—	0.165	ug/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.05	—	—	0.165	ug/L	Y	—	U	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.996	—	—	0.165	ug/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.973	—	—	0.165	ug/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.12	—	—	0.165	ug/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.165	ug/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.11	2.75	9.65	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.66	2.23	8.34	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.5	3.23	11.2	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.866	3.18	11.3	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.69	2.4	8.3	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.63	3.38	11.9	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.1	2.57	9.26	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.532	—	—	0.5	ug/L	Y	J	J	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.59	—	—	0.5	ug/L	Y	J	J	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.63	—	—	0.5	ug/L	Y	J	J	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	ug/L	Y	U	U	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.528	—	—	0.5	ug/L	Y	J	J	2015-881	CAMO-15-92561	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.498	—	—	0.085	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.504	—	—	0.017	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.515	—	—	0.017	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.435	—	—	0.017	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.556	—	—	0.017	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.573	—	—	0.017	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.49	—	—	0.017	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.465	—	—	0.017	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.47	—	—	0.017	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.34	—	—	0.05	ug/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.35	—	—	0.05	ug/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.357	—	—	0.05	ug/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.332	—	—	0.05	ug/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.333	—	—	0.05	ug/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.321	—	—	0.05	ug/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.327	—	—	0.05	ug/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.324	—	—	0.05	ug/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.336	—	—	0.05	ug/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0127	0.00914	0.0523	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00637	0.0404	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00234	0.00523	0.0293	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	7.68E-10	0.00565	0.0289	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00288	0.00498	0.0326	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00248	0.00554	0.0167	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0082	0.00612	0.0184	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	3.38E-09	0.0108	0.0454	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00805	0.00697	0.036	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00234	0.00701	0.0483	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0023	0.0106	0.0477	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0115	0.0371	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00248	0.00429	0.0298	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00273	0.00723	0.0329	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.67	—	—	0.05	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.75	—	—	0.05	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.74	—	—	0.05	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.67	—	—	0.05	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.72	—	—	0.05	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.63	—	—	0.05	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.6	—	—	0.05	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.62	—	—	0.05	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.59	—	—	0.05	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-10.9	15.1	55.4	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.9	12.6	34.3	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.59	17	67.2	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-9.31	18.1	71.2	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-10.9	18.6	71	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.2	18.2	73.6	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-0.54	18	70	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	Y	1.6	—	—	1.5	ug/L	Y	J	J	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2016-766	CAMO-16-110040	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Selenium	Se	N	5	—	—	1.5	ug/L	Y	U	U	2015-1271	CAMO-15-95803	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.2	—	—	0.053	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	74.8	—	—	0.053	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	67.9	—	—	0.053	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.2	—	—	0.053	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.5	—	—	0.053	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.8	—	—	0.053	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.4	—	—	0.053	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71	—	—	0.053	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.96	—	—	0.1	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.141	1.18	4.62	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.05	0.916	4.05	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.458	1.54	5.78	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.94	1.71	5.41	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.95	1.34	3.97	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.29	1.21	4.25	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.993	1.25	4.47	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	150	—	—	3.63	uS/cm	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	172	—	—	1	uS/cm	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	170	—	—	1	uS/cm	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	3.63	uS/cm	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	145	—	—	3.63	uS/cm	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	143	—	—	3.63	uS/cm	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	144	—	—	3.63	uS/cm	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	136	—	—	3.63	uS/cm	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	3.63	uS/cm	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	55.1	—	—	1	ug/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	56.7	—	—	1	ug/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	56	—	—	1	ug/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.5	—	—	1	ug/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	50.3	—	—	1	ug/L	Y	E	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	59.9	—	—	1	ug/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	58.8	—	—	1	ug/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57	—	—	1	ug/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57.9	—	—	1	ug/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0372	0.121	0.495	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0888	0.136	0.489	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.318	0.14	0.488	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.236	0.143	0.53	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.23	0.111	0.409	—	pCi/L	Y	U	U	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.194	0.147	0.498	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.191	0.123	0.486	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.81	—	—	0.133	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.7	—	—	0.133	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.74	—	—	0.133	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.83	—	—	0.133	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.66	—	—	0.133	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.64	—	—	0.133	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.68	—	—	0.133	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.82	—	—	0.133	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.73	—	—	0.133	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130	—	—	3.4	mg/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	167	—	—	3.4	mg/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107	—	—	3.4	mg/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	100	—	—	3.4	mg/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	02/17/16	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.35	—	—	0.33	mg/L	Y	J	J	2016-766	CAMO-16-110022	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	05/22/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	UJ	2015-1271	CAMO-15-95781	GELC
R-34	883.7	03/11/15	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.416	—	—	0.33	mg/L	Y	J	J	2015-881	CAMO-15-92483	GELC
R-34	883.7	03/11/15	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.41	—	—	0.33	mg/L	Y	J	J	2015-881	CAMO-15-92560	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0219	—	—	0.02	mg/L	Y	J	J	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0452	—	—	0.017	mg/L	Y	J	J	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0362	—	—	0.017	mg/L	Y	J	U	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	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	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0384	—	—	0.017	mg/L	Y	J	U	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0608	—	—	0.017	mg/L	Y	—	U	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	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	2015-881	CAMO-15-92561	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.831	0.793	2.404	—	pCi/L	Y	U	U	2016-453	CAMO-16-106103	ARSL
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.478	0.737	2.289	—	pCi/L	Y	U	U	2015-2326	CAMO-15-102582	ARSL
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.121	0.689	2.196	—	pCi/L	Y	U	U	2015-598	CAMO-15-90282	ARSL
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.683	0.707	2.334	—	pCi/L	Y	U	U	2015-598	CAMO-15-90268	ARSL
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.444	0.593	2.044	—	pCi/L	Y	U	U	2013-1325	CAMO-13-37039	ARSL
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.713	0.646	2.117	—	pCi/L	Y	U	UJ	12-1515ARS	CAMO-12-21790	ARSL
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.827	0.665	2.165	—	pCi/L	Y	U	UJ	12-1515ARS	CAMO-12-21779	ARSL
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.564	—	—	0.067	ug/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.486	—	—	0.067	ug/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.499	—	—	0.067	ug/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.517	—	—	0.067	ug/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.451	—	—	0.067	ug/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.491	—	—	0.067	ug/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.487	—	—	0.067	ug/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.496	—	—	0.067	ug/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.475	—	—	0.067	ug/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC

