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Periodic Monitoring Report for Pajarito Watershed General Surveillance Monitoring Group, April 8–April 25, 2013



Prepared by the Environmental Programs Directorate

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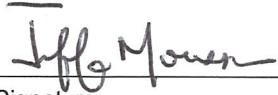
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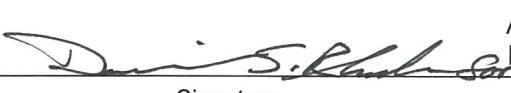
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EXECUTIVE SUMMARY

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

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

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

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

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

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Acronyms and Abbreviations

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

1.0 INTRODUCTION

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

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

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

This report presents the following information:

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

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

1.1 Background

Most of the monitoring wells discussed in the 2013 IFGMP (LANL 2012, 225493) are assigned to area-specific monitoring groups related to project areas that may be located in more than one watershed. Locations that are not included within one of these six area-specific monitoring groups are assigned to the General Surveillance monitoring group. This PMR presents results from the Pajarito watershed portion of the General Surveillance monitoring group.

Pajarito Canyon has a drainage that extends into the Sierra de los Valles, west of the Laboratory. Saturated alluvium occurs in lower Pajarito Canyon near the eastern Laboratory boundary but does not extend beyond the boundary. In the past, the Laboratory released small amounts of wastewater into tributaries of Pajarito Canyon from several high explosives- (HE-) processing sites at Technical Area 09

(TA-09). Some firing sites border portions of tributaries Twomile and Threemile Canyons. A nuclear materials experimental facility occupied the floor of Pajarito Canyon at TA-18. Waste management areas at TA-54, used for disposal of organic chemicals and low-level radioactive waste, occupy the mesa north of the lower part of the canyon. A small contaminated area of shallow intermediate groundwater occurs behind a former Laboratory warehouse location at TA-03. The main groundwater impacts are from organic chemicals and from HE.

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

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

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

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

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

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

2.0 SCOPE OF ACTIVITIES

The PME for the Pajarito Watershed General Surveillance monitoring group was conducted pursuant to the 2013 IFGMP (LANL 2012, 225493).

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

3.0 MONITORING RESULTS

3.1 Methods and Procedures

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

3.2 Field Parameter Results

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

3.3 Groundwater Elevations and Base-Flow Observations

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

3.4 Deviations from Planned Scope

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

4.0 ANALYTICAL DATA RESULTS

4.1 Methods and Procedures

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

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

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

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

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

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

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

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

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

4.2 Analytical Data

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

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

- All data
 - ❖ Data that are R-qualified (rejected because of noncompliance regarding QC acceptance criteria) during independent validation are considered unusable but are still reported.
 - ❖ Analytical laboratory QC results, including matrix spike and matrix spike duplicates, and field blanks, trip blanks, and equipment blanks are not included in the data set.
 - ❖ Field duplicates, reanalyses, and results from different analytical methods are reported.

- Radionuclides
 - ❖ Only cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22 are reported (or analyzed) for the gamma spectroscopy suite.
 - ❖ Americium-241 and uranium-235 are reported only by chemical separation alpha spectroscopy. No gamma spectroscopy results are presented for these analytes.
 - ❖ Otherwise, all results are reported at all locations.
- Nonradionuclides
 - ❖ All detected results are reported.

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

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

- The base-flow monitoring locations are assigned to one of two screening categories—perennial or ephemeral (Table 4.2-2). 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 (Table 4.2-2). Hardness-dependent acute and chronic criteria were used for total aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 New Mexico Administrative Code (NMAC) 6.4.
- Surface-water and groundwater perchlorate data were compared with the screening level of 4 µg/L established in Section VIII.A.1.a of the Consent Order.
- Other groundwater data are screened to Groundwater Cleanup Levels described in Section VIII.A.1 of the Consent Order; for an individual substance, the lesser of the EPA MCL or the NMWQCC groundwater standard is used.
- If an NMWQCC standard or an MCL has not been established for a specific substance for which toxicological information is published, the EPA Regional Screening Levels for Tap Water (formerly Region 6 Screening Levels for Tap Water) are used as the Groundwater Cleanup Level. These screening levels are for either a cancer- or noncancer-risk type. The Consent Order specifies screening at a 10^{-5} excess cancer risk. The EPA screening levels are for 10^{-6} excess cancer risk, so 10 times the EPA 10^{-6} screening levels are used for screening.
- The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants. EPA MCLs are applied to both filtered and unfiltered sample results.
- The analytical results for radioactivity are compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Guides (DCGs) for groundwater.

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

Table 4.2-3 provides groundwater analytical results (by hydrogeologic zone for a specific analytical suite) that are above screening levels. Multiple detections of a particular constituent at a location are counted as one result. For example, if aluminum is detected above a screening level in both a primary sample and a field duplicate, only the highest result is shown.

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

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

4.2.1 Surface Water (Base Flow)

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

4.2.2 Groundwater

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

For the current PME, the filtered iron result of 1520 µg/L at intermediate well 03-B-13 was above the 1000-µg/L NMWQCC groundwater standard screening level (applicable to domestic water supply). Previous iron concentrations range between 94.7 µg/L and 21,300 µg/L.

4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the Pajarito Watershed General Surveillance monitoring group are proposed at this time.

5.0 SUMMARY AND INTERPRETATIONS

5.1 Monitoring Results

The field parameter monitoring results are presented in Appendix A.

5.2 Analytical Results

5.2.1 Surface Water (Base Flow)

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

5.2.2 Groundwater

No groundwater results from previous sampling of PME monitoring locations reported in this PMR were above screening levels. One result from groundwater samples collected during this PME was above screening levels (Table 4.2-3).

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

5.3 Data Gaps

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

5.4 Remediation System Monitoring

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

6.0 REFERENCES

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

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

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

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

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

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

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

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

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

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

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

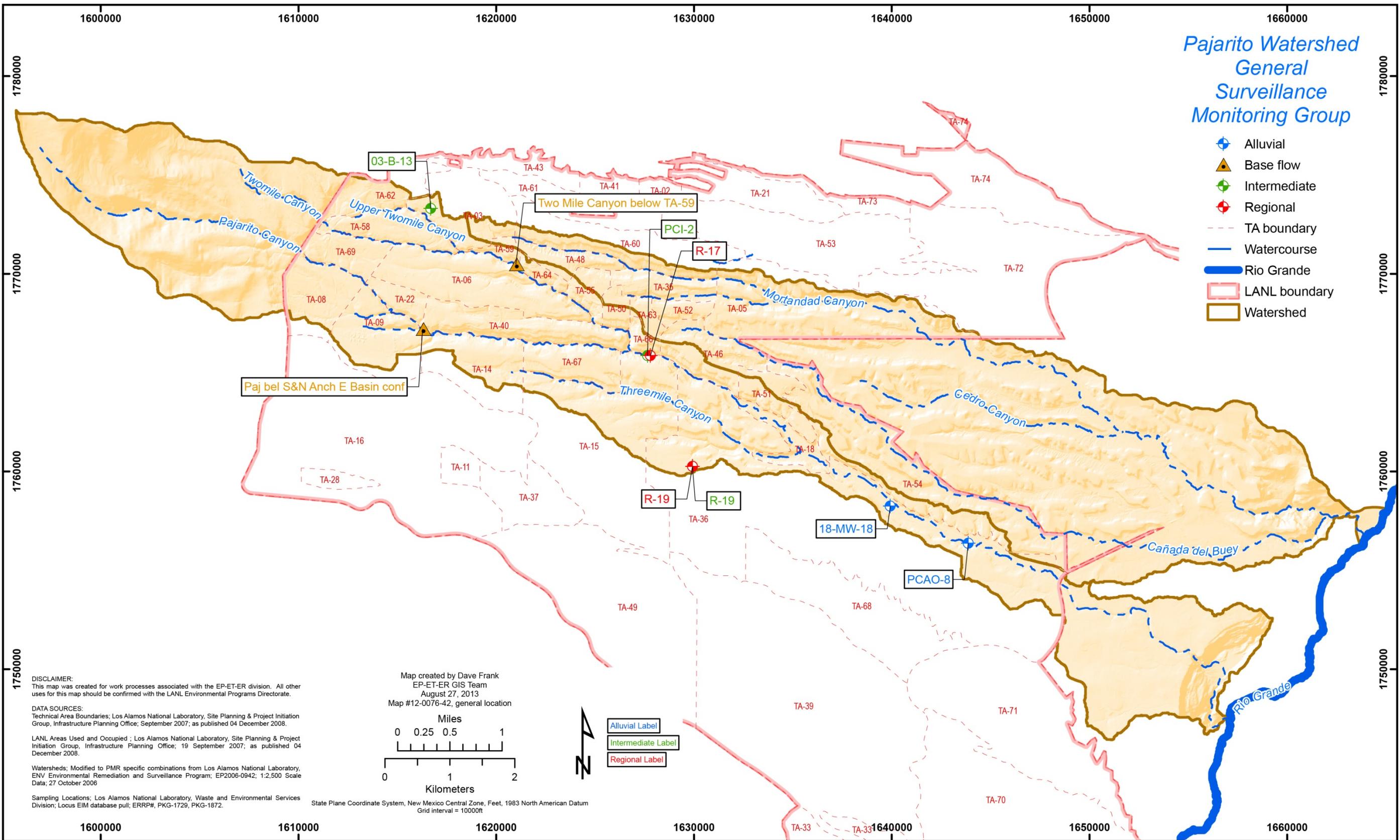


Figure 2.0-1 Locations monitored for this PME. Some locations on this map may not have been sampled (see Table 3.4-1).

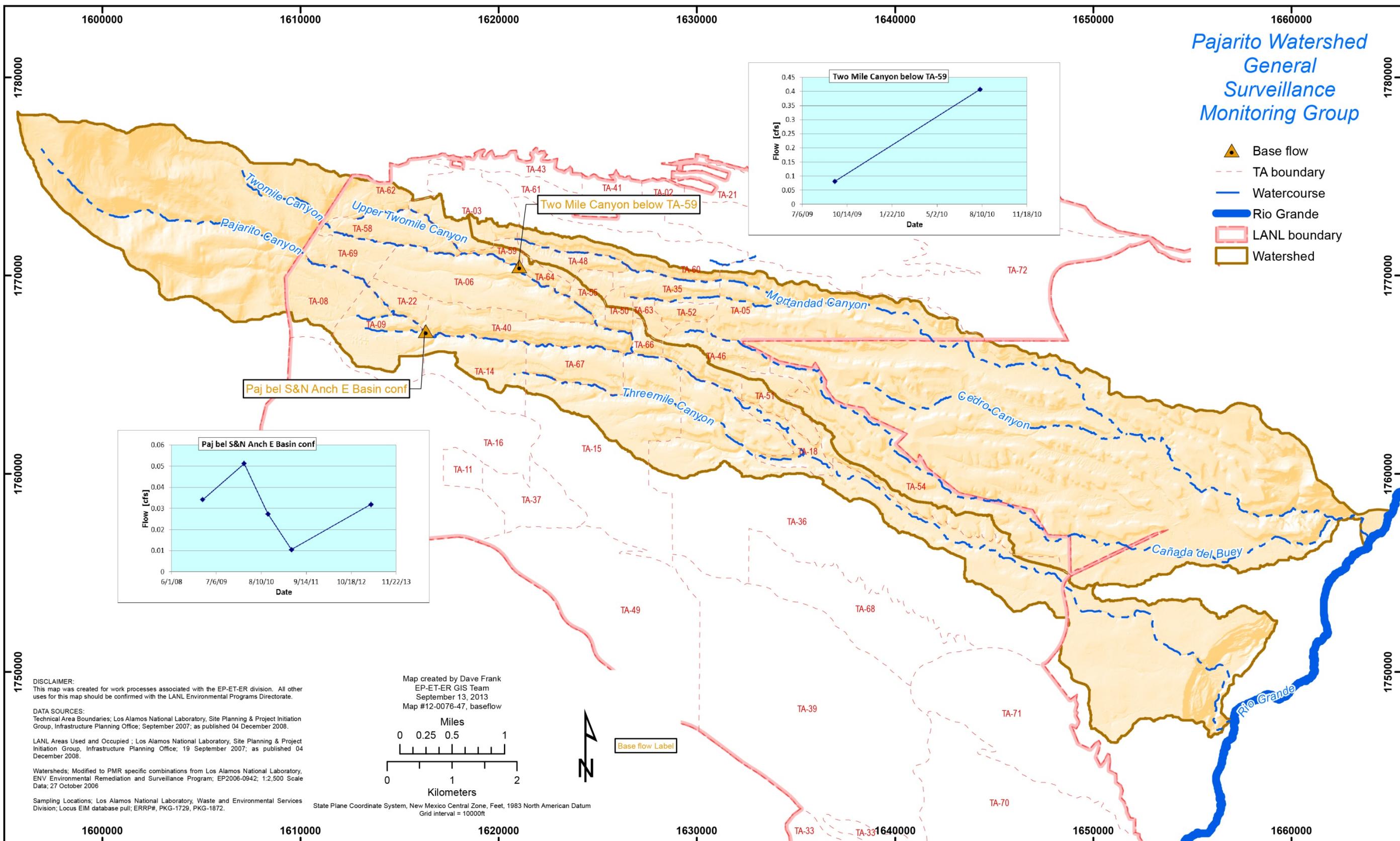


Figure 3.3-1 Base-flow measurements

Table 2.0-1
Pajarito Watershed General Surveillance
Monitoring Group Locations and General Information

Location Name	Sample Collection Date	Screen Interval (ft)	Screen Top Depth (ft)	Screen Bottom Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge or Flow Rate (gpm ^a)
Base Flow							
Paj bel S&N Anch E Basin conf	04/12/13	n/a ^b	n/a	n/a	n/a	n/a	14
Two Mile Canyon below TA-59	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Alluvial							
18-MW-18	04/23/13	10.5	12.5	23	1.24	2	0.03
PCAO-8	n/a	10	9.7	19.7	n/a	n/a	n/a
Intermediate							
03-B-13	04/23/13	10	21.5	31.5	0.93	2.8	0.07
PCI-2	04/15/13	10	512	522	20.4	62	0.4
R-19 S2	04/17/13	16.3	893.3	909.6	n/a	n/a	n/a
Regional							
R-17 S1	04/25/13	23	1057	1080	51.9	157	2.15
R-17 S2	04/25/13	10	1124	1134	28.7	87.5	2.30
R-19 S3	04/17/13	44	1171.4	1215.4	n/a	n/a	n/a
R-19 S4	04/16/13	7.2	1410.2	1417.4	n/a	n/a	n/a

^a gpm = Gallons per minute.

^b n/a = Not applicable.

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

Location	Deviation	Cause	Comment
18-MW-18	Limited data are included in this report for this location.	The well purged dry during sampling.	This location will be sampled during the next scheduled PME.
PCAO-8	No data are included in this report for this location.	The well was dry.	This location will be sampled during the next scheduled PME.
Two Mile Canyon below TA-59	No data are included in this report for this location.	The site was dry.	This location will be sampled during the next scheduled PME.

Table 3.4-2
Analytes with PQLs above Screening Levels

Analyte or CAS ^a No.	Analyte Name	MDL ^b	PQL	Screening Level	Unit	Screening-Level Type
Herbicides						
94-74-6	MCPA ^c	12	53	18	µg/L	EPA Regional Tap
93-65-2	MCPP ^d	11	53	37	µg/L	EPA Regional Tap
Metals						
Be	Beryllium	1	5	4	µg/L	EPA MCL
Semivolatile Organic Compounds						
1912-24-9	Atrazine	3	10	3	µg/L	EPA MCL
103-33-3	Azobenzene	2	10	1.3	µg/L	EPA Regional Tap
92-87-5	Benzidine	3	10	0.00094	µg/L	EPA Regional Tap
56-55-3	Benzo(a)anthracene	0.2	1	0.29	µg/L	EPA Regional Tap
50-32-8	Benzo(a)pyrene	0.2	1	0.2	µg/L	EPA MCL
205-99-2	Benzo(b)fluoranthene	0.2	1	0.29	µg/L	EPA Regional Tap
111-44-4	Bis(2-chloroethyl)ether	2	10	0.12	µg/L	EPA Regional Tap
117-81-7	Bis(2-ethylhexyl)phthalate	2	10	6	µg/L	EPA MCL
106-47-8	Chloroaniline[4-]	2	10	3.4	µg/L	EPA Regional Tap
53-70-3	Dibenz(a,h)anthracene	0.2	1	0.029	µg/L	EPA Regional Tap
91-94-1	Dichlorobenzidine[3,3'-]	2	10	1.5	µg/L	EPA Regional Tap
534-52-1	Dinitro-2-methylphenol[4,6-]	3	10	2.9	µg/L	EPA Regional Tap
123-91-1	Dioxane[1,4-]	2	10	6.7	µg/L	EPA Regional Tap
118-74-1	Hexachlorobenzene	2	10	1	µg/L	EPA MCL
193-39-5	Indeno(1,2,3-cd)pyrene	0.2	1	0.29	µg/L	EPA Regional Tap
55-18-5	Nitrosodiethylamine[N-]	2	10	0.0014	µg/L	EPA Regional Tap
62-75-9	Nitrosodimethylamine[N-]	2	10	0.0042	µg/L	EPA Regional Tap
924-16-3	Nitroso-di-n-butylamine[N-]	3	10	0.024	µg/L	EPA Regional Tap
621-64-7	Nitroso-di-n-propylamine[N-]	2	10	0.096	µg/L	EPA Regional Tap
930-55-2	Nitrosopyrrolidine[N-]	2	10	0.32	µg/L	EPA Regional Tap
108-60-1	Oxybis(1-chloropropane) [2,2'-]	2	10	3.2	µg/L	EPA Regional Tap
87-86-5	Pentachlorophenol	2	10	1	µg/L	EPA MCL
108-95-2	Phenol	1	10	5	µg/L	NMWQCC Groundwater Standard
Volatile Organic Compounds						
107-02-8	Acrolein	1.3	5	0.042	µg/L	EPA Regional Tap
107-13-1	Acrylonitrile	1	5	0.45	µg/L	EPA Regional Tap
126-99-8	Chloro-1,3-butadiene[2-]	0.3	1	0.16	µg/L	EPA Regional Tap
96-12-8	Dibromo-3-chloropropane[1,2-]	0.3	1	0.2	µg/L	EPA MCL
106-93-4	Dibromoethane[1,2-]	0.25	1	0.05	µg/L	EPA MCL
126-98-7	Methacrylonitrile	1	5	1	µg/L	EPA Regional Tap

Table 3.4-2 (continued)

Analyte or CAS ^a No.	Analyte Name	MDL ^b	PQL	Screening Level	Unit	Screening-Level Type
75-09-2	Methylene chloride	3	10	5	µg/L	EPA MCL
96-18-4	Trichloropropane[1,2,3-]	0.3	1	0.0072	µg/L	EPA Regional Tap

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

^a CAS = Chemical Abstracts Service.

^b MDL = Method detection limit.

^c MCPA = 2-Methyl-4-chlorophenoxyacetic acid.

