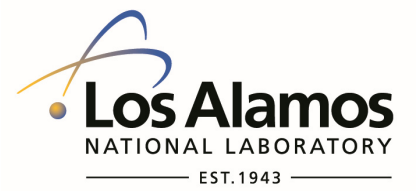
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Periodic Monitoring Report for Technical Area 54 Monitoring Group, October 14–October 30, 2014



Prepared by the Environmental Programs Directorate

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EP2015-0018

Periodic Monitoring Report for Technical Area 54 Monitoring Group, October 14–October 30, 2014

February 2015

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EXECUTIVE SUMMARY

This periodic monitoring report (PMR) provides the results of the fiscal year 2015, first quarter, periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Technical Area 54 monitoring group. This PME was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2015 Monitoring Year, October 2014–September 2015, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from October 14 to October 30, 2014, and included the monitoring of groundwater wells and well screens. This report also includes any results from previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of a PME are also included in this report.

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

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

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

CONTENTS

1.0 INTRODUCTION 1
1.1 Background 1
2.0 SCOPE OF ACTIVITIES 2
3.0 MONITORING RESULTS 2
3.1 Methods and Procedures 2
3.2 Field Parameter Results 2
3.3 Groundwater Elevations 3
3.4 Deviations from Planned Scope 3
4.0 ANALYTICAL DATA RESULTS 3
4.1 Methods and Procedures 3
4.2 Analytical Data 4
4.2.1 Surface Water (Base Flow) 6
4.2.2 Groundwater 6
4.3 Sampling Program Modifications 6
5.0 SUMMARY AND INTERPRETATIONS 7
5.1 Monitoring Results 7
5.2 Analytical Results 7
5.2.1 Surface Water (Base Flow) 7
5.2.2 Groundwater 7
5.3 Data Gaps 7
5.4 Remediation System Monitoring 7
6.0 REFERENCES 7

Figures

Figure 2.0-1 Locations scheduled to be monitored for this PME 9

Tables

Table 2.0-1 TA-54 Monitoring Group Locations and General Information 11
Table 3.4-1 TA-54 Monitoring Group PME Observations and Deviations 12
Table 3.4-2 Analytes with MDLs above Screening Levels 12
Table 3.4-3 Analytes with MDLs Now below Screening Levels 13
Table 4.2-1 Sources of Screening Levels for Groundwater and Surface Water at Los Alamos National Laboratory 14
Table 4.2-2 TA-54 Monitoring Group Groundwater Results above Screening Levels 14

Appendixes

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

Plate

Plate 1	Groundwater elevations

Acronyms and Abbreviations

amsl	above mean sea level
AOC	area of concern
AQA	Analytical Quality Associates, Inc.
BCG	Biota Concentration Guide (DOE)
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations (U.S.)
Consent Order	Compliance Order on Consent
DCS	Derived Concentration Technical Standard (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
ESH	Environment, Safety, and Health (Directorate)
F	filtered
FY	fiscal year
gpm	gallons per minute
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MDA	material disposal area
MDL	method detection limit
N	no (best value flag code)
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NM HH OO	Human health organism only, New Mexico surface-water standards
NMWQCC	New Mexico Water Quality Control Commission
PME	periodic monitoring event
PMR	periodic monitoring report
PQL	practical quantitation limit
QC	quality control
SOP	standard operating procedure
SWMU	solid waste management unit
TA	technical area
UF	unfiltered
Y	yes (best value flag code)

1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of fiscal year (FY) 2015, first quarter, semiannual groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) in the Technical Area 54 (TA-54) monitoring group. Monitoring was conducted pursuant to the Interim Facility-Wide Groundwater Monitoring Plan for the 2015 Monitoring Year, October 2014–September 2015 (2015 IFGMP) (LANL 2014, 256728), which was prepared in accordance with the Compliance Order on Consent (the Consent Order). The periodic monitoring event (PME) occurred from October 14 to October 30, 2014, and included sampling of groundwater wells and well screens.

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

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

This report presents the following information:

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

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

1.1 Background

At TA-54, groundwater monitoring is conducted to support both (1) the corrective measures process for solid waste management units (SWMUs) and areas of concern (AOCs) (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. A total of 47 SWMUs and AOCs are located within 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 TA-54 monitoring group was conducted pursuant to the 2015 IFGMP (LANL 2014, 256728).