Table C-3 Mortandad and Sandia Watersheds, General Surveillance 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-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.338	0.0321	0.109	—	pCi/L	Y	—	NQ	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.337	0.0341	0.132	—	pCi/L	Y	—	NQ	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.336	0.0283	0.0939	—	pCi/L	Y	—	NQ	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.346	0.0271	0.0793	—	pCi/L	Y	—	NQ	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.357	0.0318	0.0534	—	pCi/L	Y	—	J	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.288	0.0303	0.0713	—	pCi/L	Y	—	NQ	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.352	0.0331	0.0745	—	pCi/L	Y	—	NQ	12-1515	CAMO-12-21779	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0557	0.0156	0.0749	—	pCi/L	Y	U	U	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0498	0.0153	0.0935	—	pCi/L	Y	U	U	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00582	0.00582	0.0445	—	pCi/L	Y	U	U	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00983	0.00777	0.0376	—	pCi/L	Y	U	U	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0413	0.0131	0.0312	—	pCi/L	Y	—	NQ	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0066	0.00809	0.0461	—	pCi/L	Y	U	U	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0345	0.0119	0.0481	—	pCi/L	Y	U	U	12-1515	CAMO-12-21779	GELC
R-34	883.7	11/24/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.194	0.0247	0.094	—	pCi/L	Y	—	NQ	2016-409	CAMO-16-106103	GELC
R-34	883.7	09/03/15	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.192	0.026	0.123	—	pCi/L	Y	—	NQ	2015-2310	CAMO-15-102582	GELC
R-34	883.7	12/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.141	0.0194	0.0482	—	pCi/L	Y	—	NQ	2015-596	CAMO-15-90282	GELC
R-34	883.7	12/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.173	0.0192	0.0407	—	pCi/L	Y	—	NQ	2015-596	CAMO-15-90268	GELC
R-34	883.7	07/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.149	0.0202	0.043	—	pCi/L	Y	—	J	2013-1224	CAMO-13-37039	GELC
R-34	883.7	08/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.184	0.0231	0.0362	—	pCi/L	Y	—	NQ	12-1515	CAMO-12-21790	GELC
R-34	883.7	08/23/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.14	0.022	0.0378	—	pCi/L	Y	—	NQ	12-1515	CAMO-12-21779	GELC
R-34	883.7	05/16/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.21	—	—	1	ug/L	Y	—	NQ	2016-1216	CAMO-16-115278	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.89	—	—	1	ug/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.12	—	—	1	ug/L	Y	—	NQ	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.43	—	—	1	ug/L	Y	—	NQ	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.61	—	—	1	ug/L	Y	—	NQ	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.4	—	—	1	ug/L	Y	—	NQ	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.38	—	—	1	ug/L	Y	—	NQ	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.63	—	—	1	ug/L	Y	—	NQ	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	7.5	—	—	1	ug/L	Y	—	NQ	2015-596	CAMO-15-90270	GELC
R-34	883.7	02/17/16	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	14.5	—	—	3.3	ug/L	Y	—	NQ	2016-766	CAMO-16-110040	GELC
R-34	883.7	11/24/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.59	—	—	3.3	ug/L	Y	J	J	2016-409	CAMO-16-106124	GELC
R-34	883.7	09/03/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-2310	CAMO-15-102606	GELC
R-34	883.7	05/22/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-1271	CAMO-15-95803	GELC
R-34	883.7	03/11/15	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.43	—	—	3.3	ug/L	Y	J	J	2015-881	CAMO-15-92499	GELC
R-34	883.7	03/11/15	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-881	CAMO-15-92561	GELC
R-34	883.7	12/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.32	—	—	3.3	ug/L	Y	J	J	2015-596	CAMO-15-90289	GELC
R-34	883.7	12/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	ug/L	Y	U	U	2015-596	CAMO-15-90270	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 Spring	Vine Tree Spring	—[a]	12/08/2015	LCMS/MS[b] Perchlorate	Perchlorate	ClO4	F[c]	INIT[d]	REG[e]	Y[f]	5.83	0.5	µg/L	10	—	NQ[g]	NQ	Y	SW-846:6850	GELC[h]	4	Consent Order	1.46
Intermediate Spring	Vine Tree Spring	—	06/16/2016	LCMS/MS Perchlorate	Perchlorate	ClO4	F	INIT	REG	Y	5.95	0.5	µg/L	10	—	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.49
Regional	R-4	792.9	05/31/2016	LCMS/MS Perchlorate	Perchlorate	ClO4	F	INIT	REG	Y	3.99	0.25	µg/L	5	—	NQ	NQ	Y	SW-846:6850	GELC	4	Consent Order	1.00
Regional	R-10a	690	11/23/2015	SVOC[i]	Dibenz(a,h)anthracene	53-70-3	UF[j]	INIT	REG	Y	0.172	0.156	µg/L	1	J[k]	J[l]	J_LAB[m]	Y	SW-846:8270D	GELC	0.034	EPA TAP SCRN LVL[n]	5.06