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

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

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

^a n/a = Not applicable.

^b X = Applied to data screen for this report.

^c CFR = Code of Federal Regulations.

Table 4.2-2
Base-Flow Location Type and Hardness Assignments Used to Select Screening Levels

Watershed	Location	Stream Type	Hardness (mg/L as CaCO ₃)
Pajarito	Paj bel S&N Anch E Basin conf	Perennial	50

Table 4.2-3
Pajarito Watershed General Surveillance
Monitoring Group Groundwater Results above Screening Levels

Intermediate Groundwater							
Location	Date	Analyte	Field Prep Code	Result	Unit	Screening Level	Screening-Level Type
03-B-13	04/23/13	Iron	F*	1520	µg/L	1000	NMWQCC Groundwater Standard

*F = Filtered.

Appendix A

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

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
03-B-13	21.5	04/23/13	WG ^a	Dissolved Oxygen	0.08	mg/L	CAPA-13-29662
03-B-13	21.5	10/23/12	WG	Dissolved Oxygen	0.68	mg/L	CAPA-12-23794
03-B-13	21.5	04/23/12	WG	Dissolved Oxygen	0.38	mg/L	CAPA-12-13277
03-B-13	21.5	10/21/11	WG	Dissolved Oxygen	0.25	mg/L	CAPA-12-1132
03-B-13	21.5	07/11/11	WG	Dissolved Oxygen	0.23	mg/L	CAPA-11-22661
03-B-13	21.5	04/23/13	WG	Oxidation-Reduction Potential	228.6	mV	CAPA-13-29662
03-B-13	21.5	10/23/12	WG	Oxidation-Reduction Potential	234.6	mV	CAPA-12-23794
03-B-13	21.5	04/23/12	WG	Oxidation-Reduction Potential	207.3	mV	CAPA-12-13277
03-B-13	21.5	10/21/11	WG	Oxidation-Reduction Potential	102.9	mV	CAPA-12-1132
03-B-13	21.5	07/11/11	WG	Oxidation-Reduction Potential	192.2	mV	CAPA-11-22661
03-B-13	21.5	04/23/13	WG	pH	5.92	SU ^b	CAPA-13-29662
03-B-13	21.5	10/23/12	WG	pH	5.98	SU	CAPA-12-23794
03-B-13	21.5	04/23/12	WG	pH	5.96	SU	CAPA-12-13277
03-B-13	21.5	10/21/11	WG	pH	6.1	SU	CAPA-12-1132
03-B-13	21.5	07/11/11	WG	pH	6.15	SU	CAPA-11-22661
03-B-13	21.5	04/23/13	WG	Specific Conductance	140	µS/cm	CAPA-13-29662
03-B-13	21.5	10/23/12	WG	Specific Conductance	424	µS/cm	CAPA-12-23794
03-B-13	21.5	04/23/12	WG	Specific Conductance	605	µS/cm	CAPA-12-13277
03-B-13	21.5	10/21/11	WG	Specific Conductance	414	µS/cm	CAPA-12-1132
03-B-13	21.5	07/11/11	WG	Specific Conductance	298	µS/cm	CAPA-11-22661
03-B-13	21.5	04/23/13	WG	Temperature	13.56	deg C	CAPA-13-29662
03-B-13	21.5	10/23/12	WG	Temperature	14.14	deg C	CAPA-12-23794
03-B-13	21.5	04/23/12	WG	Temperature	13.79	deg C	CAPA-12-13277
03-B-13	21.5	10/21/11	WG	Temperature	14.1	deg C	CAPA-12-1132
03-B-13	21.5	07/11/11	WG	Temperature	14.36	deg C	CAPA-11-22661
03-B-13	21.5	04/23/13	WG	Turbidity	21.7	NTU ^c	CAPA-13-29662
03-B-13	21.5	10/23/12	WG	Turbidity	31.4	NTU	CAPA-12-23794
03-B-13	21.5	04/23/12	WG	Turbidity	9.05	NTU	CAPA-12-13277

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
03-B-13	21.5	10/21/11	WG	Turbidity	120	NTU	CAPA-12-1132
03-B-13	21.5	07/11/11	WG	Turbidity	35.3	NTU	CAPA-11-22661
18-MW-18	12.5	04/23/13	WG	Dissolved Oxygen	4.27	mg/L	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Dissolved Oxygen	7.27	mg/L	CAPA-12-13278
18-MW-18	12.5	07/26/10	WG	Dissolved Oxygen	14.34	mg/L	CAPA-10-24037
18-MW-18	12.5	09/02/09	WG	Dissolved Oxygen	6.16	mg/L	CAPA-09-12138
18-MW-18	12.5	05/29/09	WG	Dissolved Oxygen	11.01	mg/L	CAPA-09-9327
18-MW-18	12.5	04/23/13	WG	Oxidation-Reduction Potential	181	mV	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Oxidation-Reduction Potential	125.2	mV	CAPA-12-13278
18-MW-18	12.5	07/26/10	WG	Oxidation-Reduction Potential	188.1	mV	CAPA-10-24037
18-MW-18	12.5	09/02/09	WG	Oxidation-Reduction Potential	151.2	mV	CAPA-09-12138
18-MW-18	12.5	05/29/09	WG	Oxidation-Reduction Potential	259.4	mV	CAPA-09-9327
18-MW-18	12.5	04/23/13	WG	pH	6.54	SU	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	pH	6.76	SU	CAPA-12-13278
18-MW-18	12.5	07/26/10	WG	pH	6.51	SU	CAPA-10-24037
18-MW-18	12.5	09/02/09	WG	pH	6.61	SU	CAPA-09-12138
18-MW-18	12.5	05/29/09	WG	pH	6.44	SU	CAPA-09-9327
18-MW-18	12.5	04/23/13	WG	Specific Conductance	831	µS/cm	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Specific Conductance	146.7	µS/cm	CAPA-12-13278
18-MW-18	12.5	07/26/10	WG	Specific Conductance	635	µS/cm	CAPA-10-24037
18-MW-18	12.5	09/02/09	WG	Specific Conductance	1023	µS/cm	CAPA-09-12138
18-MW-18	12.5	05/29/09	WG	Specific Conductance	1104	µS/cm	CAPA-09-9327
18-MW-18	12.5	04/23/13	WG	Temperature	13.01	deg C	CAPA-13-29663
18-MW-18	12.5	04/30/12	WG	Temperature	11.93	deg C	CAPA-12-13278
18-MW-18	12.5	07/26/10	WG	Temperature	13.62	deg C	CAPA-10-24037
18-MW-18	12.5	09/02/09	WG	Temperature	14.64	deg C	CAPA-09-12138
18-MW-18	12.5	05/29/09	WG	Temperature	11.89	deg C	CAPA-09-9327
18-MW-18	12.5	04/23/13	WG	Turbidity	910	NTU	CAPA-13-29663

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
18-MW-18	12.5	04/30/12	WG	Turbidity	1.86	NTU	CAPA-12-13278
18-MW-18	12.5	07/26/10	WG	Turbidity	3.94	NTU	CAPA-10-24037
18-MW-18	12.5	09/02/09	WG	Turbidity	0.75	NTU	CAPA-09-12138
18-MW-18	12.5	05/29/09	WG	Turbidity	2.8	NTU	CAPA-09-9327
Paj bel S&N Anch E Basin conf	— ^d	04/12/13	WS ^e	Dissolved Oxygen	9	mg/L	CAPA-13-29664
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	Dissolved Oxygen	8.51	mg/L	CAPA-11-9524
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	Dissolved Oxygen	8.3	mg/L	CAPA-10-26874
Paj bel S&N Anch E Basin conf	—	03/10/10	WS	Dissolved Oxygen	10.16	mg/L	CAPA-10-12694
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	Dissolved Oxygen	8.18	mg/L	CAPA-09-12075
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	pH	7.76	SU	CAPA-13-29664
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	pH	7.99	SU	CAPA-11-9524
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	pH	8.1	SU	CAPA-10-26874
Paj bel S&N Anch E Basin conf	—	03/10/10	WS	pH	7.39	SU	CAPA-10-12694
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	pH	7.68	SU	CAPA-09-12075
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	Specific Conductance	249	µS/cm	CAPA-13-29664
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	Specific Conductance	274	µS/cm	CAPA-11-9524
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	Specific Conductance	236	µS/cm	CAPA-10-26874
Paj bel S&N Anch E Basin conf	—	03/10/10	WS	Specific Conductance	407	µS/cm	CAPA-10-12694
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	Specific Conductance	213	µS/cm	CAPA-09-12075
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	Temperature	3.59	deg C	CAPA-13-29664
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	Temperature	12.8	deg C	CAPA-11-9524
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	Temperature	11	deg C	CAPA-10-26874
Paj bel S&N Anch E Basin conf	—	03/10/10	WS	Temperature	3.43	deg C	CAPA-10-12694
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	Temperature	10.95	deg C	CAPA-09-12075
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	Turbidity	6.1	NTU	CAPA-13-29664
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	Turbidity	5.65	NTU	CAPA-11-9524
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	Turbidity	11	NTU	CAPA-10-26874
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	Turbidity	6.17	NTU	CAPA-09-12075

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
Pajuel S&N Anch E Basin conf	—	03/06/09	WS	Turbidity	22.5	NTU	CAPA-09-4059
PCI-2	512	04/15/13	WG	Dissolved Oxygen	8.16	mg/L	CAPA-13-29666
PCI-2	512	04/24/12	WG	Dissolved Oxygen	8.23	mg/L	CAPA-12-13281
PCI-2	512	07/22/11	WG	Dissolved Oxygen	8.14	mg/L	CAPA-11-22851
PCI-2	512	05/06/11	WG	Dissolved Oxygen	8.2	mg/L	CAPA-11-9283
PCI-2	512	10/11/10	WG	Dissolved Oxygen	7.59	mg/L	CAPA-10-26957
PCI-2	512	04/15/13	WG	Oxidation-Reduction Potential	235.5	mV	CAPA-13-29666
PCI-2	512	04/24/12	WG	Oxidation-Reduction Potential	134.8	mV	CAPA-12-13281
PCI-2	512	07/22/11	WG	Oxidation-Reduction Potential	309.2	mV	CAPA-11-22851
PCI-2	512	05/06/11	WG	Oxidation-Reduction Potential	125.9	mV	CAPA-11-9283
PCI-2	512	10/11/10	WG	Oxidation-Reduction Potential	75.1	mV	CAPA-10-26957
PCI-2	512	04/15/13	WG	pH	7.08	SU	CAPA-13-29666
PCI-2	512	04/24/12	WG	pH	7.33	SU	CAPA-12-13281
PCI-2	512	07/22/11	WG	pH	7.42	SU	CAPA-11-22851
PCI-2	512	05/06/11	WG	pH	7.14	SU	CAPA-11-9283
PCI-2	512	10/11/10	WG	pH	6.77	SU	CAPA-10-26957
PCI-2	512	04/15/13	WG	Specific Conductance	105	µS/cm	CAPA-13-29666
PCI-2	512	04/24/12	WG	Specific Conductance	107	µS/cm	CAPA-12-13281
PCI-2	512	07/22/11	WG	Specific Conductance	111	µS/cm	CAPA-11-22851
PCI-2	512	05/06/11	WG	Specific Conductance	109	µS/cm	CAPA-11-9283
PCI-2	512	10/11/10	WG	Specific Conductance	108	µS/cm	CAPA-10-26957
PCI-2	512	04/15/13	WG	Temperature	13.42	deg C	CAPA-13-29666
PCI-2	512	04/24/12	WG	Temperature	13.46	deg C	CAPA-12-13281
PCI-2	512	07/22/11	WG	Temperature	14.11	deg C	CAPA-11-22851
PCI-2	512	05/06/11	WG	Temperature	14.82	deg C	CAPA-11-9283
PCI-2	512	10/11/10	WG	Temperature	13.56	deg C	CAPA-10-26957
PCI-2	512	04/15/13	WG	Turbidity	0.4	NTU	CAPA-13-29666
PCI-2	512	04/24/12	WG	Turbidity	0.35	NTU	CAPA-12-13281

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
PCI-2	512	07/22/11	WG	Turbidity	0.89	NTU	CAPA-11-22851
PCI-2	512	05/06/11	WG	Turbidity	0.8	NTU	CAPA-11-9283
PCI-2	512	10/11/10	WG	Turbidity	0.7	NTU	CAPA-10-26957
R-17 S1	1057	04/25/13	WG	Dissolved Oxygen	7.39	mg/L	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Dissolved Oxygen	7.2	mg/L	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Dissolved Oxygen	7.2	mg/L	CAPA-12-13292
R-17 S1	1057	07/27/11	WG	Dissolved Oxygen	7.55	mg/L	CAPA-11-22871
R-17 S1	1057	04/27/11	WG	Dissolved Oxygen	6.77	mg/L	CAPA-11-9288
R-17 S1	1057	01/20/11	WG	Dissolved Oxygen	5.41	mg/L	CAPA-11-2982
R-17 S1	1057	04/25/13	WG	Oxidation-Reduction Potential	140.2	mV	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Oxidation-Reduction Potential	137.9	mV	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Oxidation-Reduction Potential	137.9	mV	CAPA-12-13292
R-17 S1	1057	07/27/11	WG	Oxidation-Reduction Potential	123.1	mV	CAPA-11-22871
R-17 S1	1057	04/27/11	WG	Oxidation-Reduction Potential	73	mV	CAPA-11-9288
R-17 S1	1057	01/20/11	WG	Oxidation-Reduction Potential	201.7	mV	CAPA-11-2982
R-17 S1	1057	04/25/13	WG	pH	7.88	SU	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	pH	7.75	SU	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	pH	7.75	SU	CAPA-12-13292
R-17 S1	1057	07/27/11	WG	pH	7.95	SU	CAPA-11-22871
R-17 S1	1057	04/27/11	WG	pH	7.95	SU	CAPA-11-9288
R-17 S1	1057	01/20/11	WG	pH	7.68	SU	CAPA-11-2982
R-17 S1	1057	04/25/13	WG	Specific Conductance	127	µS/cm	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Specific Conductance	123	µS/cm	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Specific Conductance	123	µS/cm	CAPA-12-13292
R-17 S1	1057	07/27/11	WG	Specific Conductance	130	µS/cm	CAPA-11-22871
R-17 S1	1057	04/27/11	WG	Specific Conductance	122	µS/cm	CAPA-11-9288
R-17 S1	1057	01/20/11	WG	Specific Conductance	122	µS/cm	CAPA-11-2982
R-17 S1	1057	04/25/13	WG	Temperature	20.52	deg C	CAPA-13-29667

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-17 S1	1057	05/02/12	WG	Temperature	22.15	deg C	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Temperature	22.15	deg C	CAPA-12-13292
R-17 S1	1057	07/27/11	WG	Temperature	22.07	deg C	CAPA-11-22871
R-17 S1	1057	04/27/11	WG	Temperature	21.69	deg C	CAPA-11-9288
R-17 S1	1057	01/20/11	WG	Temperature	21.36	deg C	CAPA-11-2982
R-17 S1	1057	04/25/13	WG	Turbidity	127	NTU	CAPA-13-29667
R-17 S1	1057	05/02/12	WG	Turbidity	0.7	NTU	CAPA-12-13282
R-17 S1	1057	05/02/12	WG	Turbidity	0.7	NTU	CAPA-12-13292
R-17 S1	1057	07/27/11	WG	Turbidity	0.81	NTU	CAPA-11-22871
R-17 S1	1057	04/27/11	WG	Turbidity	0.71	NTU	CAPA-11-9288
R-17 S1	1057	01/20/11	WG	Turbidity	0.65	NTU	CAPA-11-2982
R-17 S2	1124	04/25/13	WG	Dissolved Oxygen	6.61	mg/L	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Dissolved Oxygen	6.52	mg/L	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Dissolved Oxygen	6.52	mg/L	CAPA-12-13293
R-17 S2	1124	07/27/11	WG	Dissolved Oxygen	6.45	mg/L	CAPA-11-22876
R-17 S2	1124	04/27/11	WG	Dissolved Oxygen	6.53	mg/L	CAPA-11-9289
R-17 S2	1124	01/20/11	WG	Dissolved Oxygen	5.42	mg/L	CAPA-11-2984
R-17 S2	1124	04/25/13	WG	Oxidation-Reduction Potential	126.8	mV	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Oxidation-Reduction Potential	146.9	mV	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Oxidation-Reduction Potential	146.9	mV	CAPA-12-13293
R-17 S2	1124	07/27/11	WG	Oxidation-Reduction Potential	123.2	mV	CAPA-11-22876
R-17 S2	1124	04/27/11	WG	Oxidation-Reduction Potential	64.3	mV	CAPA-11-9289
R-17 S2	1124	01/20/11	WG	Oxidation-Reduction Potential	214.4	mV	CAPA-11-2984
R-17 S2	1124	04/25/13	WG	pH	7.93	SU	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	pH	7.89	SU	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	pH	7.89	SU	CAPA-12-13293
R-17 S2	1124	07/27/11	WG	pH	7.97	SU	CAPA-11-22876
R-17 S2	1124	04/27/11	WG	pH	7.99	SU	CAPA-11-9289

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-17 S2	1124	01/20/11	WG	pH	7.76	SU	CAPA-11-2984
R-17 S2	1124	04/25/13	WG	Specific Conductance	117	µS/cm	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Specific Conductance	118	µS/cm	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Specific Conductance	118	µS/cm	CAPA-12-13293
R-17 S2	1124	07/27/11	WG	Specific Conductance	122	µS/cm	CAPA-11-22876
R-17 S2	1124	04/27/11	WG	Specific Conductance	119	µS/cm	CAPA-11-9289
R-17 S2	1124	01/20/11	WG	Specific Conductance	118	µS/cm	CAPA-11-2984
R-17 S2	1124	04/25/13	WG	Temperature	20.94	deg C	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Temperature	21.96	deg C	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Temperature	21.96	deg C	CAPA-12-13293
R-17 S2	1124	07/27/11	WG	Temperature	22.03	deg C	CAPA-11-22876
R-17 S2	1124	04/27/11	WG	Temperature	21.51	deg C	CAPA-11-9289
R-17 S2	1124	01/20/11	WG	Temperature	21.43	deg C	CAPA-11-2984
R-17 S2	1124	04/25/13	WG	Turbidity	0.6	NTU	CAPA-13-29668
R-17 S2	1124	05/02/12	WG	Turbidity	0.28	NTU	CAPA-12-13283
R-17 S2	1124	05/02/12	WG	Turbidity	0.28	NTU	CAPA-12-13293
R-17 S2	1124	07/27/11	WG	Turbidity	0.35	NTU	CAPA-11-22876
R-17 S2	1124	04/27/11	WG	Turbidity	0.3	NTU	CAPA-11-9289
R-17 S2	1124	01/20/11	WG	Turbidity	0.3	NTU	CAPA-11-2984
R-19 S2	893.3	04/17/13	WG	Dissolved Oxygen	6.9	mg/L	CAPA-13-29669
R-19 S2	893.3	05/02/12	WG	Dissolved Oxygen	4.17	mg/L	CAPA-12-13284
R-19 S2	893.3	05/12/11	WG	Dissolved Oxygen	6.59	mg/L	CAPA-11-9564
R-19 S2	893.3	10/15/10	WG	Dissolved Oxygen	3.46	mg/L	CAPA-10-26954
R-19 S2	893.3	06/02/10	WG	Dissolved Oxygen	3.85	mg/L	CAPA-10-17572
R-19 S2	893.3	04/17/13	WG	pH	7.92	SU	CAPA-13-29669
R-19 S2	893.3	05/02/12	WG	pH	8.24	SU	CAPA-12-13284
R-19 S2	893.3	05/12/11	WG	pH	8.27	SU	CAPA-11-9564
R-19 S2	893.3	10/15/10	WG	pH	8.04	SU	CAPA-10-26954