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

3.0 MONITORING RESULTS

3.1 Methods and Procedures

All methods and procedures used to perform the field activities associated with the PME are documented in the 2015 IFGMP (LANL 2014, 256728).

3.2 Field Parameter Results

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

3.3 Groundwater Elevations

The periodic monitoring water-level data for the previous 2 yr are presented in Appendix B (on CD included with this document). For wells equipped with transducers, the reported water level is the water-level measurement taken earliest on the day of sampling. All manual measurements were recorded immediately before sampling. The groundwater-elevation measurements are shown graphically on Plate 1. No surface-water locations are sampled for this monitoring group.

3.4 Deviations from Planned Scope

Table 3.4-1 describes the fieldwork deviations from the planned scope of the PME. Table 3.4-2 presents a list of analytes for which the method detection limits (MDLs) are greater than screening levels. Some of the analytes were measured using more than one analytical method or analytical laboratory, leading to a range of MDLs. For some of these analytes, the MDL is much lower than for earlier analyses. Table 3.4-3 presents a list of analytes for which the MDLs are now below screening levels. The tables apply to the results with the lowest MDL, so the analytical method and analytical laboratory are included in the tables for reference.

4.0 ANALYTICAL DATA RESULTS

4.1 Methods and Procedures

All methods and procedures used to perform the analytical activities of the PME are documented in the 2015 IFGMP (LANL 2014, 256728). Purge water is managed and characterized in accordance with waste profile form 39268, a copy of which was included in Appendix F of a previous PMR (LANL 2008, 103737), and ENV-RCRA-QP-010.3, Land Application of Groundwater. ENV-RCRA-QP-010.3 implements the NMED-approved Notice of Intent Decision Tree for land application of drilling, development, rehabilitation, and sampling of purge water.

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

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

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

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

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

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

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

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

4.2 Analytical Data

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

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

- All data
    - ❖ Data that are R-qualified (rejected because of noncompliance regarding QC acceptance criteria) during independent validation are considered unusable but are still reported.
    - ❖ Analytical laboratory QC results, including matrix spike and matrix spike duplicates, and field blanks, trip blanks, and equipment blanks are not included in the data set.
    - ❖ Field duplicates, reanalyses, and results from different analytical methods are reported.
- Radionuclides
    - ❖ Only cesium-137, cobalt-60, neptunium-237, potassium-40, and sodium-22 are reported (or analyzed) for the gamma spectroscopy suite.
    - ❖ Americium-241 and uranium-235 are reported only by chemical separation alpha spectroscopy. No gamma spectroscopy results are presented for these analytes.

- ❖ Otherwise, all results are reported at all locations.

- Nonradionuclides
  - ❖ All detected results are reported.

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

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

- The base-flow monitoring locations are assigned to one of two screening categories—perennial or ephemeral. Along with a hardness value, this category determines the screening levels used for data at each monitoring location. Hardness-dependent screening levels used to screen data at each base-flow monitoring location are determined using the geometric mean of hardness data (mg/L as calcium carbonate) collected from 2006 to 2010 at each location. Hardness-dependent acute and chronic criteria were used for total aluminum and dissolved cadmium, chromium, copper, lead, manganese, nickel, silver, and zinc in accordance with the requirements of 20 New Mexico Administrative Code (NMAC) 6.4.
- Surface-water and groundwater perchlorate data were compared with the screening level of 4 µg/L established in Section VIII.A.1.a of the Consent Order.
- Other groundwater data are screened to groundwater cleanup levels described in Section VIII.A.1 of the Consent Order; for an individual substance, the lesser of the EPA MCL or the NMWQCC groundwater standard is used.
- If an NMWQCC standard or an MCL has not been established for a specific substance for which toxicological information is published, the EPA regional screening levels for tap water (formerly Region 6 screening levels for tap water) are used as the groundwater cleanup level. These screening levels are for either a cancer- or noncancer-risk type. The Consent Order specifies screening at a 10^{-5} excess cancer risk. The EPA screening levels are for 10^{-6} excess cancer risk, so 10 times the EPA 10^{-6} screening levels are used for screening. This report was prepared using the November 2014 EPA regional screening levels.
- The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants. EPA MCLs are applied to both filtered and unfiltered sample results.
- The analytical results for radioactivity are compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Technical Standards (DCSs) for groundwater.