[a] — = None.

[b] LCMS/MS = Liquid chromatography mass spectrometry/mass spectrometry.

[c] F = Filtered.

[d] INIT = Initial.

[e] REG = Regular.

[f] Y = Yes.

[g] NQ = Not qualified.

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

[i] SVOC = Semivolatile organic compound.

[j] UF = Unfiltered.

[k] In this column, J = The associated numerical value is an estimated quantity.

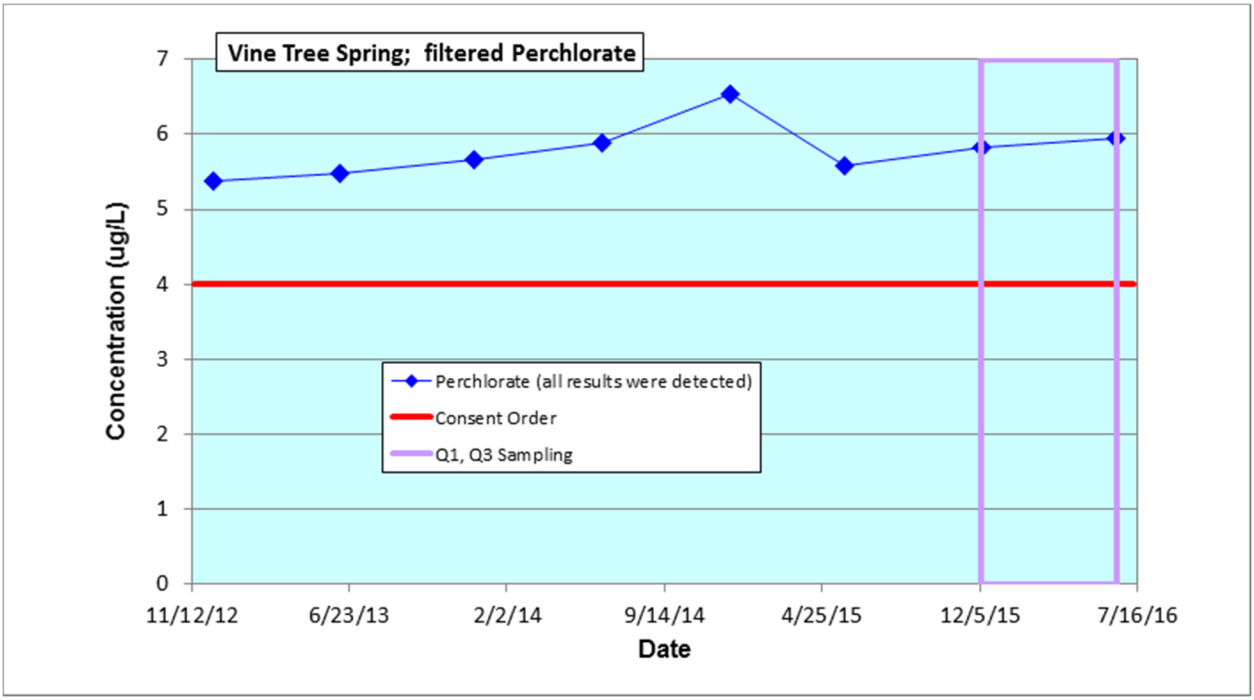
[l] In this column, J = The analyte is classified as detected, but the reported concentration value is expected to be more uncertain than usual.