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-19 S2	893.3	06/02/10	WG	pH	7.96	SU	CAPA-10-17572
R-19 S2	893.3	04/17/13	WG	Specific Conductance	166	µS/cm	CAPA-13-29669
R-19 S2	893.3	05/02/12	WG	Specific Conductance	168	µS/cm	CAPA-12-13284
R-19 S2	893.3	05/12/11	WG	Specific Conductance	169	µS/cm	CAPA-11-9564
R-19 S2	893.3	10/15/10	WG	Specific Conductance	168	µS/cm	CAPA-10-26954
R-19 S2	893.3	06/02/10	WG	Specific Conductance	169	µS/cm	CAPA-10-17572
R-19 S2	893.3	04/17/13	WG	Temperature	17.63	deg C	CAPA-13-29669
R-19 S2	893.3	05/02/12	WG	Temperature	20.29	deg C	CAPA-12-13284
R-19 S2	893.3	05/12/11	WG	Temperature	17.79	deg C	CAPA-11-9564
R-19 S2	893.3	10/15/10	WG	Temperature	19.12	deg C	CAPA-10-26954
R-19 S2	893.3	06/02/10	WG	Temperature	19.47	deg C	CAPA-10-17572
R-19 S2	893.3	04/17/13	WG	Turbidity	5.4	NTU	CAPA-13-29669
R-19 S2	893.3	05/02/12	WG	Turbidity	0.3	NTU	CAPA-12-13284
R-19 S2	893.3	05/12/11	WG	Turbidity	0.44	NTU	CAPA-11-9564
R-19 S2	893.3	10/15/10	WG	Turbidity	0.31	NTU	CAPA-10-26954
R-19 S2	893.3	06/02/10	WG	Turbidity	0.32	NTU	CAPA-10-17572
R-19 S3	1171.4	04/16/13	WG	Dissolved Oxygen	5.19	mg/L	CAPA-13-29670
R-19 S3	1171.4	05/03/12	WG	Dissolved Oxygen	5.82	mg/L	CAPA-12-13285
R-19 S3	1171.4	07/20/11	WG	Dissolved Oxygen	4.69	mg/L	CAPA-11-22860
R-19 S3	1171.4	05/10/11	WG	Dissolved Oxygen	7.13	mg/L	CAPA-11-9578
R-19 S3	1171.4	01/21/11	WG	Dissolved Oxygen	4.85	mg/L	CAPA-11-2969
R-19 S3	1171.4	04/16/13	WG	pH	7.89	SU	CAPA-13-29670
R-19 S3	1171.4	05/03/12	WG	pH	7.94	SU	CAPA-12-13285
R-19 S3	1171.4	07/20/11	WG	pH	8.03	SU	CAPA-11-22860
R-19 S3	1171.4	05/10/11	WG	pH	7.97	SU	CAPA-11-9578
R-19 S3	1171.4	01/21/11	WG	pH	8.06	SU	CAPA-11-2969
R-19 S3	1171.4	04/16/13	WG	Specific Conductance	134	µS/cm	CAPA-13-29670
R-19 S3	1171.4	05/03/12	WG	Specific Conductance	135	µS/cm	CAPA-12-13285

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-19 S3	1171.4	07/20/11	WG	Specific Conductance	140	µS/cm	CAPA-11-22860
R-19 S3	1171.4	05/10/11	WG	Specific Conductance	132	µS/cm	CAPA-11-9578
R-19 S3	1171.4	01/21/11	WG	Specific Conductance	148	µS/cm	CAPA-11-2969
R-19 S3	1171.4	04/16/13	WG	Temperature	19.17	deg C	CAPA-13-29670
R-19 S3	1171.4	05/03/12	WG	Temperature	20.59	deg C	CAPA-12-13285
R-19 S3	1171.4	07/20/11	WG	Temperature	23.85	deg C	CAPA-11-22860
R-19 S3	1171.4	05/10/11	WG	Temperature	19.5	deg C	CAPA-11-9578
R-19 S3	1171.4	01/21/11	WG	Temperature	18.73	deg C	CAPA-11-2969
R-19 S3	1171.4	04/16/13	WG	Turbidity	2.5	NTU	CAPA-13-29670
R-19 S3	1171.4	05/03/12	WG	Turbidity	0.36	NTU	CAPA-12-13285
R-19 S3	1171.4	07/20/11	WG	Turbidity	0.63	NTU	CAPA-11-22860
R-19 S3	1171.4	05/10/11	WG	Turbidity	0.51	NTU	CAPA-11-9578
R-19 S3	1171.4	01/21/11	WG	Turbidity	6.05	NTU	CAPA-11-2969
R-19 S4	1410.2	04/17/13	WG	Dissolved Oxygen	6.75	mg/L	CAPA-13-29671
R-19 S4	1410.2	05/07/12	WG	Dissolved Oxygen	7.58	mg/L	CAPA-12-13286
R-19 S4	1410.2	07/20/11	WG	Dissolved Oxygen	6.38	mg/L	CAPA-11-22864
R-19 S4	1410.2	05/10/11	WG	Dissolved Oxygen	6.5	mg/L	CAPA-11-9582
R-19 S4	1410.2	01/21/11	WG	Dissolved Oxygen	10.08	mg/L	CAPA-11-2973
R-19 S4	1410.2	04/17/13	WG	pH	8.12	SU	CAPA-13-29671
R-19 S4	1410.2	05/07/12	WG	pH	8.04	SU	CAPA-12-13286
R-19 S4	1410.2	07/20/11	WG	pH	8.05	SU	CAPA-11-22864
R-19 S4	1410.2	05/10/11	WG	pH	8.11	SU	CAPA-11-9582
R-19 S4	1410.2	01/21/11	WG	pH	7.65	SU	CAPA-11-2973
R-19 S4	1410.2	04/17/13	WG	Specific Conductance	113	µS/cm	CAPA-13-29671
R-19 S4	1410.2	05/07/12	WG	Specific Conductance	115	µS/cm	CAPA-12-13286
R-19 S4	1410.2	07/20/11	WG	Specific Conductance	120	µS/cm	CAPA-11-22864
R-19 S4	1410.2	05/10/11	WG	Specific Conductance	113	µS/cm	CAPA-11-9582
R-19 S4	1410.2	01/21/11	WG	Specific Conductance	121	µS/cm	CAPA-11-2973

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-19 S4	1410.2	04/17/13	WG	Temperature	18.46	deg C	CAPA-13-29671
R-19 S4	1410.2	05/07/12	WG	Temperature	19.33	deg C	CAPA-12-13286
R-19 S4	1410.2	07/20/11	WG	Temperature	22.97	deg C	CAPA-11-22864
R-19 S4	1410.2	05/10/11	WG	Temperature	19.36	deg C	CAPA-11-9582
R-19 S4	1410.2	01/21/11	WG	Temperature	18.65	deg C	CAPA-11-2973
R-19 S4	1410.2	04/17/13	WG	Turbidity	5.2	NTU	CAPA-13-29671
R-19 S4	1410.2	05/07/12	WG	Turbidity	0.7	NTU	CAPA-12-13286
R-19 S4	1410.2	07/20/11	WG	Turbidity	0.71	NTU	CAPA-11-22864
R-19 S4	1410.2	05/10/11	WG	Turbidity	0.68	NTU	CAPA-11-9582
R-19 S4	1410.2	01/21/11	WG	Turbidity	0.54	NTU	CAPA-11-2973

^a WG = Groundwater.

^b SU = Standard unit.

^c NTU = Nephelometric turbidity unit.

^d — = Not applicable.

^e WS = Base flow.

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	RCRA Labnet, Lionville, PA
RFWC	Roy F. Weston, Inc., West Chester, PA
SGSW	Paradigm Analytical Laboratories, Inc., Wilmington, NC
SILENS	Stable Isotope Laboratory, Woods Hole, MA
STL2, STR	Severn Trent Laboratories, Inc., Richland, WA (historical)
STLA	Severn Trent Laboratories, Inc., Los Angeles, CA
STSL	Severn Trent Laboratories, Inc., St. Louis, MO
SwRI	Southwest Research Institute, San Antonio, TX
UAZ	University of Arizona, Tucson
UIL	University of Illinois, Urbana-Champaign
UMTL	University of Miami Tritium Lab

Analytical Laboratory Qualifier Codes

C-6

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

Analytical Laboratory Qualifier Codes (continued)

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

Analytical Laboratory Qualifier Codes (continued)

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

Secondary Validation Flag Codes

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

Table C-1 Pajarito Watershed 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
R-17 S1	1057	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-78.0377	0.75657	—	—	permil	Y	—	NQ	11-2951	CAPA-11-22871	EES6
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-78.365	—	—	—	permil	N	—	NQ	10-4000	CAPA-10-24093	EES6
R-17 S1	1057	09/11/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-78.69	—	—	—	permil	N	—	NQ	09-3203	CAPA-09-12163	EES6
R-17 S1	1057	09/09/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-78.68	0.15	—	—	permil	N	—	NQ	08-1874	CAPA-08-15034	EES6
R-17 S1	1057	12/05/07	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-79.16	0.1	—	—	UNITLESS	N	—	NQ	08-352	CAPA-08-9327	EES6
R-17 S1	1057	07/27/11	WG	F	REP	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	-0.79214	0.06459	—	—	permil	Y	—	NQ	11-2951	CAPA-11-22872	EES6
R-17 S1	1057	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	-1.21631	0.17903	—	—	permil	N	—	NQ	11-2951	CAPA-11-22872	EES6
R-17 S1	1057	08/04/10	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	4.07511	—	—	—	permil	N	—	NQ	10-4000	CAPA-10-24092	EES6
R-17 S1	1057	09/11/09	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	3.57	—	—	—	permil	N	—	NQ	09-3203	CAPA-09-12162	EES6
R-17 S1	1057	09/09/08	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	5.36	0.37	—	—	permil	N	—	NQ	08-1874	CAPA-08-15032	EES6
R-17 S1	1057	12/05/07	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	4.97	0.26	—	—	UNITLESS	N	—	NQ	08-352	CAPA-08-9328	EES6
R-17 S1	1057	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.9135	0.09246	—	—	permil	Y	—	NQ	11-2951	CAPA-11-22871	EES6
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.8238	—	—	—	permil	N	—	NQ	10-4000	CAPA-10-24093	EES6
R-17 S1	1057	09/11/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.94	—	—	—	permil	N	—	NQ	09-3203	CAPA-09-12163	EES6
R-17 S1	1057	09/09/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-11.18	0.09	—	—	permil	N	—	NQ	08-1874	CAPA-08-15034	EES6
R-17 S1	1057	09/09/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-11.18	—	—	—	permil	N	—	NQ	08-1874	CAPA-08-15034	EES6
R-17 S1	1057	12/05/07	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.93	0.09	—	—	UNITLESS	N	—	NQ	08-352	CAPA-08-9327	EES6
R-17 S1	1057	12/05/07	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-10.93	—	—	—	permil	N	—	NQ	08-352	CAPA-08-9327	EES6
R-17 S1	1057	07/27/11	WG	F	REP	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-11.6756	0.45397	—	—	permil	Y	—	NQ	11-2951	CAPA-11-22872	EES6
R-17 S1	1057	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-11.7016	0.56059	—	—	permil	N	—	NQ	11-2951	CAPA-11-22872	EES6
R-17 S1	1057	08/04/10	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-4.01687	—	—	—	permil	N	—	NQ	10-4000	CAPA-10-24092	EES6
R-17 S1	1057	09/11/09	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-6.25	—	—	—	permil	N	—	NQ	09-3203	CAPA-09-12162	EES6
R-17 S1	1057	09/09/08	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	O18O16-NO3	Y	-5.2	—	—	—	permil	N	—	NQ	08-1874	CAPA-08-15032	EES6
R-17 S2	1124	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-78.1068	0.62202	—	—	permil	Y	—	NQ	11-2951	CAPA-11-22876	EES6
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-78.1226	—	—	—	permil	N	—	NQ	10-4000	CAPA-10-24097	EES6
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-81.5	—	—	—	permil	N	—	NQ	09-3203	CAPA-09-12166	EES6
R-17 S2	1124	09/09/08	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-80.06	0.31	—	—	permil	N	—	NQ	08-1889	CAPA-08-15035	EES6
R-17 S2	1124	12/06/07	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Deuterium Ratio	Deuterium Ratio	DELT AH-2	Y	-79.71	—	—	—	permil	N	—	NQ	08-368	CAPA-08-9332	EES6
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	3.03744	0.06177	—	—	permil	Y	—	NQ	11-2951	CAPA-11-22875	EES6
R-17 S2	1124	08/04/10	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	4.28361	—	—	—	permil	N	—	NQ	10-4000	CAPA-10-24096	EES6
R-17 S2	1124	09/11/09	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	3.91	—	—	—	permil	N	—	NQ	09-3203	CAPA-09-12164	EES6
R-17 S2	1124	09/09/08	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	4.16	0.19	—	—	permil	N	—	NQ	08-1889	CAPA-08-15037	EES6
R-17 S2	1124	12/06/07	WG	F	INIT	REG	GENERAL CHEMISTRY	Generic:Nitrogen Isotope Ratio	Nitrogen-15/Nitrogen-14 Ratio	N15N14	Y	3.59	—	—	—	permil	N	—	NQ	08-368	CAPA-08-9331	EES6
R-17 S2	1124	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-11.2026	0.09246	—	—	permil	Y	—	NQ	11-2951	CAPA-11-22876	EES6
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16	Y	-11.2446	—	—	—	permil	N	—	NQ	10-4000	CAPA-10-24097	EES6
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	GENERAL CHEMISTRY	Generic:Oxygen Isotope Ratio	Oxygen-18/Oxygen-16 Ratio	O18O16												

Table C-2 Pajarito Watershed 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
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.38	—	—	0.01	SU	Y	H	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.29	—	—	0.01	SU	Y	H	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.42	—	—	0.01	SU	Y	H	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.34	—	—	0.01	SU	Y	H	J-	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.97	—	—	0.01	SU	Y	H	J-	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	43	—	—	0.725	mg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	53.6	—	—	0.725	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	48.5	—	—	0.725	mg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	76.2	—	—	0.73	mg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.4	—	—	0.73	mg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	AI	Y	2220	—	—	68	µg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	AI	Y	3040	—	—	68	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	AI	Y	1520	—	—	68	µg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	AI	Y	11500	—	—	68	µg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	AI	Y	7830	—	—	68	µg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00747	0.00747	0.0724	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0244	0.0161	0.0731	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00501	0.006	0.043	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000218	0.0031	0.037	—	pCi/L	Y	U	U	10-2220	CAPA-10-12788	GELC
03-B-13	21.5	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00388	0.0076	0.061	—	pCi/L	Y	U	U	09-3202	CAPA-09-12149	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0885	—	—	0.017	mg/L	Y	—	J	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.106	—	—	0.017	mg/L	Y	—	U	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.15	—	—	0.017	mg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0646	—	—	0.016	mg/L	Y	—	J+	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0742	—	—	0.016	mg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.3	—	—	1	µg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	103	—	—	1	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	125	—	—	1	µg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	109	—	—	1	µg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	62.8	—	—	1	µg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	38.9	—	—	15	µg/L	Y	J	J	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	52	—	—	15	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	41.6	—	—	15	µg/L	Y	J	J	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	58.6	—	—	15	µg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	54.6	—	—	15	µg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	4.15	—	—	0.05	mg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/2																				

Table C-2 Pajarito Watershed 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
03-B-13	21.5	10/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Chloroform	67-66-3	N	5	—	—	1.5	µg/L	N	U	U	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.78	—	—	0.3	µg/L	Y	J	J	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	04/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.66	—	—	0.6	µg/L	N	J	J	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	10/21/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	1.1	—	—	0.25	µg/L	Y	—	NQ	12-146	CAPA-12-1132	GELC
03-B-13	21.5	10/21/11	WG	UF	DL	REG	VOC	SW-846:8260B	Chloroform	67-66-3	N	5	—	—	1.3	µg/L	N	U	UJ	12-146	CAPA-12-1132	GELC
03-B-13	21.5	07/11/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.7	—	—	0.25	µg/L	Y	J	J	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	07/11/11	WG	UF	DL	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.68	—	—	0.5	µg/L	N	J	J	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.157	1.61	6.23	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.29	1.53	5.85	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.453	1.4	4.9	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	03/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.037	0.85	2.7	—	pCi/L	Y	U	U	10-2220	CAPA-10-12788	GELC
03-B-13	21.5	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.832	1.2	3.7	—	pCi/L	Y	U	U	09-3202	CAPA-09-12149	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	3.27	—	—	3	µg/L	Y	J	J	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	3.39	—	—	3	µg/L	Y	J	J	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	N	10	—	—	3	µg/L	Y	U	U	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	5.01	—	—	3	µg/L	Y	J	J	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	5.36	—	—	3	µg/L	Y	J	J	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	0.75	—	—	0.3	µg/L	Y	J	J	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	10/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	3.26	—	—	0.3	µg/L	Y	—	NQ	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	10/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	2.8	—	—	1.5	µg/L	N	J	J	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	4.37	—	—	0.3	µg/L	Y	—	NQ	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	04/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	3.12	—	—	0.6	µg/L	N	—	NQ	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	10/21/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	5.83	—	—	0.3	µg/L	Y	—	NQ	12-146	CAPA-12-1132	GELC
03-B-13	21.5	10/21/11	WG	UF	DL	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	5.95	—	—	1.5	µg/L	N	—	J	12-146	CAPA-12-1132	GELC
03-B-13	21.5	07/11/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	2.9	—	—	0.3	µg/L	Y	—	NQ	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	07/11/11	WG	UF	DL	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	2.86	—	—	0.6	µg/L	N	—	J	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	0.74	—	—	0.3	µg/L	Y	J	J	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	10/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	3.96	—	—	0.3	µg/L	Y	—	NQ	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	10/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	2.65	—	—	1.5	µg/L	N	J	J	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	4.91	—	—	0.3	µg/L	Y	—	NQ	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	04/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	3.22	—	—	0.6	µg/L	N	—	NQ	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	10/21/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	5.73	—	—	0.3	µg/L	Y	—	NQ	12-146	CAPA-12-1132	GELC
03-B-13	21.5	10/21/11	WG	UF	DL	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	5.7	—	—	1.5	µg/L	N	—	J	12-146	CAPA-12-1132	GELC
03-B-13	21.5	07/11/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	2.64	—	—	0.3	µg/L	Y	—	NQ	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	07/11/11	WG	UF	DL	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-35-4	Y	2.34	—	—	0.6	µg/L	N	—	J	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	Y	6.22	—	—	3	µg/L						