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

Table 4.2-2 provides groundwater analytical results (by hydrogeologic zone for a specific analytical suite) that are above screening levels. Multiple detections of a particular constituent at a location are counted as one result. For example, if aluminum is detected above a screening level in both a primary sample and a field duplicate, only the highest result is shown.

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

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

4.2.1 Surface Water (Base Flow)

No surface-water locations are included in this monitoring group.

4.2.2 Groundwater

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

For the current PME, the filtered aluminum and iron results at intermediate well 03-B-13 were above screening levels. The aluminum result of 7370 µg/L was above the 5000-µg/L NMWQCC groundwater standard screening level (for irrigation use), and the iron result of 4170 µg/L was above the 1000-µg/L NMWQCC groundwater standard screening level (for domestic water supply). Aluminum concentrations since 2006 range between 81.1 µg/L and 35,600 µg/L. Previous iron concentrations range between 94.7 µg/L and 21,300 µg/L.

The unfiltered 1,4-dioxane concentration of 21.5 µg/L at 03-B-13 was above the 7.8-µg/L EPA tap water screening level. Earlier concentrations from sampling events since 2006 range from 6.22 µg/L to 919 µg/L. The unfiltered 1,1,1-trichloroethane concentration of 72.3 µg/L was above the 60-µg/L NMWQCC groundwater standard screening level. Earlier concentrations from sampling events since 2006 range from 39.9 µg/L to 317 µg/L.

The unfiltered strontium-90 activity in a reanalysis of a field duplicate sample at intermediate well screen R-23i S3 was 13.8 pCi/L, above the 8-pCi/L EPA MCL screening level. The original analysis result was 0.65 pCi/L. The original and reanalysis results in the primary sample were 0.82 pCi/L and 3.64 pCi/L, respectively. A second reanalysis detected no strontium-90 in either sample. These results are the first detections of strontium-90 in this well screen.

The filtered manganese result of 258 µg/L at intermediate well R-40 Si was above the 200-µg/L NMWQCC groundwater standard screening level (for domestic water supply). Previous manganese concentrations range between 106 µg/L and 398 µg/L.

4.3 Sampling Program Modifications

No modifications to the periodic monitoring sampling for the TA-54 monitoring group are proposed at this time.

5.0 SUMMARY AND INTERPRETATIONS

5.1 Monitoring Results

The field parameter monitoring results are presented in Appendix A.

5.2 Analytical Results

5.2.1 Surface Water (Base Flow)

No surface-water locations are included in this monitoring group.

5.2.2 Groundwater

No results from previous sampling of PME groundwater monitoring locations reported in this PMR were above screening levels. Six results from groundwater samples collected during this PME were above screening levels (Table 4.2-2).

For results above screening levels, the types of contaminants detected and their concentrations are consistent with data reported from previous PMEs in this monitoring group, with one exception. The detections of strontium-90 from the initial analysis and first reanalysis of the primary and field duplicate samples at intermediate well screen R-23i S3 are the first detections at this location. However, the second reanalysis of the samples resulted in nondetects, suggesting that the first two analyses were false positives. Previous samples and a follow-up sample collected on January 13, 2015, were also nondetects.

5.3 Data Gaps

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

5.4 Remediation System Monitoring

Remediation system monitoring is not applicable to the TA-54 monitoring group because no systems are installed in the monitoring group area.

6.0 REFERENCES

The following list includes all documents cited in this report. Parenthetical information following each reference provides the author(s), publication date, and ER ID or ESH ID. This information is also included in text citations. ER IDs were assigned by the Environmental Programs Directorate's Records Processing Facility (IDs through 599999), and ESH IDs are assigned by the Environment, Safety, and Health (ESH) Directorate (IDs 600000 and above). IDs are used to locate documents in the Laboratory's Electronic Document Management System and, where applicable, in the master reference set.