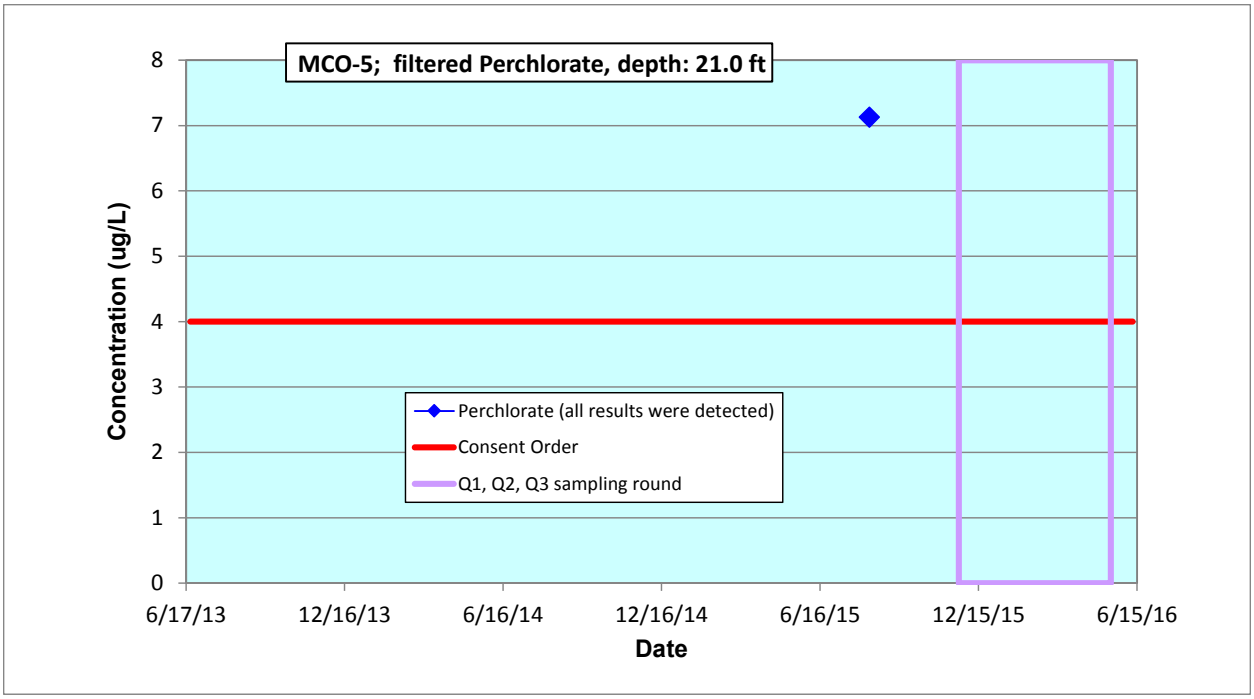
[m] J_LAB = The analytical laboratory qualified the detected result as estimated (J) because the result was less than the practical quantitation limit but greater than the method detection limit.

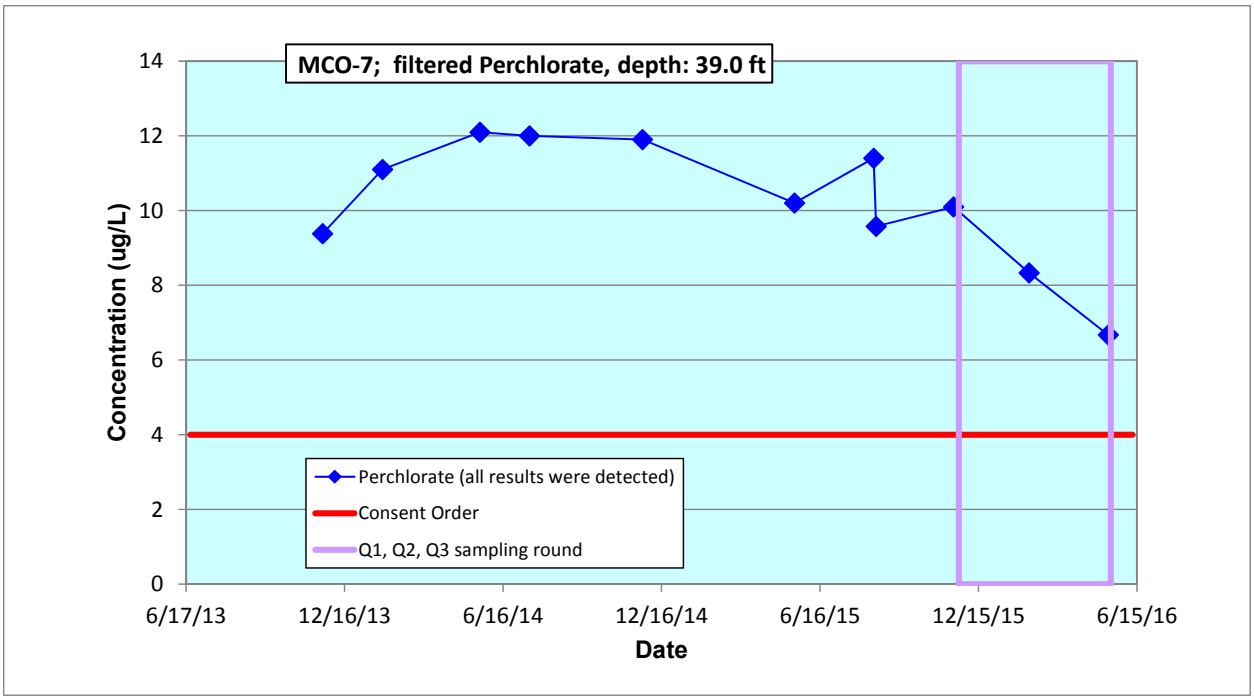
[n] EPA TAP SCRN LVL = U.S. Environmental Protection Agency generic screening level for tap water.