Table C-2 Pajarito Watershed 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
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	16	2	2.4	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	09/14/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	14	2.15	3.91	—	pCi/L	Y	—	—	193817	GU07090G3B1301	GELC
03-B-13	21.5	07/10/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	8.09	1.49	3.66	—	pCi/L	Y	—	J	189433	GU07060G3B1301	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	15	—	—	0.453	mg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	54.6	—	—	0.453	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	71.3	—	—	0.453	mg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	51.1	—	—	0.45	mg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	28.7	—	—	0.45	mg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	1520	—	—	30	µg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	1930	—	—	30	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	857	—	—	30	µg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	7170	—	—	30	µg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	4550	—	—	30	µg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	2.31	—	—	0.5	µg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	2.55	—	—	0.5	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	1.08	—	—	0.5	µg/L	Y	J	J	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	3.72	—	—	0.5	µg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	4.01	—	—	0.5	µg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	1.14	—	—	0.11	mg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.02	—	—	0.11	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.01	—	—	0.11	mg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.09	—	—	0.11	mg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.5	—	—	0.11	mg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	10.4	—	—	2	µg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	14	—	—	2	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	13.6	—	—	2	µg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	42.8	—	—	2	µg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	27.4	—	—	2	µg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.07	—	—	0.165	µg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.328	—	—	0.165	µg/L	Y	J	U	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.605	—	—	0.165	µg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.711	—	—	0.17	µg/L	Y	—	U	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.27	—	—	0.17	µg/L	Y	—	J	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0677	2.97	10.5	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.21	3.45	11.7	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.98	2.8	8.3	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	03/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.495	7.2	24	—	pCi/L	Y	U	U	10-2220	CAPA-10-12788	

Table C-2 Pajarito Watershed 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
03-B-13	21.5	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00791	0.0056	0.033	—	pCi/L	Y	U	U	09-3202	CAPA-09-12149	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00672	0.0602	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00903	0.00796	0.0397	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0108	0.011	0.052	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00411	0.0053	0.03	—	pCi/L	Y	U	U	10-2220	CAPA-10-12788	GELC
03-B-13	21.5	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-9.42E-10	0.0056	0.032	—	pCi/L	Y	U	U	09-3202	CAPA-09-12149	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.4	—	—	0.05	mg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.55	—	—	0.05	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.3	—	—	0.05	mg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.9	19.4	71.8	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.9	19.4	77.1	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.6	20	70	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	03/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	32.9	9.9	37	—	pCi/L	Y	U	U	10-2220	CAPA-10-12788	GELC
03-B-13	21.5	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	6.2	18	63	—	pCi/L	Y	U	U	09-3202	CAPA-09-12149	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	45.4	—	—	0.053	mg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	26.4	—	—	0.053	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	17.6	—	—	0.053	mg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	61.8	—	—	0.053	mg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	60.3	—	—	0.053	mg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	23.6	—	—	0.1	mg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	59.3	—	—	0.1	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	75.4	—	—	0.1	mg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	59.7	—	—	0.1	mg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	44	—	—	0.1	mg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.899	1.63	6.55	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.02	1.58	5.57	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.14	1.5	4.4	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	03/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.299	0.82	2.6	—	pCi/L	Y	U	U	10-2220	CAPA-10-12788	GELC
03-B-13	21.5	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.973	1.1	4	—	pCi/L	Y	U	U	09-3202	CAPA-09-12149	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND	Y	142	—	—	1	µS/cm	Y	—	NQ	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND	Y	420	—	—	1	µS/cm	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND	Y	566	—	—	1	µS/cm	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND	Y	404	—	—	1	µS/cm	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND	Y	276	—	—	1	µS/cm	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT																	

Table C-2 Pajarito Watershed 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
03-B-13	21.5	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	261	—	—	3.4	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	303	—	—	3.4	mg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	331	—	—	3.4	mg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	240	—	—	3.4	mg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.144	—	—	0.033	mg/L	Y	—	J+	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	10/23/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.276	—	—	0.035	mg/L	Y	—	J+	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0874	—	—	0.035	mg/L	Y	J	J	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	10/21/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.454	—	—	0.035	mg/L	Y	—	NQ	12-146	CAPA-12-1132	GELC
03-B-13	21.5	07/11/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.115	—	—	0.035	mg/L	Y	—	NQ	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.45	—	—	0.33	mg/L	Y	—	NQ	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	10/23/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	9.11	—	—	1.65	mg/L	Y	—	NQ	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.18	—	—	0.33	mg/L	Y	—	J-	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	10/21/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	7.29	—	—	1.7	mg/L	Y	—	NQ	12-146	CAPA-12-1132	GELC
03-B-13	21.5	07/11/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	7.02	—	—	0.33	mg/L	Y	—	NQ	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0207	—	—	0.017	mg/L	Y	J	J	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0567	—	—	0.017	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0396	—	—	0.017	mg/L	Y	J	J	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0877	—	—	0.015	mg/L	Y	—	U	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.117	—	—	0.015	mg/L	Y	—	J	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	48.2	—	—	0.3	µg/L	Y	—	NQ	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	10/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	183	—	—	0.3	µg/L	N	E	R	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	10/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	117	—	—	1.5	µg/L	Y	—	NQ	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	170	—	—	0.3	µg/L	N	E	R	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	04/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	113	—	—	0.6	µg/L	Y	—	NQ	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	10/21/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	194	—	—	0.33	µg/L	N	E	R	12-146	CAPA-12-1132	GELC
03-B-13	21.5	10/21/11	WG	UF	DL	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	176	—	—	1.6	µg/L	Y	—	NQ	12-146	CAPA-12-1132	GELC
03-B-13	21.5	07/11/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	111	—	—	0.33	µg/L	N	E	R	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	07/11/11	WG	UF	DL	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	103	—	—	0.65	µg/L	Y	—	NQ	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.41	—	—	0.3	µg/L	Y	J	J	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	10/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	1.74	—	—	0.3	µg/L	Y	—	NQ	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	10/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	5	—	—	1.5	µg/L	N	U	U	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	1.65	—	—	0.3	µg/L	Y	—	NQ	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	04/23/12	WG	UF	DL	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	1.28	—	—	0.6	µg/L	N	J	J	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	10/21/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	2.21	—	—	0.25	µg/L	Y	—	NQ	12-146	CAPA-12-1132	GELC
03-B-13	21.5	10/21/11	WG	UF	DL	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	1.9	—	—	1.3	µg/L	N	J	J	12-146	CAPA-12-1132	GELC
03-B-13	21.5	07/11/11	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	1.4	—	—	0.25	µg/L	Y	—				

Table C-2 Pajarito Watershed 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
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00923	0.013	0.0397	—	pCi/L	Y	U	U	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00156	0.00685	0.0549	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0144	0.0089	0.04	—	pCi/L	Y	U	U	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0037	0.042	—	pCi/L	Y	U	U	10-2220	CAPA-10-12788	GELC
03-B-13	21.5	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0116	0.012	0.17	—	pCi/L	Y	U	U	09-3202	CAPA-09-12149	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0597	0.0197	0.0517	—	pCi/L	Y	—	NQ	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	04/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0237	0.0115	0.0388	—	pCi/L	Y	U	U	12-1236	CAPA-12-13277	GELC
03-B-13	21.5	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.305	0.037	0.051	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24078	GELC
03-B-13	21.5	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0361	0.011	0.037	—	pCi/L	Y	U	U	10-2220	CAPA-10-12788	GELC
03-B-13	21.5	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.384	0.072	0.2	—	pCi/L	Y	—	J+	09-3202	CAPA-09-12149	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.17	—	—	1	µg/L	Y	J	J	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.05	—	—	1	µg/L	Y	J	J	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.77	—	—	1	µg/L	Y	J	J	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.43	—	—	1	µg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.53	—	—	1	µg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	8.81	—	—	3.3	µg/L	Y	J	J	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	17.1	—	—	3.3	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	17.9	—	—	3.3	µg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	26.8	—	—	3.3	µg/L	Y	—	NQ	12-147	CAPA-12-1129	GELC
03-B-13	21.5	07/11/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	31.6	—	—	3.3	µg/L	Y	—	NQ	11-2783	CAPA-11-22662	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	322	—	—	1	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	531	—	—	1	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	257	—	—	1	µg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	444	—	—	1	µg/L	Y	—	NQ	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	475	—	—	1	µg/L	Y	—	NQ	09-2094	CAPA-09-9331	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	457	—	—	1	µg/L	Y	—	NQ	09-2094	CAPA-09-9329	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	25.1	—	—	15	µg/L	Y	J	J	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.9	—	—	15	µg/L	Y	J	J	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	30.6	—	—	15	µg/L	Y	J	J	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	42.6	—	—	15	µg/L	Y	J	U	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26.7	—	—	10	µg/L	Y	J	J	09-2094	CAPA-09-9331	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	25.9	—	—	10	µg/L	Y	J	J	09-2094	CAPA-09-9329	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	53.8	—	—	0.05	mg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	80.5	—	—	0.05	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	39.8	—	—	0.05	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	68.1	—	—	0.05	mg/L	Y	—	NQ	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT																	

Table C-2 Pajarito Watershed 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
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.1	µg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.21	—	—	0.1	µg/L	Y	—	NQ	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.513	—	—	0.1	µg/L	Y	—	NQ	09-2094	CAPA-09-9331	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.496	—	—	0.1	µg/L	Y	J	J	09-2094	CAPA-09-9329	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	6.56	—	—	0.5	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.26	—	—	0.5	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.89	—	—	0.5	µg/L	Y	J	J	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	4.9	—	—	0.5	µg/L	Y	—	NQ	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.46	—	—	0.5	µg/L	Y	J	J	09-2094	CAPA-09-9331	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.38	—	—	0.5	µg/L	Y	J	J	09-2094	CAPA-09-9329	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.04	—	—	0.05	mg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	8.99	—	—	0.05	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	6.42	—	—	0.05	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.95	—	—	0.05	mg/L	Y	—	NQ	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	7.99	—	—	0.05	mg/L	Y	—	NQ	09-2094	CAPA-09-9331	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	7.6	—	—	0.05	mg/L	Y	—	NQ	09-2094	CAPA-09-9329	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	76.9	—	—	0.1	mg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	143	—	—	0.1	mg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	94.7	—	—	0.1	mg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	110	—	—	0.1	mg/L	Y	—	NQ	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	126	—	—	0.045	mg/L	Y	—	NQ	09-2094	CAPA-09-9331	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	121	—	—	0.045	mg/L	Y	—	NQ	09-2094	CAPA-09-9329	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	390	—	—	1	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	576	—	—	1	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	283	—	—	1	µg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	485	—	—	1	µg/L	Y	—	NQ	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	524	—	—	1	µg/L	Y	—	NQ	09-2094	CAPA-09-9331	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	501	—	—	1	µg/L	Y	—	NQ	09-2094	CAPA-09-9329	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.244	—	—	0.067	µg/L	Y	—	NQ	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.597	—	—	0.067	µg/L	Y	—	NQ	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.252	—	—	0.05	µg/L	Y	—	NQ	10-3872	CAPA-10-24037	GELC
18-MW-18	12.5	09/02/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.18	—	—	0.05	µg/L	Y	—	NQ	09-3117	CAPA-09-12141	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.445	—	—	0.05	µg/L	Y	—	NQ	09-2094	CAPA-09-9331	GELC
18-MW-18	12.5	05/29/09	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.42	—	—	0.05	µg/L	Y	—	NQ	09-2094	CAPA-09-9329	GELC
18-MW-18	12.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.11	—	—	1	µg/L	Y	J	J	2013-760	CAPA-13-29674	GELC
18-MW-18	12.5	04/30/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	12-1254	CAPA-12-13288	GELC
18-MW-18	12.5	07/26/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5	—	—	1	µg/L	Y	U	U	10-3		

Table C-2 Pajarito Watershed 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
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	210	—	—	68	µg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	252	—	—	68	µg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	N	200	—	—	68	µg/L	Y	U	U	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	1020	—	—	68	µg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	185	—	—	68	µg/L	Y	J	NQ	09-485	CAPA-09-1074	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00225	0.00391	0.0394	—	pCi/L	Y	U	U	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000654	0.003	0.039	—	pCi/L	Y	U	U	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.014	0.0049	0.03	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/12/08	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00142	0.011	0.028	—	pCi/L	Y	U	U	08-1933	CAPA-08-14889	GELC
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.000603	0.007	0.043	—	pCi/L	Y	U	UJ	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0546	—	—	0.017	mg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0427	—	—	0.016	mg/L	Y	J	J	11-2316	CAPA-11-9525	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0311	—	—	0.016	mg/L	Y	J	J	11-2316	CAPA-11-9527	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.03	mg/L	Y	U	U	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	59.1	—	—	1	µg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	57.7	—	—	1	µg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	64.5	—	—	1	µg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	58.3	—	—	1	µg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	45.8	—	—	1	µg/L	Y	—	NQ	09-485	CAPA-09-1074	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26	—	—	15	µg/L	Y	J	J	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.2	—	—	15	µg/L	Y	J	J	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	23.8	—	—	15	µg/L	Y	J	U	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	19	—	—	10	µg/L	Y	J	U	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	10	µg/L	Y	U	U	09-485	CAPA-09-1074	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.3	—	—	0.05	mg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.9	—	—	0.05	mg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.1	—	—	0.05	mg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.6	—	—	0.03	mg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.4	—	—	0.03	mg/L	Y	—	NQ	09-485	CAPA-09-1074	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.46	1.21	4.87	—	pCi/L	Y	U	U	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.33	1.2	3.7	—	pCi/L	Y	U	U	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.353	1.3	4.3	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/12/08	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.12	1.9	6.3	—	pCi/L	Y	U	U	08-1933	CAPA-08-14889	GELC
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.6	1.5	4.3	—	pCi/L	Y	U	U	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride</													

Table C-2 Pajarito Watershed 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
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.134	—	—	0.033	mg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.1	0.756	2.47	—	pCi/L	Y	U	U	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.25	0.77	2.4	—	pCi/L	Y	U	U	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.32	1	2.8	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/04/07	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	3.64	0.948	1.86	—	pCi/L	Y	—	J	193146	GU07090PPBF101	GELC
Paj bel S&N Anch E Basin conf	—	06/28/07	WS	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.1	1.04	2.98	—	pCi/L	Y	U	U	188897	GU07060PPBF101	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.92	0.948	2.5	—	pCi/L	Y	—	NQ	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	7.18	1.3	2.6	—	pCi/L	Y	—	NQ	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.86	0.95	3	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/04/07	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	6.74	1.2	2.93	—	pCi/L	Y	—	J	193146	GU07090PPBF101	GELC
Paj bel S&N Anch E Basin conf	—	06/28/07	WS	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.38	1.15	2.94	—	pCi/L	Y	—	J	188897	GU07060PPBF101	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	70	—	—	0.453	mg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.8	—	—	0.35	mg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	77.2	—	—	0.35	mg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.6	—	—	0.35	mg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.5	—	—	0.35	mg/L	Y	—	NQ	09-485	CAPA-09-1074	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	HMX	2691-41-0	Y	1.72	—	—	0.0825	µg/L	Y	—	NQ	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	HMX	2691-41-0	Y	3.14	—	—	0.1	µg/L	Y	—	NQ	11-2316	CAPA-11-9524	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	UF	INIT	FD	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	HMX	2691-41-0	Y	3.15	—	—	0.1	µg/L	Y	—	NQ	11-2316	CAPA-11-9526	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	HMX	2691-41-0	Y	2.11	—	—	0.1	µg/L	Y	—	NQ	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	03/10/10	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	HMX	2691-41-0	Y	3.9	—	—	0.026	µg/L	Y	—	NQ	10-2411	CAPA-10-12694	STSL
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	HMX	2691-41-0	Y	1.87	—	—	0.1	µg/L	Y	—	NQ	09-3235	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	140	—	—	30	µg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	175	—	—	30	µg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	63	—	—	30	µg/L	Y	J	J	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	513	—	—	25	µg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	116	—	—	25	µg/L	Y	—	NQ	09-485	CAPA-09-1074	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.29	—	—	0.11	mg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.86	—	—	0.085	mg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.97	—	—	0.085	mg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.79	—	—	0.085	mg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.17	—	—	0.085	mg/L	Y	—	NQ	09-485	CAPA-09-1074	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.43	—	—	0.165	µg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.782	—	—	0.1	µg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.941	—	—	0.1	µg/L	Y	—	U	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.5	—	—	0.1	µg/L	Y	—	U	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.5	—	—	0.1							

Table C-2 Pajarito Watershed 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
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0919	—	—	0.01	mg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.427	—	—	0.05	µg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.586	—	—	0.05	µg/L	Y	—	NQ	11-2316	CAPA-11-9525	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.581	—	—	0.05	µg/L	Y	—	NQ	11-2316	CAPA-11-9527	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.511	—	—	0.05	µg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.47	—	—	0.05	µg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.304	—	—	0.05	µg/L	Y	—	J	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0047	0.0366	—	pCi/L	Y	U	U	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0158	0.006	0.026	—	pCi/L	Y	U	U	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00343	0.0034	0.029	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00189	0.0027	0.026	—	pCi/L	Y	U	U	08-1933	CAPA-08-14889	GELC
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00887	0.007	0.026	—	pCi/L	Y	U	U	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0047	0.0047	0.0357	—	pCi/L	Y	U	U	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00451	0.0064	0.044	—	pCi/L	Y	U	U	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00172	0.0024	0.028	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00756	0.0046	0.032	—	pCi/L	Y	U	U	08-1933	CAPA-08-14889	GELC
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00886	0.0054	0.036	—	pCi/L	Y	U	U	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.31	—	—	0.05	mg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.08	—	—	0.05	mg/L	Y	—	J	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.55	—	—	0.05	mg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.87	—	—	0.05	mg/L	Y	E	J	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.46	—	—	0.05	mg/L	Y	—	NQ	09-485	CAPA-09-1074	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-31.4	15.9	54.4	—	pCi/L	Y	U	U	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	38.5	17	67	—	pCi/L	Y	U	U	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.8	15	56	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/12/08	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-1.5	35	98	—	pCi/L	Y	U	U	08-1933	CAPA-08-14889	GELC
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-7.84	20	64	—	pCi/L	Y	U	U	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	RDX	121-82-4	Y	2.08	—	—	0.0825	µg/L	Y	—	NQ	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	RDX	121-82-4	Y	4.56	—	—	0.1	µg/L	Y	—	NQ	11-2316	CAPA-11-9524	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	UF	INIT	FD	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	RDX	121-82-4	Y	4.22	—	—	0.1	µg/L	Y	—	NQ	11-2316	CAPA-11-9526	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	RDX	121-82-4	Y	1.87	—	—	0.1	µg/L	Y	—	J	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	03/10/10	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	RDX	121-82-4	Y	3	—	—	0.059	µg/L	Y	—	J-	10-2411	CAPA-10-12694	STSL
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	LCMS/MS HIGH EXPLOSIVES	SW-846:8321A_MOD	RDX	121-82-4	Y	1.94	—	—	0.1	µg/L	Y	—	NQ	09-3235	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	43.4	—	—	0.053	mg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.9	—	—	0.053	mg/L	Y	—	NQ	11-2316	CAPA-11-9525	GELC
Paj bel S&N Anch E Basin conf	—	05/05/																				

Table C-2 Pajarito Watershed 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
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND_C	Y	239	—	—	1	µS/cm	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND_C	Y	259	—	—	1	µS/cm	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND_C	Y	209	—	—	1	µS/cm	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	117	—	—	1	µg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	112	—	—	1	µg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	133	—	—	1	µg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	101	—	—	1	µg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.243	0.149	0.492	—	pCi/L	Y	U	U	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.118	0.14	0.49	—	pCi/L	Y	U	U	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00272	0.11	0.38	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/12/08	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.359	0.14	0.4	—	pCi/L	Y	U	U	08-1933	CAPA-08-14889	GELC
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0253	0.13	0.49	—	pCi/L	Y	U	U	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.75	—	—	0.133	mg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	14.4	—	—	0.1	mg/L	Y	—	NQ	11-2316	CAPA-11-9525	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	14.1	—	—	0.1	mg/L	Y	—	NQ	11-2316	CAPA-11-9527	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.6	—	—	0.1	mg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.94	—	—	0.1	mg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	NQ	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	204	—	—	2.4	mg/L	Y	—	J	11-2316	CAPA-11-9525	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	205	—	—	2.4	mg/L	Y	—	J	11-2316	CAPA-11-9527	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	188	—	—	2.4	mg/L	Y	—	NQ	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	173	—	—	2.4	mg/L	Y	—	NQ	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	2.4	mg/L	Y	—	NQ	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.336	—	—	0.033	mg/L	Y	—	NQ	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.109	—	—	0.035	mg/L	Y	—	J+	11-2316	CAPA-11-9524	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.152	—	—	0.035	mg/L	Y	—	J+	11-2316	CAPA-11-9526	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.179	—	—	0.033	mg/L	Y	—	J	11-95	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.516	—	—	0.033	mg/L	Y	—	NQ	09-3235	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.234	—	—	0.029	mg/L	Y	—	U	09-1140	CAPA-09-4059	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.24	—	—	0.33	mg/L	Y	—	NQ	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.04	—	—	0.33	mg/L	Y	—	NQ	11-2316	CAPA-11-9524	GELC
Paj bel S&N Anch E Basin conf	—	05/05/11	WS	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.06	—	—	0.33	mg/L	Y	—	NQ	11-2316	CAPA-11-9526	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.39	—	—	0.33	mg/L	Y	—	J	11-95	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.8	—	—	0.33	mg/L	Y	—	NQ	09-3235	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	4.12	—	—	0.33	mg/L	Y	—	J	09-1140	CAPA-09-4059	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0571	—	—	0.017	mg/L						

Table C-2 Pajarito Watershed 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
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	N	0.0421	0.011	0.1	—	pCi/L	Y	U	U	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00683	0.00683	0.0415	—	pCi/L	Y	U	U	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0155	0.006	0.023	—	pCi/L	Y	U	U	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0113	0.008	0.041	—	pCi/L	Y	U	U	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0134	0.006	0.04	—	pCi/L	Y	U	U	08-1933	CAPA-08-14889	GELC
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00347	0.0078	0.052	—	pCi/L	Y	U	U	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.102	0.0177	0.038	—	pCi/L	Y	—	J	2013-724	CAPA-13-29664	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.111	0.016	0.018	—	pCi/L	Y	—	NQ	11-94	CAPA-10-26874	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0866	0.016	0.049	—	pCi/L	Y	—	NQ	09-3236	CAPA-09-12075	GELC
Paj bel S&N Anch E Basin conf	—	09/12/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0758	0.015	0.039	—	pCi/L	Y	—	NQ	08-1933	CAPA-08-14889	GELC
Paj bel S&N Anch E Basin conf	—	06/10/08	WS	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0449	0.013	0.061	—	pCi/L	Y	U	U	08-1326	CAPA-08-13033	GELC
Paj bel S&N Anch E Basin conf	—	04/12/13	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.14	—	—	1	µg/L	Y	J	J	2013-724	CAPA-13-29675	GELC
Paj bel S&N Anch E Basin conf	—	10/08/10	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.8	—	—	1	µg/L	Y	J	J	11-95	CAPA-10-26873	GELC
Paj bel S&N Anch E Basin conf	—	09/15/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.11	—	—	1	µg/L	Y	J	J	09-3236	CAPA-09-12074	GELC
Paj bel S&N Anch E Basin conf	—	03/06/09	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.2	—	—	1	µg/L	Y	J	J	09-1141	CAPA-09-4058	GELC
Paj bel S&N Anch E Basin conf	—	12/10/08	WS	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.1	—	—	1	µg/L	Y	J	NQ	09-485	CAPA-09-1074	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.33	—	—	0.01	SU	Y	H	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.44	—	—	0.01	SU	Y	H	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.81	—	—	0.01	SU	Y	H	J-	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.69	—	—	0.01	SU	Y	H	J-	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.46	—	—	0.01	SU	Y	H	J-	11-108	CAPA-10-26959	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.9	—	—	0.725	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.6	—	—	0.725	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.6	—	—	0.73	mg/L	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	52.9	—	—	0.73	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	49	—	—	0.73	mg/L	Y	—	NQ	11-108	CAPA-10-26959	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00632	0.00699	0.0368	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0212	0.0959	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00662	0.0046	0.041	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0152	0.011	0.042	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00765	0.0038	0.026	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00578	0.003	0.021	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00285	0.003	0.036	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0525	—	—	0.017	mg/L	Y	—	J	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0403	—	—	0.017	mg/L	Y	J	J	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05										

Table C-2 Pajarito Watershed 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
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.476	1.3	4.1	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0193	1.2	3.9	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.598	1.2	3.9	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.84	1.9	6.2	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.697	0.6	1.9	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-)	Y	1.41	—	—	0.067	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-)	Y	1.45	—	—	0.067	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-)	Y	1.4	—	—	0.066	mg/L	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-)	Y	1.48	—	—	0.066	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-)	Y	1.45	—	—	0.066	mg/L	Y	—	NQ	11-108	CAPA-10-26959	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.979	1.28	5.4	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.13	1.57	6.88	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.655	1.4	4.6	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0235	1.3	4.2	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.125	1.3	4.1	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.15	1.5	5.5	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.08	0.68	2.4	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-)	Y	0.219	—	—	0.033	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-)	Y	0.205	—	—	0.033	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-)	Y	0.188	—	—	0.033	mg/L	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-)	Y	0.215	—	—	0.033	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-)	Y	0.171	—	—	0.033	mg/L	Y	—	NQ	11-108	CAPA-10-26959	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.226	0.609	2.63	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.13	0.861	2.98	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.96	0.88	2.2	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.572	0.57	2.2	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.588	0.65	2.4	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.56	0.58	2.1	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.349	0.69	2.7	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.5	0.79	2.58	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.0664	0.574	2.23	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.693	0.71	2.5	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.68	0.85	2.6	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.185	0.7	2.4	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.553	0.85	2.9	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.0773	0.65	2.5	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.8	—	—	0.453	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.4	—	—	0.453	mg/L	Y	—	NQ	12-1		

Table C-2 Pajarito Watershed 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
PCI-2	512	08/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.829	—	—	0.1	µg/L	Y	—	NQ	10-3957	CAPA-10-24133	GELC
PCI-2	512	08/02/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.832	—	—	0.1	µg/L	Y	—	NQ	10-3957	CAPA-10-24135	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.54	2.36	9.08	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.94	2.69	9.9	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.78	2.5	8.6	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.997	2.4	7	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.45	2.8	9.2	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.08	3.1	11	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-7.58	4.6	14	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.102	—	—	0.017	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.155	—	—	0.085	mg/L	Y	J	J	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.14	—	—	0.05	mg/L	Y	J	J	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.067	—	—	0.01	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.117	—	—	0.05	mg/L	Y	J	J	11-108	CAPA-10-26959	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00835	0.00835	0.065	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00272	0.00472	0.0423	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00222	0.0031	0.02	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00256	0.0036	0.023	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00649	0.0048	0.033	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0152	0.0084	0.025	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00907	0.0099	0.042	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00835	0.00835	0.0634	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00545	0.00545	0.0359	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00665	0.0044	0.032	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00512	0.0051	0.037	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00433	0.0061	0.03	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0101	0.0042	0.023	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00113	0.0037	0.029	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.292	—	—	0.05	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.317	—	—	0.05	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.298	—	—	0.05	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.323	—	—	0.05	mg/L	Y	—	NQ	11-108	CAPA-10-26959	GELC
PCI-2	512	08/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.372	—	—	0.05	mg/L	Y	—	NQ	10-3957	CAPA-10-24133	GELC
PCI-2	512	08/02/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	0.32	—	—	0.05	mg/L	Y	—	NQ	10-3957	CAPA-10-24135	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22.5	16.2	61	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-30.2	16.4	59.2	—	pCi/L	Y	U	U	12		

Table C-2 Pajarito Watershed 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
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.308	1.31	4.87	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.2	1.22	4.75	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.411	1.3	4.1	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.282	1.1	3.7	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.789	1.3	4.5	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.08	1.6	5.8	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.368	0.59	1.8	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	112	—	—	1	µS/cm	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	108	—	—	1	µS/cm	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	104	—	—	1	µS/cm	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	113	—	—	1	µS/cm	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	106	—	—	1	µS/cm	Y	—	NQ	11-108	CAPA-10-26959	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48	—	—	1	µg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.2	—	—	1	µg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.6	—	—	1	µg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50	—	—	1	µg/L	Y	—	NQ	11-108	CAPA-10-26959	GELC
PCI-2	512	08/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.1	—	—	1	µg/L	Y	—	NQ	10-3957	CAPA-10-24133	GELC
PCI-2	512	08/02/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.1	—	—	1	µg/L	Y	—	NQ	10-3957	CAPA-10-24135	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.166	0.118	0.399	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.25	0.147	0.485	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.189	0.11	0.49	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.153	0.14	0.49	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.167	0.12	0.49	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.214	0.13	0.44	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.294	0.11	0.47	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.71	—	—	0.133	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.7	—	—	0.133	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.58	—	—	0.1	mg/L	Y	—	J+	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.73	—	—	0.1	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	N	1.67	—	—	0.1	mg/L	Y	—	U	11-108	CAPA-10-26959	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	78.6	—	—	3.4	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	2.4	mg/L	Y	—	J	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	2.4	mg/L	Y	—	NQ	11-108	CAPA-10-26959	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.48	—	—	0.33	mg/L	Y	J	J	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.361	—	—	0.33	mg/L	Y	J	J-	12-1241	CAPA-12-13281	GELC
PCI-2	512	07/22/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L</						

Table C-2 Pajarito Watershed 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
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.366	—	—	0.067	µg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.352	—	—	0.067	µg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.332	—	—	0.05	µg/L	Y	—	U	11-108	CAPA-10-26959	GELC
PCI-2	512	08/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.383	—	—	0.05	µg/L	Y	—	NQ	10-3957	CAPA-10-24133	GELC
PCI-2	512	08/02/10	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.377	—	—	0.05	µg/L	Y	—	NQ	10-3957	CAPA-10-24135	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.213	0.0251	0.066	—	pCi/L	Y	—	NQ	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.147	0.0333	0.105	—	pCi/L	Y	—	NQ	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.229	0.039	0.12	—	pCi/L	Y	—	NQ	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.183	0.03	0.11	—	pCi/L	Y	—	NQ	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.151	0.026	0.071	—	pCi/L	Y	—	NQ	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.153	0.023	0.058	—	pCi/L	Y	—	NQ	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.21	0.031	0.055	—	pCi/L	Y	—	NQ	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00998	0.0088	0.0405	—	pCi/L	Y	U	U	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00712	0.0743	—	pCi/L	Y	U	U	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0105	0.011	0.058	—	pCi/L	Y	U	U	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00965	0.0069	0.053	—	pCi/L	Y	U	U	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0161	0.0081	0.048	—	pCi/L	Y	U	U	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0131	0.0066	0.039	—	pCi/L	Y	U	U	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00773	0.0055	0.043	—	pCi/L	Y	U	U	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.102	0.0174	0.037	—	pCi/L	Y	—	NQ	2013-728	CAPA-13-29666	GELC
PCI-2	512	04/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0921	0.0257	0.0524	—	pCi/L	Y	—	NQ	12-1241	CAPA-12-13281	GELC
PCI-2	512	08/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.161	0.029	0.074	—	pCi/L	Y	—	NQ	10-3958	CAPA-10-24132	GELC
PCI-2	512	08/02/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.14	0.026	0.068	—	pCi/L	Y	—	NQ	10-3958	CAPA-10-24136	GELC
PCI-2	512	06/07/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0944	0.02	0.053	—	pCi/L	Y	—	NQ	10-3330	CAPA-10-17850	GELC
PCI-2	512	06/07/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.111	0.02	0.043	—	pCi/L	Y	—	NQ	10-3330	CAPA-10-17852	GELC
PCI-2	512	03/01/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.11	0.021	0.039	—	pCi/L	Y	—	NQ	10-2226	CAPA-10-12892	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.58	—	—	1	µg/L	Y	J	J	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.38	—	—	1	µg/L	Y	J	J	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.58	—	—	1	µg/L	Y	J	J	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/11/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.61	—	—	1	µg/L	Y	J	J	11-108	CAPA-10-26959	GELC
PCI-2	512	08/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.21	—	—	1	µg/L	Y	J	J	10-3957	CAPA-10-24133	GELC
PCI-2	512	08/02/10	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.16	—	—	1	µg/L	Y	J	J	10-3957	CAPA-10-24135	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	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	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	12-1274	CAPA-12-13308	GELC

Table C-2 Pajarito Watershed 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-17 S1	1057	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.000458	0.0034	0.043	—	pCi/L	Y	U	U	09-3206	CAPA-09-12163	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.182	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0429	—	—	0.017	mg/L	Y	J	J	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.107	—	—	0.017	mg/L	Y	—	U	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.03	—	—	0.017	mg/L	Y	J	U	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2953	CAPA-11-22872	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UU	11-1160	CAPA-11-2983	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	1.81	—	—	1.7	µg/L	Y	J	J	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.5	µg/L	Y	U	U	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	37.4	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.9	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	38.8	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	38.4	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.9	—	—	1	µg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	39.4	—	—	1	µg/L	Y	—	NQ	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	37.5	—	—	1	µg/L	Y	—	NQ	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.96	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.2	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.1	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.8	—	—	0.05	mg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10	—	—	0.05	mg/L	Y	—	NQ	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.82	—	—	0.05	mg/L	Y	—	NQ	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.69	1.4	5.06	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.835	1.63	6.03	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.04	1.59	5.4	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.71	1.78	6.98	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.31	1.6	4.5	—	pCi/L	Y	U	U	10-4002	CAPA-10-24093	GELC
R-17 S1	1057	03/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.517	1.2	4	—	pCi/L	Y	U	U	10-2375	CAPA-10-12798	GELC
R-17 S1	1057	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.593	1.1	3.6	—	pCi/L	Y	U	U	09-3206	CAPA-09-12163	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.96	—	—	0.067	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	

Table C-2 Pajarito Watershed 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-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.211	—	—	0.033	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.221	—	—	0.033	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.197	—	—	0.033	mg/L	Y	—	NQ	11-2953	CAPA-11-22872	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.196	—	—	0.033	mg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.173	—	—	0.033	mg/L	Y	—	NQ	11-1160	CAPA-11-2983	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.58	0.792	2.3	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	Y	3.05	1	1.88	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.602	0.571	2.09	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.129	0.46	2	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.06	0.73	2.4	—	pCi/L	Y	U	U	10-4002	CAPA-10-24093	GELC
R-17 S1	1057	09/11/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.22	0.95	2.4	—	pCi/L	Y	U	U	09-3206	CAPA-09-12163	GELC
R-17 S1	1057	09/18/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.623	0.425	1.28	—	pCi/L	Y	U	U	194131	GU07080GR17101	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.854	0.876	2.97	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.33	0.91	2.84	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.914	0.753	2.54	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.46	0.939	2.97	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.4	0.75	2.2	—	pCi/L	Y	—	NQ	10-4002	CAPA-10-24093	GELC
R-17 S1	1057	09/11/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.45	0.71	2.2	—	pCi/L	Y	U	U	09-3206	CAPA-09-12163	GELC
R-17 S1	1057	09/18/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.75	0.912	2.92	—	pCi/L	Y	U	U	194131	GU07080GR17101	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.3	—	—	0.453	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36.8	—	—	0.453	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.1	—	—	0.453	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.4	—	—	0.453	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	33.7	—	—	0.45	mg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36.7	—	—	0.35	mg/L	Y	—	NQ	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	36.4	—	—	0.35	mg/L	Y	—	NQ	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	82.7	—	—	30	µg/L	Y	J	J	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	Y	81.9	—	—	30	µg/L	Y	J	J	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	67.8	—	—	30	µg/L	Y	J	J	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Iron	Fe	Y	66.9	—	—	30	µg/L	Y	J	J	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	55.5	—	—	30	µg/L	Y	J	J	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.96	—	—	0.11	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.89	—	—	0.11	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.05	—	—	0.11	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.98	—	—	0.11	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg</												

Table C-2 Pajarito Watershed 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-17 S1	1057	03/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-15.9	11	34	—	pCi/L	Y	U	U	10-2375	CAPA-10-12798	GELC
R-17 S1	1057	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.05	8	25	—	pCi/L	Y	U	U	09-3206	CAPA-09-12163	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.13	—	—	0.5	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.19	—	—	0.5	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.84	—	—	0.5	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.69	—	—	0.5	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.667	—	—	0.5	µg/L	Y	J	J	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.895	—	—	0.5	µg/L	Y	J	J	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.172	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.176	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.297	—	—	0.17	mg/L	Y	J	J	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.248	—	—	0.085	mg/L	Y	J	J	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.238	—	—	0.05	mg/L	Y	J	J-	11-2953	CAPA-11-22872	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.281	—	—	0.1	mg/L	Y	J	J	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.183	—	—	0.05	mg/L	Y	J	J	11-1160	CAPA-11-2983	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.252	—	—	0.05	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.247	—	—	0.05	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.268	—	—	0.05	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.268	—	—	0.05	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	07/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.244	—	—	0.05	µg/L	Y	—	NQ	11-2953	CAPA-11-22872	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.259	—	—	0.05	µg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	01/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.278	—	—	0.05	µg/L	Y	—	NQ	11-1160	CAPA-11-2983	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00351	0.00784	0.0521	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00378	0.0397	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00946	0.0465	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0106	0.0106	0.0413	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00435	0.0053	0.019	—	pCi/L	Y	U	U	10-4002	CAPA-10-24093	GELC
R-17 S1	1057	03/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0209	0.0067	0.036	—	pCi/L	Y	U	U	10-2375	CAPA-10-12798	GELC
R-17 S1	1057	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0045	0.0039	0.038	—	pCi/L	Y	U	U	09-3206	CAPA-09-12163	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00701	0.0628	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00534	0.0479	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00299	0.00299	0.0394	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00266	0.0046	0.035	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00652	0.0058	0.032	—	pCi/L	Y	U	U	10-4002	CAPA-10-24093	GELC
R-17 S1	1057	03/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plut													