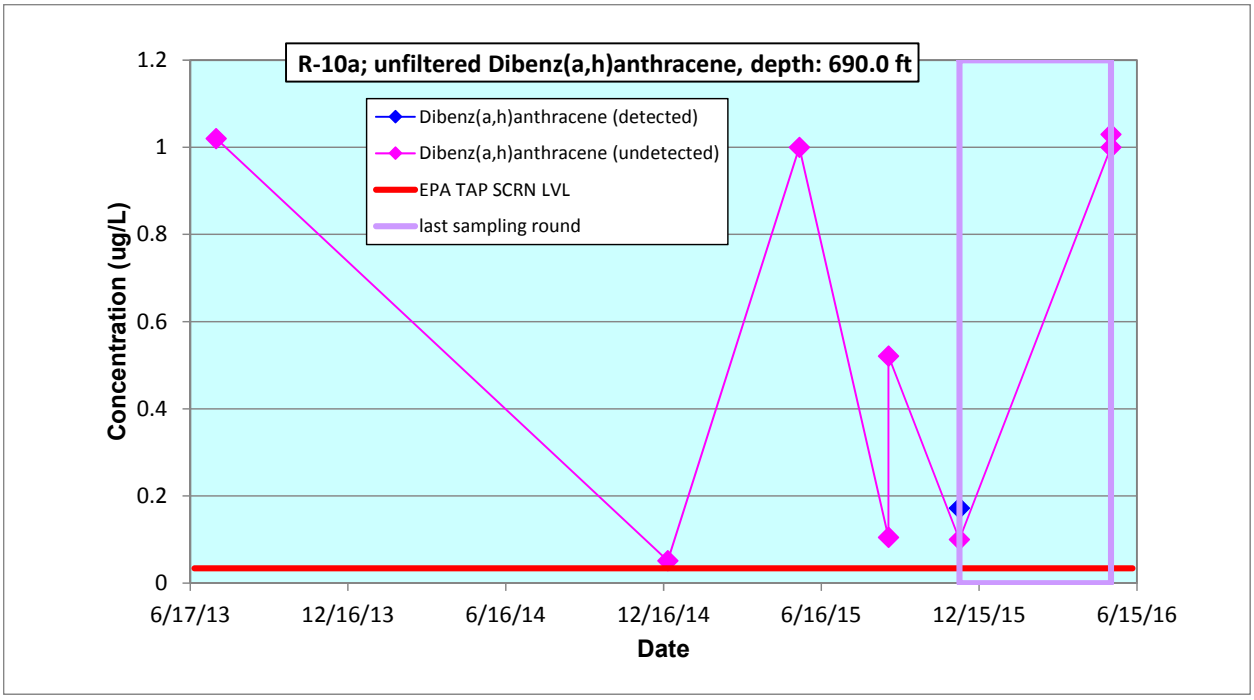
Appendix E

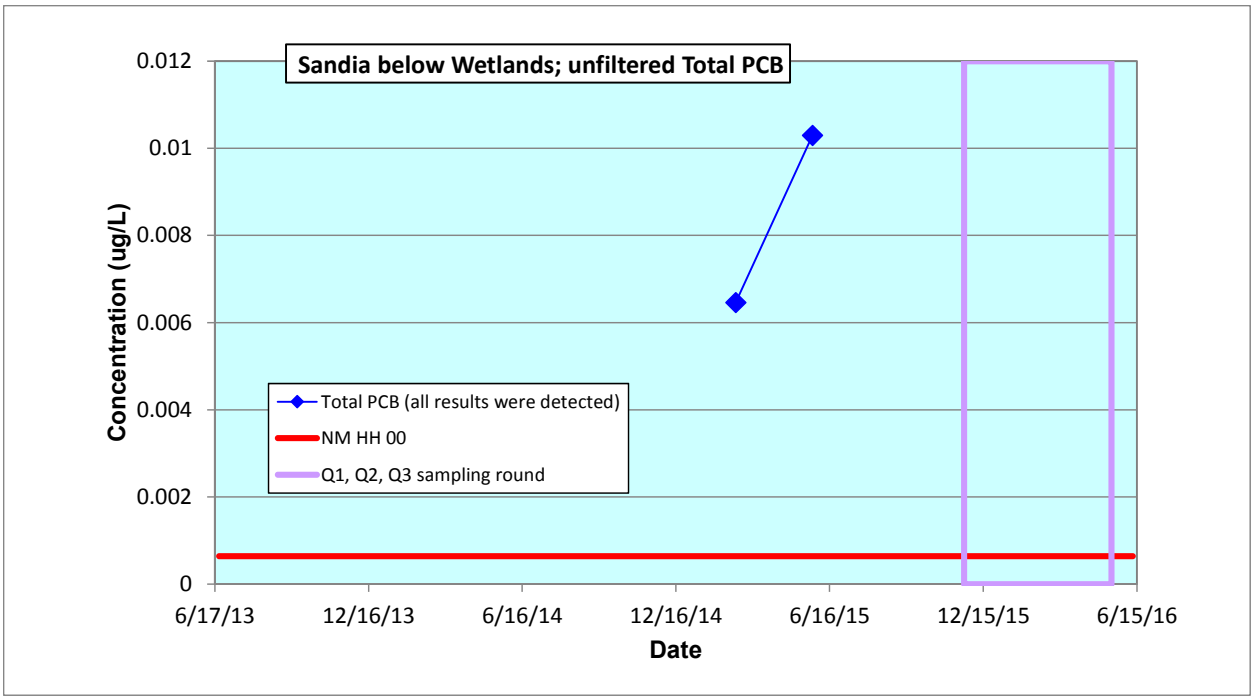
Analytical Chemistry Graphs of Screening-Level Exceedances

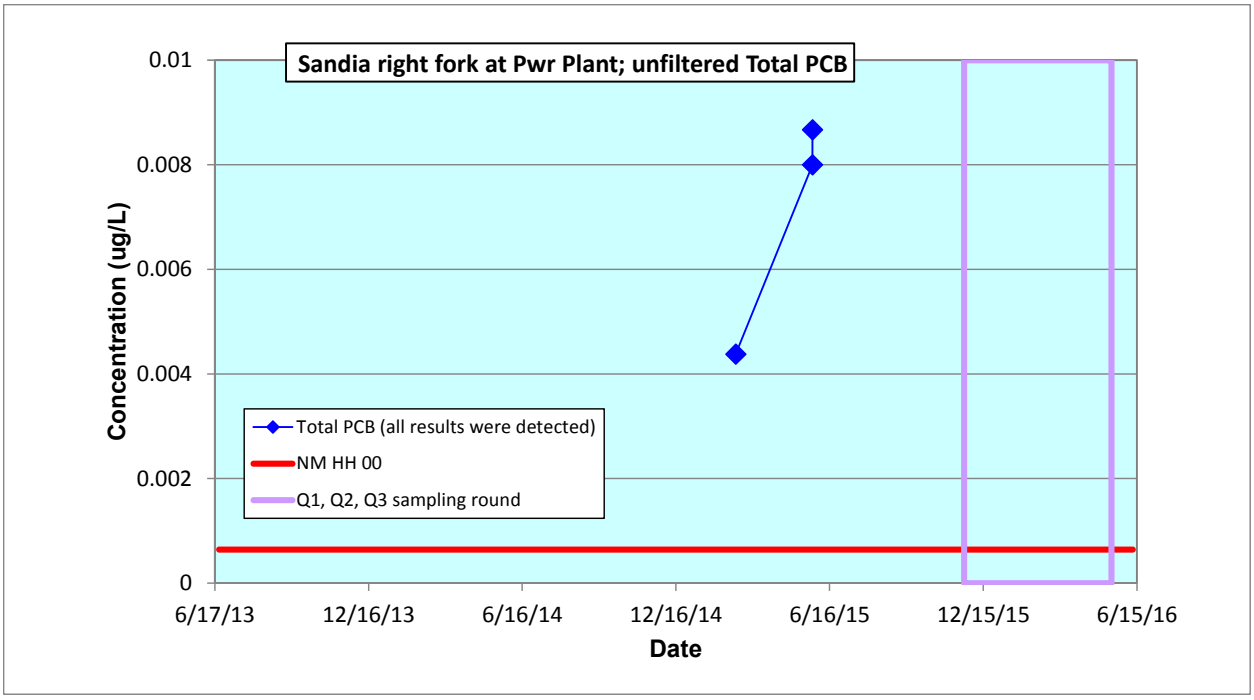

Vine Tree Spring; filtered Perchlorate
Concentration (ug/L)
0
1
2
3
4
5
6
7
11/12/12
6/23/13
2/2/14
9/14/14
4/25/15
12/5/15
7/16/16
Date
Perchlorate (all results were detected)
Consent Order
Q1, Q3 Sampling


MCO-5; filtered Perchlorate, depth: 21.0 ft
Concentration (ug/L)
0
1
2
3
4
5
6
7
8
6/17/13
12/16/13
6/16/14
12/16/14
6/16/15
12/15/15
6/15/16
Date
Perchlorate (all results were detected)
Consent Order
Q1, Q2, Q3 sampling round


MCO-7; filtered Perchlorate, depth: 39.0 ft
Concentration (ug/L)
14
12
10
8
6
4
2
0
6/17/13
12/16/13
6/16/14
12/16/14
6/16/15
12/15/15
6/15/16
Date
Perchlorate (all results were detected)
Consent Order
Q1, Q2, Q3 sampling round


R-10a; unfiltered Dibenz(a,h)anthracene, depth: 690.0 ft
Concentration (ug/L)
1.2
1
0.8
0.6
0.4
0.2
0
6/17/13
12/16/13
6/16/14
12/16/14
6/16/15
12/15/15
6/15/16
Date
Dibenz(a,h)anthracene (detected)
Dibenz(a,h)anthracene (undetected)
EPA TAP SCRN LVL
last sampling round


Sandia below Wetlands; unfiltered Total PCB
0.012
0.01
0.008
0.006
0.004
0.002
0
Concentration (ug/L)
Total PCB (all results were detected)
NM HH 00
Q1, Q2, Q3 sampling round
6/17/13
12/16/13
6/16/14
12/16/14
6/16/15
12/15/15
6/15/16
Date


Sandia right fork at Pwr Plant; unfiltered Total PCB
0.01
0.008
0.006
0.004
0.002
0
Concentration (ug/L)
Total PCB (all results were detected)
NM HH 00
Q1, Q2, Q3 sampling round
6/17/13
12/16/13
6/16/14
12/16/14
6/16/15
12/15/15
6/15/16
Date