Table C-2 Pajarito Watershed 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-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.5	—	—	0.053	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.2	—	—	0.053	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.3	—	—	0.053	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	NQ	11-2953	CAPA-11-22872	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.4	—	—	0.053	mg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	01/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	79.6	—	—	0.053	mg/L	Y	—	NQ	11-1160	CAPA-11-2983	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.9	—	—	0.1	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.9	—	—	0.1	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.78	1.26	3.96	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.427	1.32	5.29	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.94	1.65	7.28	—	pCi/L	Y	U	U	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.81	1.69	5.77	—	pCi/L	Y	U	U	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.866	1.8	5.5	—	pCi/L	Y	U	U	10-4002	CAPA-10-24093	GELC
R-17 S1	1057	03/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.766	0.99	3.6	—	pCi/L	Y	U	U	10-2375	CAPA-10-12798	GELC
R-17 S1	1057	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0164	0.93	3.1	—	pCi/L	Y	U	U	09-3206	CAPA-09-12163	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND C	Y	124	—	—	1	µS/cm	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND C	Y	125	—	—	1	µS/cm	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND C	Y	125	—	—	1	µS/cm	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND C	Y	124	—	—	1	µS/cm	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND C	Y	119	—	—	1	µS/cm	Y	—	NQ	11-2953	CAPA-11-22872	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND C	Y	114	—	—	1	µS/cm	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_COND C	Y	122	—	—	1	µS/cm	Y	—	NQ	11-1160	CAPA-11-2983	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.1	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	43.7	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.7	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.3	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	41.1	—	—	1	µg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.5	—	—	1	µg/L	Y	—	NQ	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	42.9	—	—	1	µg/L	Y	—	NQ	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.405	0.158	0.486	—	pCi/L	Y	U	U	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.327	0.118	0.496	—	pCi/L	Y	U	U	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.184	0.127	0.452	—	pCi/L	Y	U	U	12-1274	CAPA-1	

Table C-2 Pajarito Watershed 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-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	70	—	—	3.4	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130	—	—	3.4	mg/L	Y	—	J	11-2953	CAPA-11-22872	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	2.4	mg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	2.4	mg/L	Y	—	NQ	11-1160	CAPA-11-2983	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.22	—	—	0.33	mg/L	Y	—	NQ	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.25	—	—	0.33	mg/L	Y	—	NQ	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.54	—	—	0.33	mg/L	Y	J	J	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.442	—	—	0.33	mg/L	Y	J	J	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2953	CAPA-11-22871	GELC
R-17 S1	1057	04/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2212	CAPA-11-9288	GELC
R-17 S1	1057	01/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.753	—	—	0.33	mg/L	Y	J	J	11-1160	CAPA-11-2982	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0632	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0595	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0663	—	—	0.017	mg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.102	—	—	0.017	mg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0549	—	—	0.015	mg/L	Y	—	U	11-2953	CAPA-11-22872	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0551	—	—	0.015	mg/L	Y	—	U	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.024	—	—	0.015	mg/L	Y	J	U	11-1160	CAPA-11-2983	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.108	0.629	2.138	—	pCi/L	Y	U	U	2013-791	CAPA-13-29667	ARSL
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.56	0.644	2.137	—	pCi/L	Y	U	U	2013-791	CAPA-13-29651	ARSL
R-17 S1	1057	07/27/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.4812	0.7084	2.3506	—	pCi/L	Y	U	U	11-3020	CAPA-11-22871	ARSL
R-17 S1	1057	04/27/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.0608	0.805	2.7048	—	pCi/L	Y	U	U	11-2264	CAPA-11-9288	ARSL
R-17 S1	1057	10/22/10	WG	UF	RE	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.1932	0.6762	2.254	—	pCi/L	Y	U	U	11-304	CAPA-10-26961	ARSL
R-17 S1	1057	10/22/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.8676	0.7084	2.1574	—	pCi/L	N	U	R	11-304	CAPA-10-26961	ARSL
R-17 S1	1057	03/08/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.644	0.2898	0.2898	—	pCi/L	Y	—	U	10-2383	CAPA-10-12798	UMTL
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.494	—	—	0.067	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.496	—	—	0.067	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.509	—	—	0.067	µg/L	Y	—	NQ	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.493	—	—	0.067	µg/L	Y	—	NQ	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.44	—	—	0.067	µg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.502	—	—	0.05	µg/L	Y	—	NQ	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.63	—	—	0.05	µg/L	Y	—	NQ	10-3404	CAPA-10-17589	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.339	0.0277	0.0505	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29667	GELC
R-17 S1	1057	04/25/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.337	0.0348	0.0751	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29651	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.291	0.0364	0.0644	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13282	GELC
R-17 S1	1057	05/02/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.27	0.0369	0.0832	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13307	GELC
R-17 S1	1057	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234												

Table C-2 Pajarito Watershed 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-17 S1	1057	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.188	0.028	0.065	—	pCi/L	Y	—	NQ	09-3206	CAPA-09-12163	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.77	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29678	GELC
R-17 S1	1057	04/25/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.28	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29652	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.99	—	—	1	µg/L	Y	J	J	12-1274	CAPA-12-13292	GELC
R-17 S1	1057	05/02/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.9	—	—	1	µg/L	Y	J	J	12-1274	CAPA-12-13308	GELC
R-17 S1	1057	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.72	—	—	1	µg/L	Y	—	NQ	11-2212	CAPA-11-9287	GELC
R-17 S1	1057	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.62	—	—	1	µg/L	Y	J	J	11-243	CAPA-10-26962	GELC
R-17 S1	1057	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.9	—	—	1	µg/L	Y	J	J	10-3404	CAPA-10-17589	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.89	—	—	0.01	SU	Y	H	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	J-	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.86	—	—	0.01	SU	Y	H	J-	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	J-	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.98	—	—	0.01	SU	Y	H	J-	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO ₃ +HCO ₃	ALK-CO ₃ +HCO ₃	Y	55.3	—	—	0.725	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO ₃ +HCO ₃	ALK-CO ₃ +HCO ₃	Y	52.3	—	—	0.725	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO ₃ +HCO ₃	ALK-CO ₃ +HCO ₃	Y	53.3	—	—	0.73	mg/L	Y	—	NQ	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO ₃ +HCO ₃	ALK-CO ₃ +HCO ₃	Y	57.5	—	—	0.73	mg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO ₃ +HCO ₃	ALK-CO ₃ +HCO ₃	Y	53.8	—	—	0.73	mg/L	Y	—	NQ	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO ₃ +HCO ₃	ALK-CO ₃ +HCO ₃	Y	54.3	—	—	0.73	mg/L	Y	—	NQ	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00375	0.0513	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00563	0.0154	0.0675	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00424	0.0028	0.039	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	03/08/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.000393	0.0026	0.025	—	pCi/L	Y	U	U	10-2375	CAPA-10-12801	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00186	0.0024	0.042	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH ₃ -N	Y	0.0716	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH ₃ -N	N	0.0798	—	—	0.017	mg/L	Y	—	U	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH ₃ -N	N	0.024	—	—	0.016	mg/L	Y	J	U	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH ₃ -N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH ₃ -N	Y	0.019	—	—	0.016	mg/L	Y	J	J-	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH ₃ -N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.7	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.9	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	38.1	—	—	1	µg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	32.1	—	—	1	µg/L	Y	—	NQ	11-243	CAPA-10-26964	GELC
R-17 S2	1124	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y											

Table C-2 Pajarito Watershed 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-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.1	—	—	2	µg/L	Y	J	J	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.99	—	—	2	µg/L	Y	J	J	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.41	—	—	2.5	µg/L	Y	J	J	11-243	CAPA-10-26964	GELC
R-17 S2	1124	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.1	—	—	2.5	µg/L	Y	J	J	10-3404	CAPA-10-17590	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.2	1.45	5.07	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.27	1.72	6.72	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.33	1.8	5.5	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	03/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.46	1.2	3	—	pCi/L	Y	U	U	10-2375	CAPA-10-12801	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.109	1.2	4	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.153	—	—	0.033	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.188	—	—	0.033	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.177	—	—	0.033	mg/L	Y	—	NQ	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.227	—	—	0.033	mg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.162	—	—	0.033	mg/L	Y	—	NQ	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.186	—	—	0.033	mg/L	Y	—	NQ	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.83	0.983	2.19	—	pCi/L	Y	—	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.11	0.874	2.25	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.685	0.72	2.6	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.938	0.68	2.2	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	09/18/07	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.421	0.354	1.14	—	pCi/L	Y	U	U	194131	GU07080GR17201	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.86	0.957	2.99	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.83	0.874	2.69	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.1	0.77	2.3	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.55	1.3	3.8	—	pCi/L	Y	—	NQ	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	09/18/07	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.23	1.05	3.11	—	pCi/L	Y	—	J	194131	GU07080GR17201	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.1	—	—	0.453	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.2	—	—	0.453	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.3	—	—	0.45	mg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	10/22/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.2	—	—	0.35	mg/L	Y	—	NQ	11-243	CAPA-10-26964	GELC
R-17 S2	1124	06/14/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.8	—	—	0.35	mg/L	Y	—	NQ	10-3404	CAPA-10-17590	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.88	—	—	0.11	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.03	—	—	0.11	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.92	—	—	0.11	mg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.85	—	—	0.085	mg/L	Y	—	NQ	11-243	CAPA-10-26964	GELC
R-17 S2	1124	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.97	—	—	0.085	mg/L	Y	—	NQ	10-3404	CAPA-10-17590	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGAN															

Table C-2 Pajarito Watershed 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-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	326	—	—	8.5	mg/L	N	—	R	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.472	—	—	0.085	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.351	—	—	0.05	mg/L	Y	—	J-	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.147	—	—	0.1	mg/L	Y	J	J	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.299	—	—	0.05	mg/L	Y	—	NQ	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.31	—	—	0.05	mg/L	Y	—	NQ	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.247	—	—	0.05	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.286	—	—	0.05	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.257	—	—	0.05	µg/L	Y	—	NQ	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.26	—	—	0.05	µg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.269	—	—	0.05	µg/L	Y	—	NQ	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	CIO4	Y	0.265	—	—	0.05	µg/L	Y	—	NQ	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00333	0.00882	0.0495	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00338	0.0122	0.0525	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00994	0.0053	0.018	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	03/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0328	0.0097	0.038	—	pCi/L	Y	U	U	10-2375	CAPA-10-12801	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00268	0.0038	0.045	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00333	0.00577	0.0597	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00676	0.0445	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00199	0.0053	0.029	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	03/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0153	0.0073	0.026	—	pCi/L	Y	U	U	10-2375	CAPA-10-12801	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00535	0.0066	0.043	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.45	—	—	0.05	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.57	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.66	—	—	0.05	mg/L	Y	—	J	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.33	—	—	0.05	mg/L	Y	—	NQ	11-243	CAPA-10-26964	GELC
R-17 S2	1124	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.39	—	—	0.05	mg/L	Y	—	NQ	10-3404	CAPA-10-17590	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	9.65	19.4	55.3	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.91	16.7	67.5	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-28	22	73	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	03/08/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.1	16	55	—	pCi/L	Y	U	U	10-2375	CAPA-10-12801	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.6	13	42	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.6	—	—	0.053	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.6	—	—	0.053	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.3	—	—	0.053	mg/L	Y	—	NQ	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.5										

Table C-2 Pajarito Watershed 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-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.24	1	3.1	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	1	µS/cm	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	1	µS/cm	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	111	—	—	1	µS/cm	Y	—	NQ	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	µS/cm	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	114	—	—	1	µS/cm	Y	—	NQ	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	113	—	—	1	µS/cm	Y	—	NQ	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	42.5	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	43.6	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	43.7	—	—	1	µg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	42.7	—	—	1	µg/L	Y	—	NQ	11-243	CAPA-10-26964	GELC
R-17 S2	1124	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	43.1	—	—	1	µg/L	Y	—	NQ	10-3404	CAPA-10-17590	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.000834	0.131	0.489	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.4	0.143	0.461	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.078	0.099	0.42	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	03/08/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0976	0.14	0.49	—	pCi/L	Y	U	U	10-2375	CAPA-10-12801	GELC
R-17 S2	1124	09/11/09	WG	UF	RE	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0172	0.13	0.5	—	pCi/L	N	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	2.52	0.28	0.4	—	pCi/L	Y	—	NQ	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	—	—	0.133	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.78	—	—	0.133	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.74	—	—	0.1	mg/L	Y	—	NQ	11-2953	CAPA-11-22875	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.16	—	—	0.1	mg/L	Y	J+	11-2212	CAPA-11-9291	GELC	
R-17 S2	1124	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.74	—	—	0.1	mg/L	Y	—	NQ	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.72	—	—	0.1	mg/L	Y	—	NQ	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	J	11-2953	CAPA-11-22875	GELC	
R-17 S2	1124	04/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130	—	—	2.4	mg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	2.4	mg/L	Y	—	NQ	11-1157	CAPA-11-2986	GELC
R-17 S2	1124	01/20/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	2.4	mg/L	Y	—	NQ	11-1157	CAPA-11-2989	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.753	—	—	0.33	mg/L	Y	J	J	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2953	CAPA-11-22876	GELC
R-17 S2	1124	04/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.491	—	—	0.33	mg/L	Y	J	J	11-2212	CAPA-11-9289	GELC
R-17 S2	1124	01/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.37	—	—	0.33	mg/L	Y	J	J	11-1157	CAPA-11-2984	GELC
R-17 S2	1124	01/20/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.403	—	—	0.33	mg/L	Y	J	J	11-1157	CAPA-11-2988	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0665	—	—	0.017	mg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT</																	

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Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0182	0.0105	0.0262	—	pCi/L	Y	U	U	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0197	0.0147	0.0417	—	pCi/L	Y	U	U	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00438	0.0076	0.049	—	pCi/L	Y	U	U	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	03/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00921	0.0069	0.035	—	pCi/L	Y	U	U	10-2375	CAPA-10-12801	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.015	0.093	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.133	0.0203	0.0341	—	pCi/L	Y	—	NQ	2013-778	CAPA-13-29668	GELC
R-17 S2	1124	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.108	0.0213	0.0294	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13283	GELC
R-17 S2	1124	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.145	0.026	0.062	—	pCi/L	Y	—	NQ	10-4002	CAPA-10-24097	GELC
R-17 S2	1124	03/08/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.161	0.023	0.031	—	pCi/L	Y	—	NQ	10-2375	CAPA-10-12801	GELC
R-17 S2	1124	09/11/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0867	0.025	0.11	—	pCi/L	Y	U	U	09-3206	CAPA-09-12166	GELC
R-17 S2	1124	04/25/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.96	—	—	1	µg/L	Y	—	NQ	2013-778	CAPA-13-29679	GELC
R-17 S2	1124	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.49	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13293	GELC
R-17 S2	1124	04/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.31	—	—	1	µg/L	Y	—	NQ	11-2212	CAPA-11-9291	GELC
R-17 S2	1124	10/22/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.54	—	—	1	µg/L	Y	—	NQ	11-243	CAPA-10-26964	GELC
R-17 S2	1124	06/14/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.75	—	—	1	µg/L	Y	—	NQ	10-3404	CAPA-10-17590	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00267	0.00596	0.0466	—	pCi/L	Y	U	U	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0282	0.0147	0.0616	—	pCi/L	Y	U	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00952	0.0064	0.041	—	pCi/L	Y	U	U	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00299	0.0049	0.029	—	pCi/L	Y	U	U	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00236	0.0042	0.042	—	pCi/L	Y	U	U	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.4	—	—	1	µg/L	Y	—	NQ	2013-741	CAPA-13-29680	GELC
R-19 S2	893.3	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.9	—	—	1	µg/L	Y	—	NQ	12-1274	CAPA-12-13294	GELC
R-19 S2	893.3	05/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24	—	—	1	µg/L	Y	—	NQ	11-2407	CAPA-11-9565	GELC
R-19 S2	893.3	10/15/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.1	—	—	1	µg/L	Y	—	NQ	11-178	CAPA-10-26956	GELC
R-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26	—	—	1	µg/L	Y	—	NQ	10-3306	CAPA-10-17573	GELC
R-19 S2	893.3	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.5	—	—	0.05	mg/L	Y	—	NQ	2013-741	CAPA-13-29680	GELC
R-19 S2	893.3	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.4	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13294	GELC
R-19 S2	893.3	05/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.5	—	—	0.05	mg/L	Y	—	NQ	11-2407	CAPA-11-9565	GELC
R-19 S2	893.3	10/15/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.6	—	—	0.05	mg/L	Y	—	NQ	11-178	CAPA-10-26956	GELC
R-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.1	—	—	0.05	mg/L	Y	—	NQ	10-3306	CAPA-10-17573	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	8.74	2.36	6.42	—	pCi/L	Y	UI	R	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.604	1.9	6.11	—	pCi/L	Y	U	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.95	1.4	4	—	pCi/L	Y	U	U	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.59	1.2	4.3	—	pCi/L	Y	U	U	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.523	1.8	5.3	—	pCi/L	Y	U	U	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.869	1.67	6.06	—	pCi/L	Y					