Appendix F

Analytical Reports
(on CD included with this document)

Table F-1
Los Alamos and Pueblo Watersheds,
General Surveillance Monitoring Group DVD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2016-1292	Inorganic	GELC[a]	CAPU-16-116870	05/31/2016	R-4	792.9	816
2016-1292	Inorganic	GELC	CAPU-16-116878	05/31/2016	R-4	792.9	816
2016-1292	Organic	GELC	CAPU-16-116870	05/31/2016	R-4	792.9	816
2016-1292	RAD[b]	GELC	CAPU-16-116870	05/31/2016	R-4	792.9	816
2016-1293	Inorganic	GELC	CAPU-16-116873	05/31/2016	POI-4	159	174
2016-1293	Inorganic	GELC	CAPU-16-116874	05/31/2016	R-2	906.4	929.6
2016-1293	Inorganic	GELC	CAPU-16-116865	05/31/2016	POI-4	159	174
2016-1293	Inorganic	GELC	CAPU-16-116866	05/31/2016	R-2	906.4	929.6
2016-1293	Organic	GELC	CAPU-16-116865	05/31/2016	POI-4	159	174
2016-1293	Organic	GELC	CAPU-16-116866	05/31/2016	R-2	906.4	929.6
2016-1293	RAD	GELC	CAPU-16-116865	05/31/2016	POI-4	159	174
2016-1293	RAD	GELC	CAPU-16-116866	05/31/2016	R-2	906.4	929.6
2016-1296	Inorganic	GELC	CAPU-16-116871	06/01/2016	TW-2Ar	102	112
2016-1296	Inorganic	GELC	CAPU-16-116854	06/01/2016	TW-2Ar	102	112
2016-1296	Inorganic	GELC	CAPU-16-116855	06/01/2016	TW-2Ar	102	112
2016-1296	Inorganic	GELC	CAPU-16-116879	06/01/2016	TW-2Ar	102	112
2016-1296	Organic	GELC	CAPU-16-116854	06/01/2016	TW-2Ar	102	112
2016-1296	Organic	GELC	CAPU-16-116871	06/01/2016	TW-2Ar	102	112
2016-1296	RAD	GELC	CAPU-16-116871	06/01/2016	TW-2Ar	102	112
2016-1296	RAD	GELC	CAPU-16-116854	06/01/2016	TW-2Ar	102	112
2016-1301	RAD	ARSL	CAPU-16-116870	05/31/2016	R-4	792.9	816
2016-1311	Inorganic	GELC	CAPU-16-116877	06/02/2016	R-3i	215.2	220
2016-1311	Inorganic	GELC	CAPU-16-116869	06/02/2016	R-3i	215.2	220
2016-1311	Organic	GELC	CAPU-16-116869	06/02/2016	R-3i	215.2	220
2016-1316	RAD	GELC	CAPU-16-116869	06/02/2016	R-3i	215.2	220
2016-1324	Inorganic	GELC	CAPU-16-116876	06/06/2016	R-3	974.5	995
2016-1324	Inorganic	GELC	CAPU-16-116868	06/06/2016	R-3	974.5	995
2016-1324	Organic	GELC	CAPU-16-116868	06/06/2016	R-3	974.5	995
2016-1324	RAD	GELC	CAPU-16-116868	06/06/2016	R-3	974.5	995
2016-1325	Inorganic	GELC	CAPU-16-116867	06/06/2016	R-24	825	848
2016-1325	Inorganic	GELC	CAPU-16-116875	06/06/2016	R-24	825	848
2016-1325	Organic	GELC	CAPU-16-116867	06/06/2016	R-24	825	848
2016-1325	RAD	GELC	CAPU-16-116867	06/06/2016	R-24	825	848
2016-1335	Inorganic	GELC	CALA-16-116841	06/07/2016	LAO-3a	4.7	14.7

Table F-1 (continued)

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2016-1335	Inorganic	GELC	CALA-16-116847	06/07/2016	LAO-3a	4.7	14.7
2016-1335	Organic	GELC	CALA-16-116841	06/07/2016	LAO-3a	4.7	14.7
2016-1335	RAD	GELC	CALA-16-116841	06/07/2016	LAO-3a	4.7	14.7
2016-1356	Inorganic	GELC	CAPU-16-116864	06/08/2016	PAO-5n	7.43	12.43
2016-1356	Inorganic	GELC	CAPU-16-116872	06/08/2016	PAO-5n	7.43	12.43
2016-1356	Organic	GELC	CAPU-16-116864	06/08/2016	PAO-5n	7.43	12.43
2016-1356	RAD	GELC	CAPU-16-116864	06/08/2016	PAO-5n	7.43	12.43
2016-1364	RAD	ARSL	CAPU-16-116867	06/06/2016	R-24	825	848
2016-1411	Inorganic	GELC	CALA-16-116843	06/16/2016	LLAO-4	5.24	15.24
2016-1411	Inorganic	GELC	CALA-16-116845	06/16/2016	Vine Tree Spring	—[c]	—
2016-1411	Inorganic	GELC	CALA-16-116849	06/16/2016	LLAO-4	5.24	15.24
2016-1411	Inorganic	GELC	CALA-16-116851	06/16/2016	Vine Tree Spring	—	—
2016-1411	Organic	GELC	CALA-16-116843	06/16/2016	LLAO-4	5.24	15.24
2016-1411	Organic	GELC	CALA-16-116845	06/16/2016	Vine Tree Spring	—	—
2016-1411	RAD	GELC	CALA-16-116843	06/16/2016	LLAO-4	5.24	15.24
2016-1411	RAD	GELC	CALA-16-116845	06/16/2016	Vine Tree Spring	—	—
2016-1473	RAD	ARSL[d]	CALA-16-116845	06/16/2016	Vine Tree Spring	—	—
2016-474	Inorganic	GELC	CALA-16-106806	12/08/2015	Vine Tree Spring	—	—
2016-474	Inorganic	GELC	CALA-16-106814	12/08/2015	Vine Tree Spring	—	—
2016-474	Organic	GELC	CALA-16-106806	12/08/2015	Vine Tree Spring	—	—