Table C-2 Pajarito Watershed 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-19 S2	893.3	05/12/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.5	—	—	0.45	mg/L	Y	—	NQ	11-2407	CAPA-11-9565	GELC
R-19 S2	893.3	10/15/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.6	—	—	0.35	mg/L	Y	—	NQ	11-178	CAPA-10-26956	GELC
R-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.2	—	—	0.35	mg/L	Y	—	NQ	10-3306	CAPA-10-17573	GELC
R-19 S2	893.3	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.92	—	—	0.11	mg/L	Y	—	NQ	2013-741	CAPA-13-29680	GELC
R-19 S2	893.3	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.94	—	—	0.11	mg/L	Y	—	NQ	12-1274	CAPA-12-13294	GELC
R-19 S2	893.3	05/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3	—	—	0.11	mg/L	Y	—	NQ	11-2407	CAPA-11-9565	GELC
R-19 S2	893.3	10/15/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.82	—	—	0.085	mg/L	Y	—	NQ	11-178	CAPA-10-26956	GELC
R-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.04	—	—	0.085	mg/L	Y	—	NQ	10-3306	CAPA-10-17573	GELC
R-19 S2	893.3	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.27	—	—	0.165	µg/L	Y	—	NQ	2013-741	CAPA-13-29680	GELC
R-19 S2	893.3	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.15	—	—	0.165	µg/L	Y	—	NQ	12-1274	CAPA-12-13294	GELC
R-19 S2	893.3	05/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.35	—	—	0.17	µg/L	Y	—	NQ	11-2407	CAPA-11-9565	GELC
R-19 S2	893.3	10/15/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.26	—	—	0.1	µg/L	Y	—	J	11-178	CAPA-10-26956	GELC
R-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.37	—	—	0.1	µg/L	Y	—	NQ	10-3306	CAPA-10-17573	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.51	2.77	9.55	—	pCi/L	Y	U	U	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.56	2.34	8.09	—	pCi/L	Y	U	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.01	3	9.1	—	pCi/L	Y	U	U	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.506	2.3	7.3	—	pCi/L	Y	U	U	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-19.8	11	33	—	pCi/L	Y	U	U	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00759	0.0104	0.0394	—	pCi/L	Y	U	U	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00906	0.00675	0.0469	—	pCi/L	Y	U	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0215	0.013	0.031	—	pCi/L	Y	U	U	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00624	0.0081	0.031	—	pCi/L	Y	U	U	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00104	0.013	0.042	—	pCi/L	Y	U	U	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00759	0.00759	0.0384	—	pCi/L	Y	U	U	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00302	0.00523	0.0398	—	pCi/L	Y	U	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-6.42E-10	0.0054	0.053	—	pCi/L	Y	U	U	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0029	0.029	—	pCi/L	Y	U	U	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00218	0.0055	0.03	—	pCi/L	Y	U	U	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.06	—	—	0.05	mg/L	Y	—	NQ	2013-741	CAPA-13-29680	GELC
R-19 S2	893.3	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.01	—	—	0.05	mg/L	Y	—	NQ	12-1274	CAPA-12-13294	GELC
R-19 S2	893.3	05/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.983	—	—	0.05	mg/L	Y	—	NQ	11-2407	CAPA-11-9565	GELC
R-19 S2	893.3	10/15/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.05	—	—	0.05	mg/L	Y	—	NQ	11-178	CAPA-10-26956	GELC
R-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	0.991	—	—	0.05	mg/L	Y	—	NQ	10-3306	CAPA-10-17573	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.3	17	75	—	pCi/L	Y	U	U	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.388	16.4	63.1	—	pCi/L	Y	U	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-34.2	18	51	—	pCi/L	Y	U				

Table C-2 Pajarito Watershed 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-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	74.2	—	1	µg/L	Y	—	NQ	10-3306	CAPA-10-17573	GELC	
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.204	0.134	0.489	—	pCi/L	Y	U	U	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0459	0.136	0.47	—	pCi/L	Y	U	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.157	0.14	0.46	—	pCi/L	Y	U	U	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.44	0.16	0.48	—	pCi/L	Y	U	U	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.297	0.12	0.48	—	pCi/L	Y	U	U	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.306	—	—	0.067	µg/L	Y	—	NQ	2013-741	CAPA-13-29680	GELC
R-19 S2	893.3	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.277	—	—	0.067	µg/L	Y	—	NQ	12-1274	CAPA-12-13294	GELC
R-19 S2	893.3	05/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.311	—	—	0.067	µg/L	Y	—	NQ	11-2407	CAPA-11-9565	GELC
R-19 S2	893.3	10/15/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.279	—	—	0.05	µg/L	Y	—	NQ	11-178	CAPA-10-26956	GELC
R-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.214	—	—	0.05	µg/L	Y	—	NQ	10-3306	CAPA-10-17573	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.332	0.0277	0.0532	—	pCi/L	Y	—	J	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.232	0.0327	0.0597	—	pCi/L	Y	—	NQ	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.227	0.031	0.05	—	pCi/L	Y	—	NQ	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.265	0.033	0.06	—	pCi/L	Y	—	NQ	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.245	0.032	0.049	—	pCi/L	Y	—	NQ	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0107	0.00759	0.0326	—	pCi/L	Y	U	U	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0175	0.00929	0.0427	—	pCi/L	Y	U	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00735	0.009	0.039	—	pCi/L	Y	U	U	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00683	0.0049	0.041	—	pCi/L	Y	U	U	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0138	0.007	0.038	—	pCi/L	Y	U	U	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.128	0.018	0.0298	—	pCi/L	Y	—	J	2013-741	CAPA-13-29669	GELC
R-19 S2	893.3	05/02/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0498	0.0172	0.0302	—	pCi/L	Y	—	U	12-1274	CAPA-12-13284	GELC
R-19 S2	893.3	10/15/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0863	0.018	0.03	—	pCi/L	Y	—	NQ	11-178	CAPA-10-26954	GELC
R-19 S2	893.3	06/02/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0912	0.017	0.045	—	pCi/L	Y	—	NQ	10-3306	CAPA-10-17572	GELC
R-19 S2	893.3	02/25/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.081	0.017	0.035	—	pCi/L	Y	—	NQ	10-2184	CAPA-10-12794	GELC
R-19 S2	893.3	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.8	—	—	1	µg/L	Y	J	J	2013-741	CAPA-13-29680	GELC
R-19 S2	893.3	05/02/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.68	—	—	1	µg/L	Y	J	J	12-1274	CAPA-12-13294	GELC
R-19 S2	893.3	05/12/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.72	—	—	1	µg/L	Y	J	J	11-2407	CAPA-11-9565	GELC
R-19 S2	893.3	10/15/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.93	—	—	1	µg/L	Y	J	J	11-178	CAPA-10-26956	GELC
R-19 S2	893.3	06/02/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	1.96	—	—	1	µg/L	Y	J	J	10-3306	CAPA-10-17573	GELC
R-19 S3	1171.4	04/16/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00219	0.00379	0.0382	—	pCi/L	Y	U	U	2013-735	CAPA-13-29670	GELC
R-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00399	0.00564	0.0478	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00224	0.002	0.038	—	pCi/L	Y	U	U	10-3929	CAPA-10-24099	GELC
R-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.000815	0.002	0.037	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	09/10/08	WG	UF	INIT</td																	

Table C-2 Pajarito Watershed 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-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.17	1.53	5.86	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.68	1.2	4.2	—	pCi/L	Y	U	U	10-3929	CAPA-10-24099	GELC
R-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.367	1.2	3.9	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	09/10/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.557	1.2	4	—	pCi/L	Y	U	U	08-1915	CAPA-08-15047	GELC
R-19 S3	1171.4	04/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.4	1.94	6.9	—	pCi/L	Y	U	U	2013-735	CAPA-13-29670	GELC
R-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.02	1.58	6.11	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.12	1.2	3.6	—	pCi/L	Y	U	U	10-3929	CAPA-10-24099	GELC
R-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.78	1.2	4.7	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	09/10/08	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.762	1.5	3.9	—	pCi/L	Y	U	U	08-1915	CAPA-08-15047	GELC
R-19 S3	1171.4	04/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.961	0.699	2.37	—	pCi/L	Y	U	U	2013-735	CAPA-13-29670	GELC
R-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.746	0.543	1.82	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.025	0.29	1.8	—	pCi/L	Y	U	U	10-3929	CAPA-10-24099	GELC
R-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.27	0.97	2.4	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	07/21/05	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.769	0.504	1.9	—	pCi/L	Y	U	U	141551	GU0507G19R301	GELC
R-19 S3	1171.4	04/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.79	0.882	2.99	—	pCi/L	Y	U	U	2013-735	CAPA-13-29670	GELC
R-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.47	0.722	2.28	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.633	0.76	2.7	—	pCi/L	Y	U	U	10-3929	CAPA-10-24099	GELC
R-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.975	0.65	2.1	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	07/21/05	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.49	0.539	1.63	—	pCi/L	Y	—	J	141551	GU0507G19R301	GELC
R-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.5	—	—	0.453	mg/L	Y	—	NQ	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.6	—	—	0.453	mg/L	Y	—	NQ	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.1	—	—	0.45	mg/L	Y	—	NQ	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.5	—	—	0.45	mg/L	Y	—	NQ	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.2	—	—	0.45	mg/L	Y	—	NQ	11-1180	CAPA-11-2967	GELC
R-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.11	—	—	0.11	mg/L	Y	—	NQ	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.15	—	—	0.11	mg/L	Y	—	NQ	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.14	—	—	0.11	mg/L	Y	—	NQ	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.79	—	—	0.11	mg/L	Y	—	NQ	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.14	—	—	0.11	mg/L	Y	—	NQ	11-1180	CAPA-11-2967	GELC
R-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.986	—	—	0.165	µg/L	Y	—	NQ	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.946	—	—	0.165	µg/L	Y	—	NQ	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.946	—	—	0.17	µg/L	Y	—	NQ	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1	—	—	0.17	µg/L	Y	—	NQ	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.25	—	—	0.17	µg/L	Y	—	NQ	11-1180	CAPA-11-2967	GELC
R-19 S3	1171.4	04/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.88	2.75	10.6	—	pCi/L	Y	U	U	2013-735	CAPA-13-29670	GELC
R-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.939	2.96	10.3	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.5	2.4	8.2								

Table C-2 Pajarito Watershed 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-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00713	0.0053	0.039	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	09/10/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0128	0.0066	0.031	—	pCi/L	Y	U	U	08-1915	CAPA-08-15047	GELC
R-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.22	—	—	0.05	mg/L	Y	—	NQ	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.21	—	—	0.05	mg/L	Y	—	NQ	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.22	—	—	0.05	mg/L	Y	—	NQ	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.5	—	—	0.05	mg/L	Y	—	NQ	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.24	—	—	0.05	mg/L	Y	—	NQ	11-1180	CAPA-11-2967	GELC
R-19 S3	1171.4	04/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10	22.3	86.4	—	pCi/L	Y	U	U	2013-735	CAPA-13-29670	GELC
R-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.35	18.8	69.6	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.51	16	54	—	pCi/L	Y	U	U	10-3929	CAPA-10-24099	GELC
R-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	39.7	15	57	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	09/10/08	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.1	21	39	—	pCi/L	Y	U	U	08-1915	CAPA-08-15047	GELC
R-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.59	—	—	0.1	mg/L	Y	—	NQ	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.7	—	—	0.1	mg/L	Y	—	NQ	11-1180	CAPA-11-2967	GELC
R-19 S3	1171.4	04/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.4	1.84	6.14	—	pCi/L	Y	U	U	2013-735	CAPA-13-29670	GELC
R-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.451	1.34	5.2	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.633	1.3	4.6	—	pCi/L	Y	U	U	10-3929	CAPA-10-24099	GELC
R-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.385	1.2	4.1	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	09/10/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.162	1.3	4.2	—	pCi/L	Y	U	U	08-1915	CAPA-08-15047	GELC
R-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51	—	—	1	µg/L	Y	—	NQ	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52.6	—	—	1	µg/L	Y	—	NQ	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	54.5	—	—	1	µg/L	Y	—	NQ	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.8	—	—	1	µg/L	Y	—	NQ	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52.5	—	—	1	µg/L	Y	—	NQ	11-1180	CAPA-11-2967	GELC
R-19 S3	1171.4	04/16/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0634	0.129	0.473	—	pCi/L	Y	U	U	2013-735	CAPA-13-29670	GELC
R-19 S3	1171.4	05/03/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.141	0.136	0.481	—	pCi/L	Y	U	U	12-1277	CAPA-12-13285	GELC
R-19 S3	1171.4	07/29/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.238	0.12	0.39	—	pCi/L	Y	U	U	10-3929	CAPA-10-24099	GELC
R-19 S3	1171.4	09/14/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.145	0.13	0.44	—	pCi/L	Y	U	U	09-3257	CAPA-09-12175	GELC
R-19 S3	1171.4	09/10/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.102	0.077	0.27	—	pCi/L	Y	U	U	08-1915	CAPA-08-15047	GELC
R-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.304	—	—	0.067	µg/L	Y	—	NQ	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.275	—	—	0.067	µg/L	Y	—	NQ	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.241	—	—	0.067	µg/L	Y	—	NQ	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.249	—	—	0.067	µg/L	Y	—	NQ	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	IN															

Table C-2 Pajarito Watershed 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-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.93	—	—	1	µg/L	Y	J	J	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.85	—	—	1	µg/L	Y	J	J	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.85	—	—	1	µg/L	Y	J	J	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5.04	—	—	1	µg/L	Y	—	U	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.53	—	—	1	µg/L	Y	J	J	11-1180	CAPA-11-2967	GELC
R-19 S3	1171.4	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.37	—	—	3.3	µg/L	Y	J	J	2013-735	CAPA-13-29681	GELC
R-19 S3	1171.4	05/03/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	38.5	—	—	3.3	µg/L	Y	—	NQ	12-1277	CAPA-12-13295	GELC
R-19 S3	1171.4	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2900	CAPA-11-22862	GELC
R-19 S3	1171.4	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	84.5	—	—	3.3	µg/L	Y	—	J	11-2379	CAPA-11-9580	GELC
R-19 S3	1171.4	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.56	—	—	3.3	µg/L	Y	J	J	11-1180	CAPA-11-2967	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0154	0.0096	0.0448	—	pCi/L	Y	U	U	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00823	0.00873	0.0493	—	pCi/L	Y	U	U	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0105	0.0061	0.041	—	pCi/L	Y	U	U	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.000248	0.0026	0.047	—	pCi/L	Y	U	U	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	09/11/08	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00381	0.012	0.033	—	pCi/L	Y	U	U	08-1933	CAPA-08-15049	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.6	—	—	1	µg/L	Y	—	NQ	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.4	—	—	1	µg/L	Y	—	NQ	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	25.6	—	—	1	µg/L	Y	—	NQ	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	32	—	—	1	µg/L	Y	—	J	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.9	—	—	1	µg/L	Y	—	NQ	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	22.9	—	—	15	µg/L	Y	J	J	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	30.5	—	—	15	µg/L	Y	J	J	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	15	—	—	15	µg/L	Y	J	J	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	11-2379	CAPA-11-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.75	—	—	0.05	mg/L	Y	—	NQ	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	07/30/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.5	—	—	0.05	mg/L	Y	—	NQ	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	09/16/09	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.26	—	—	0.05	mg/L	Y	—	NQ	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.4	—	—	0.05	mg/L	Y	—	NQ	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	8.76	—	—	0.05	mg/L	Y	—	NQ	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.33	1.65	6.35	—	pCi/L	Y	U	U	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0015	1.24	4.67	—	pCi/L	Y	U	U	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.69	1.6	5.9	—	pCi/L	Y	U	U	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.221	1.2	3.8	—	pCi/L	Y	U	U	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.9	1.2	4.3	—	pCi/L	Y	U	U	08-1933	CAPA-08-15049	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.92										

Table C-2 Pajarito Watershed 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-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.6	—	—	0.45	mg/L	Y	—	NQ	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	50.4	—	—	0.45	mg/L	Y	—	NQ	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	32.9	—	—	0.45	mg/L	Y	—	NQ	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.64	—	—	0.11	mg/L	Y	—	NQ	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.88	—	—	0.11	mg/L	Y	—	NQ	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.78	—	—	0.11	mg/L	Y	—	NQ	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.15	—	—	0.11	mg/L	Y	—	NQ	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.68	—	—	0.11	mg/L	Y	—	NQ	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	9.42	—	—	2	µg/L	Y	J	J	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	7.76	—	—	2	µg/L	Y	J	J	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.14	—	—	2	µg/L	Y	J	J	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.26	—	—	0.165	µg/L	Y	—	NQ	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.33	—	—	0.165	µg/L	Y	—	NQ	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.898	—	—	0.17	µg/L	Y	—	NQ	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.977	—	—	0.17	µg/L	Y	—	NQ	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.17	µg/L	Y	—	NQ	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.478	3.25	11.5	—	pCi/L	Y	U	U	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.21	2.45	8.98	—	pCi/L	Y	U	U	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.91	3.1	10	—	pCi/L	Y	U	U	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.79	11	33	—	pCi/L	Y	U	U	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	09/11/08	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-26	9.3	26	—	pCi/L	Y	U	U	08-1933	CAPA-08-15049	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.565	—	—	0.5	µg/L	Y	J	J	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.83	—	—	0.5	µg/L	Y	J	J	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.686	—	—	0.5	µg/L	Y	J	J	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00722	0.00538	0.0374	—	pCi/L	Y	U	U	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0101	0.0453	—	pCi/L	Y	U	U	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0055	0.02	—	pCi/L	Y	U	U	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00256	0.0036	0.043	—	pCi/L	Y	U	U	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	09/11/08	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0018	0.025	—	pCi/L	Y	U	U	08-1933	CAPA-08-15049	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00241	0.00637	0.0365	—	pCi/L	Y	U	U	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0146	0.00713	0.0384	—	pCi/L	Y	U	U	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0249	0.0093	0.033	—	pCi/L	Y	U	U	10-3932	CAPA-10-24102	GELC
R-19 S4																						

Table C-2 Pajarito Watershed 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-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	8.78	—	—	0.1	mg/L	Y	—	NQ	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.59	1.59	5.47	—	pCi/L	Y	U	U	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0247	1.34	5.01	—	pCi/L	Y	U	U	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.819	1.7	5.7	—	pCi/L	Y	U	U	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.04	1.3	4.6	—	pCi/L	Y	U	U	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	09/11/08	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.39	1.3	3.3	—	pCi/L	Y	U	U	08-1933	CAPA-08-15049	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.4	—	—	1	µg/L	Y	—	NQ	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.2	—	—	1	µg/L	Y	—	NQ	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.6	—	—	1	µg/L	Y	—	NQ	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.5	—	—	1	µg/L	Y	—	NQ	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	43.8	—	—	1	µg/L	Y	—	NQ	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0279	0.114	0.433	—	pCi/L	Y	U	U	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.18	0.144	0.489	—	pCi/L	Y	U	U	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.197	0.12	0.38	—	pCi/L	Y	U	U	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.217	0.12	0.39	—	pCi/L	Y	U	U	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	09/11/08	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.011	0.13	0.48	—	pCi/L	Y	U	U	08-1933	CAPA-08-15049	GELC
R-19 S4	1410.2	04/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.287	—	—	0.067	µg/L	Y	—	NQ	2013-741	CAPA-13-29682	GELC
R-19 S4	1410.2	05/07/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.289	—	—	0.067	µg/L	Y	—	NQ	12-1287	CAPA-12-13296	GELC
R-19 S4	1410.2	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.283	—	—	0.067	µg/L	Y	—	NQ	11-2900	CAPA-11-22866	GELC
R-19 S4	1410.2	05/10/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.289	—	—	0.067	µg/L	Y	—	NQ	11-2379	CAPA-11-9583	GELC
R-19 S4	1410.2	01/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.336	—	—	0.067	µg/L	Y	—	U	11-1180	CAPA-11-2971	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.185	0.0214	0.0554	—	pCi/L	Y	—	NQ	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.126	0.0306	0.0753	—	pCi/L	Y	—	NQ	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.265	0.038	0.11	—	pCi/L	Y	—	NQ	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.196	0.03	0.11	—	pCi/L	Y	—	NQ	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	09/11/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.25	0.043	0.15	—	pCi/L	Y	—	NQ	08-1933	CAPA-08-15049	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0112	0.0079	0.034	—	pCi/L	Y	U	U	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0124	0.0102	0.0538	—	pCi/L	Y	U	U	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00484	0.0084	0.054	—	pCi/L	Y	U	U	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00385	0.0067	0.056	—	pCi/L	Y	U	U	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	09/11/08	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.011	0.019	0.082	—	pCi/L	Y	U	U	08-1933	CAPA-08-15049	GELC
R-19 S4	1410.2	04/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0881	0.0179	0.0311	—	pCi/L	Y	—	NQ	2013-741	CAPA-13-29671	GELC
R-19 S4	1410.2	05/07/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0894	0.0204	0.038	—	pCi/L	Y	—	NQ	12-1287	CAPA-12-13286	GELC
R-19 S4	1410.2	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.141	0.027	0.069	—	pCi/L	Y	—	NQ	10-3932	CAPA-10-24102	GELC
R-19 S4	1410.2	09/16/09	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.021	0.067	—	pCi/L	Y	—	NQ	09-3300	CAPA-09-12181	GELC
R-19 S4	1410.2	09/11/08	WG	UF	INIT	REG	RAD															

Appendix D

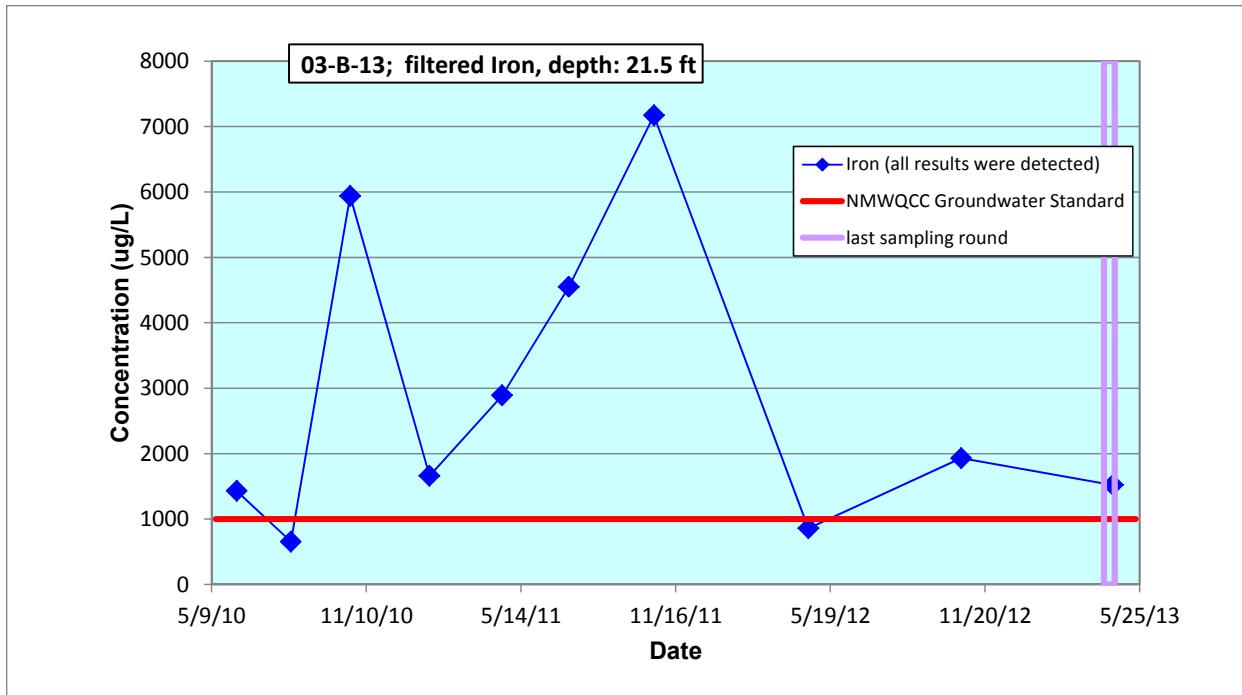
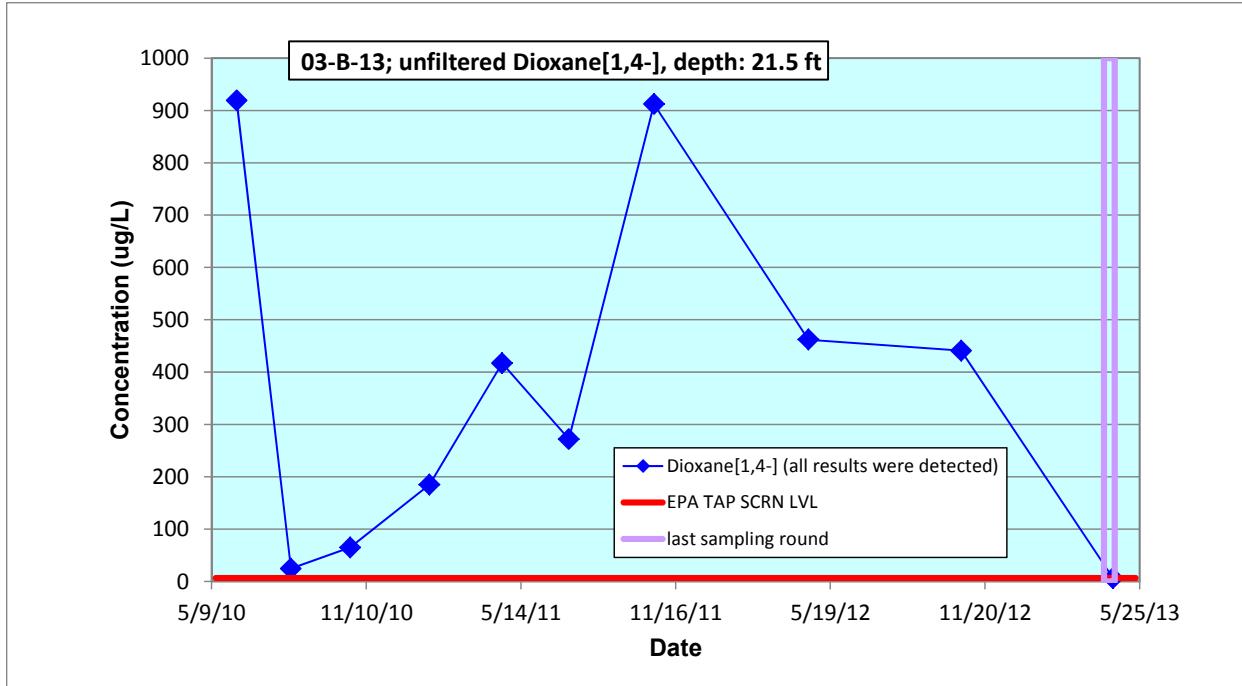
Groundwater Results Greater Than Half of Screening Levels

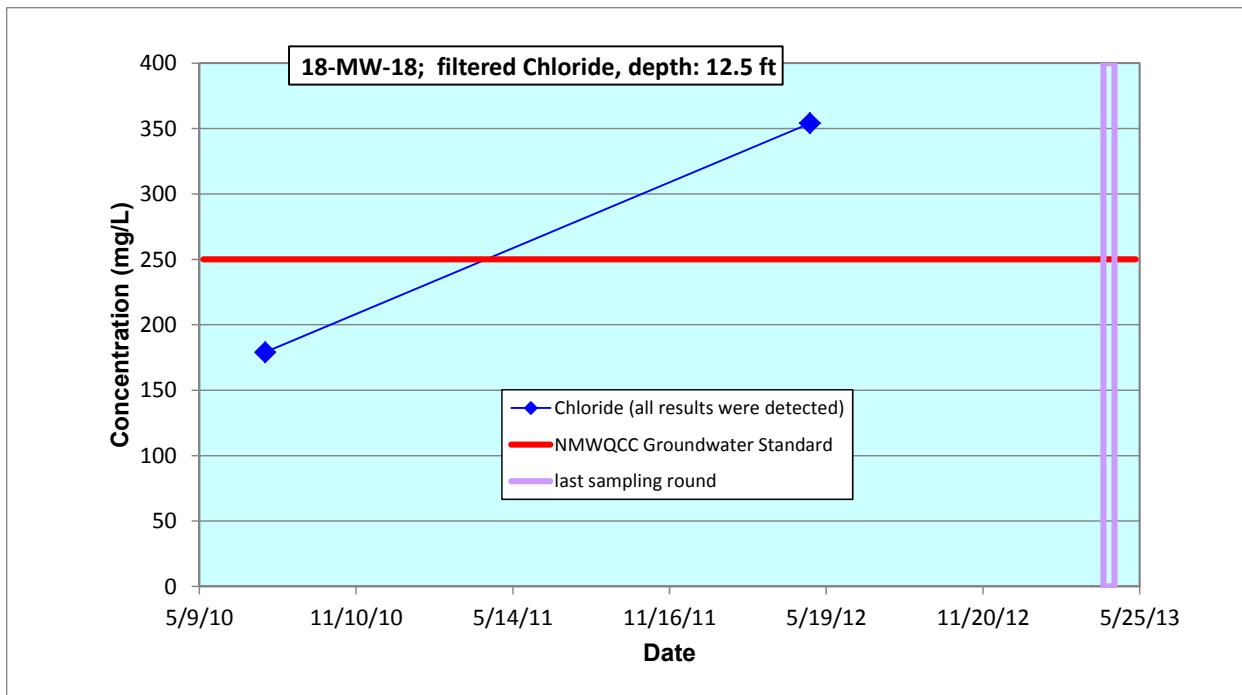
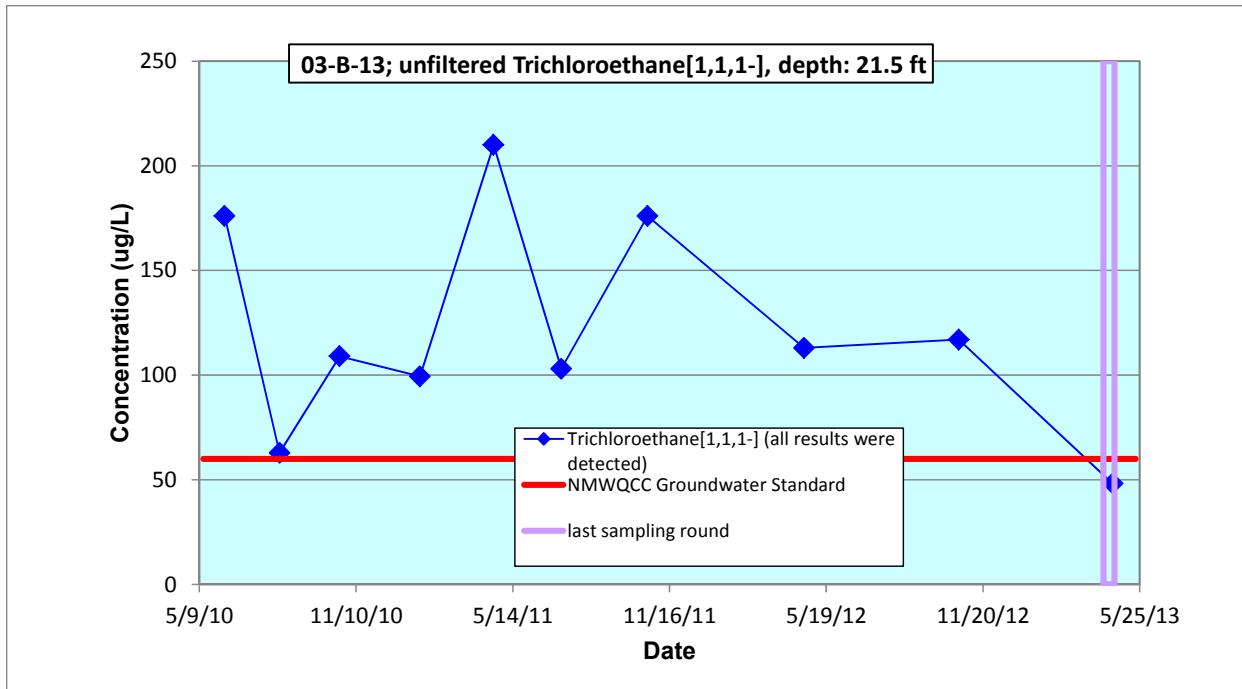
Zone	Location	Screen Top Depth (ft)	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Prep Code	Analysis Type Code	Field Quality Control Code	Detect Flag	Report Result	Method Detection Limit	Unit	Dilution Factor	Lab Qualifier	Validation Qualifier	Validation Reason	Best Value Flag	Analytical Method	Lab ID	Screening Level	Reporting Level Code	Result/ Screening Level
Intermediate	03-B-13	21.5	04/23/13	Metals	Iron	Fe	F ^a	INIT ^b	REG ^c	Y ^d	1520	30	µg/L	1	— ^e	NQ ^f	NQ	Y	SW-846:6010B	GELC ^g	1000	NMWQCC Groundwater Standard ^h	1.52
Intermediate	03-B-13	21.5	04/23/13	SVOC ⁱ	Dioxane[1,4-]	123-91-1	UF ^j	INIT	REG	Y	6.22	3	µg/L	1	J ^k	J ^l _LAB ^m	Y	SW-846:8270C	GELC	6.7	EPA TAP Screening Level ⁿ	0.93	
Intermediate	03-B-13	21.5	04/23/13	VOC ^o	Trichloroethane[1,1,1-]	71-55-6	UF	INIT	REG	Y	48.2	0.3	µg/L	1	—	NQ	NQ	Y	SW-846:8260B	GELC	60	NMWQCC Groundwater Standard	0.80
Regional	R-17 S2	1124	04/25/13	General Inorganic	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	F	INIT	REG	Y	326	8.5	mg/L	500	—	R ^p	I19 ^q	N ^r	EPA:353.2	GELC	10	EPA MCL	32.60

^a F = Filtered.^b INIT = Initial.^c REG = Regular.^d Y = Yes.^e — = None.^f NQ = Not qualified.^g GELC = General Engineering Laboratories, Inc., Charleston, SC.^h NMWQCC Groundwater Standard = New Mexico Water Quality Control Commission groundwater standard.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 Screening Level = U.S. Environmental Protection Agency regional screening level for tap water.^o VOC = Volatile organic compound.^p R = The reported sample result is classified as rejected because of serious noncompliances regarding quality control acceptance criteria. The presence or absence of the analyte cannot be verified based on routine validation alone.^q I19 = The Los Alamos National Laboratory (LANL) project chemist identified quality deficiencies in the reported data that require further qualification. This code can only be used under advisement by the LANL project chemist.^r N = No.

Appendix E

Analytical Chemistry Graphs of Screening-Level Exceedances





Appendix F

*Analytical Reports
(on CD included with this document)*

CD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
384176	Inorganic	EES6 ^a	CAPA-11-22871	07/27/11	R-17 S1	1057	1080
384176	Inorganic	EES6	CAPA-11-22872	07/27/11	R-17 S1	1057	1080
384176	Inorganic	EES6	CAPA-11-22875	07/27/11	R-17 S2	1124	1134
384176	Inorganic	EES6	CAPA-11-22876	07/27/11	R-17 S2	1124	1134
2013-724	Inorganic	GELC ^b	CAPA-13-29664	04/12/13	Paj bel S&N Anch E Basin conf	— ^c	—
2013-724	Inorganic	GELC	CAPA-13-29675	04/12/13	Paj bel S&N Anch E Basin conf	—	—
2013-724	Organic	GELC	CAPA-13-29664	04/12/13	Paj bel S&N Anch E Basin conf	—	—
2013-724	Rad ^d	GELC	CAPA-13-29664	04/12/13	Paj bel S&N Anch E Basin conf	—	—
2013-728	Inorganic	GELC	CAPA-13-29666	04/15/13	PCI-2	512	522
2013-728	Inorganic	GELC	CAPA-13-29677	04/15/13	PCI-2	512	522
2013-728	Organic	GELC	CAPA-13-29666	04/15/13	PCI-2	512	522
2013-728	Rad	GELC	CAPA-13-29666	04/15/13	PCI-2	512	522
2013-735	Inorganic	GELC	CAPA-13-29681	04/16/13	R-19 S3	1171.4	1215.4
2013-735	Rad	GELC	CAPA-13-29670	04/16/13	R-19 S3	1171.4	1215.4
2013-736	Rad	ARSL ^e	CAPA-13-29666	04/15/13	PCI-2	512	522
2013-741	Inorganic	GELC	CAPA-13-29680	04/17/13	R-19 S2	893.3	909.6
2013-741	Inorganic	GELC	CAPA-13-29682	04/17/13	R-19 S4	1410.2	1417.4
2013-741	Organic	GELC	CAPA-13-29669	04/17/13	R-19 S2	893.3	909.6
2013-741	Rad	GELC	CAPA-13-29669	04/17/13	R-19 S2	893.3	909.6
2013-741	Rad	GELC	CAPA-13-29671	04/17/13	R-19 S4	1410.2	1417.4
2013-760	Inorganic	GELC	CAPA-13-29662	04/23/13	03-B-13	21.5	31.5
2013-760	Inorganic	GELC	CAPA-13-29673	04/23/13	03-B-13	21.5	31.5
2013-760	Inorganic	GELC	CAPA-13-29674	04/23/13	18-MW-18	12.5	23
2013-760	Organic	GELC	CAPA-13-29662	04/23/13	03-B-13	21.5	31.5
2013-760	Organic	GELC	CAPA-13-29663	04/23/13	18-MW-18	12.5	23
2013-760	Rad	GELC	CAPA-13-29662	04/23/13	03-B-13	21.5	31.5
2013-778	Inorganic	GELC	CAPA-13-29651	04/25/13	R-17 S1	1057	1080
2013-778	Inorganic	GELC	CAPA-13-29652	04/25/13	R-17 S1	1057	1080
2013-778	Inorganic	GELC	CAPA-13-29668	04/25/13	R-17 S2	1124	1134
2013-778	Inorganic	GELC	CAPA-13-29678	04/25/13	R-17 S1	1057	1080
2013-778	Inorganic	GELC	CAPA-13-29667	04/25/13	R-17 S1	1057	1080
2013-778	Inorganic	GELC	CAPA-13-29679	04/25/13	R-17 S2	1124	1134
2013-778	Organic	GELC	CAPA-13-29651	04/25/13	R-17 S1	1057	1080
2013-778	Organic	GELC	CAPA-13-29668	04/25/13	R-17 S2	1124	1134
2013-778	Organic	GELC	CAPA-13-29667	04/25/13	R-17 S1	1057	1080
2013-778	Rad	GELC	CAPA-13-29651	04/25/13	R-17 S1	1057	1080
2013-778	Rad	GELC	CAPA-13-29668	04/25/13	R-17 S2	1124	1134
2013-778	Rad	GELC	CAPA-13-29667	04/25/13	R-17 S1	1057	1080

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2013-778-2	Inorganic	GELC	CAPA-13-29679	04/25/13	R-17 S2	1124	1134
2013-791	Rad	ARSL	CAPA-13-29651	04/25/13	R-17 S1	1057	1080
2013-791	Rad	ARSL	CAPA-13-29667	04/25/13	R-17 S1	1057	1080

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

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

^c ___ = Not applicable.

^d RAD= Radiochemistry (not gamma).

^e ARSL = American Radiation Services, Inc.