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

[b] Rad = Radiochemistry (not gamma).

[c] — = Not applicable.

[d] ARSL = American Radiation Services, Inc.

Table F-2
Mortandad and Sandia Watersheds,
General Surveillance Monitoring Group DVD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-781	Inorganic	EES6[a]	CASA-15-92722	02/10/2015	Sandia below Wetlands	—	—
2015-781	Inorganic	EES6	CASA-15-92726	02/10/2015	Sandia below Wetlands	—	—
2015-781	Inorganic	EES6	CASA-15-92727	02/10/2015	Sandia right fork at Pwr Plant	—	—
2016-1212	Inorganic	GELC[b]	CAMO-16-116067	05/13/2016	MCO-7	39	69
2016-1215	Inorganic	GELC	CASA-16-115478	05/16/2016	R-10a	690	700
2016-1215	Inorganic	GELC	CASA-16-115487	05/16/2016	R-10a	690	700
2016-1215	Inorganic	GELC	CASA-16-115475	05/16/2016	R-10a	690	700
2016-1215	Inorganic	GELC	CASA-16-115476	05/16/2016	R-10a	690	700
2016-1215	Organic	GELC	CASA-16-115478	05/16/2016	R-10a	690	700
2016-1215	Organic	GELC	CASA-16-115475	05/16/2016	R-10a	690	700
2016-1215	RAD[c]	GELC	CASA-16-115478	05/16/2016	R-10a	690	700
2016-1215	RAD	GELC	CASA-16-115475	05/16/2016	R-10a	690	700
2016-1216	Inorganic	GELC	CAMO-16-115278	05/16/2016	R-34	883.7	906.6
2016-1216	Inorganic	GELC	CAMO-16-115255	05/16/2016	R-34	883.7	906.6
2016-1239	RAD	ARSL[d]	CASA-16-115478	05/16/2016	R-10a	690	700
2016-1239	RAD	ARSL	CASA-16-115475	05/16/2016	R-10a	690	700
2016-363	Inorganic	GELC	CAMO-16-106412	11/17/2015	MCO-7	39	69
2016-395	Inorganic	GELC	CASA-16-106237	11/23/2015	R-10 S1	874	897
2016-395	Inorganic	GELC	CASA-16-106250	11/23/2015	R-10 S1	874	897
2016-395	Inorganic	GELC	CASA-16-106252	11/23/2015	R-10a	690	700
2016-395	Inorganic	GELC	CASA-16-106239	11/23/2015	R-10a	690	700
2016-395	Organic	GELC	CASA-16-106237	11/23/2015	R-10 S1	874	897
2016-395	Organic	GELC	CASA-16-106239	11/23/2015	R-10a	690	700
2016-395	RAD	GELC	CASA-16-106237	11/23/2015	R-10 S1	874	897
2016-395	RAD	GELC	CASA-16-106239	11/23/2015	R-10a	690	700
2016-400	RAD	ARSL	CASA-16-106239	11/23/2015	R-10a	690	700
2016-400	RAD	ARSL	CASA-16-106237	11/23/2015	R-10 S1	874	897
2016-409	Inorganic	GELC	CAMO-16-106124	11/24/2015	R-34	883.7	906.6
2016-409	Inorganic	GELC	CAMO-16-106103	11/24/2015	R-34	883.7	906.6
2016-409	Organic	GELC	CAMO-16-106103	11/24/2015	R-34	883.7	906.6
2016-409	RAD	GELC	CAMO-16-106103	11/24/2015	R-34	883.7	906.6
2016-453	RAD	ARSL	CAMO-16-106103	11/24/2015	R-34	883.7	906.6

Table F-2 (continued)

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2016-749	Inorganic	GELC	CAMO-16-110081	02/12/2016	MCO-7	39	69
2016-766	Inorganic	GELC	CAMO-16-110022	02/17/2016	R-34	883.7	906.6
2016-766	Inorganic	GELC	CAMO-16-110040	02/17/2016	R-34	883.7	906.6

[a] EES6 = Hydrology, Geochemistry, and Geology Group (Los Alamos National Laboratory).

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

[c] Rad = Radiochemistry (not gamma).

[d] ARSL = American Radiation Services, Inc.