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

LANL (Los Alamos National Laboratory), 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)

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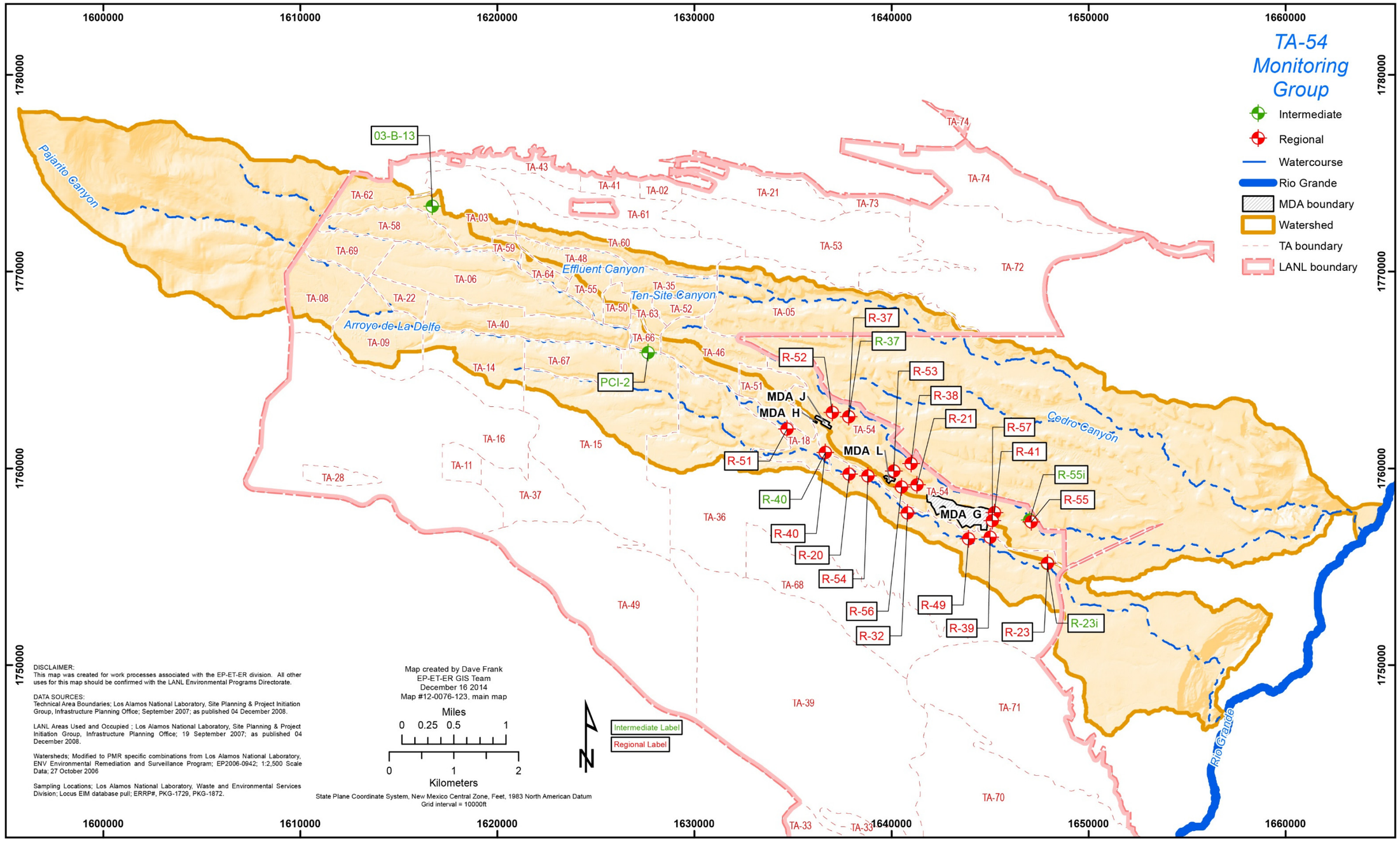


Figure 2.0-1 Locations scheduled to be monitored for this PME (see Table 3.4-1)

Table 2.0-1
TA-54 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-Rate (gpm*)
Intermediate							
03-B-13	10/14/14	10	21.5	31.5	1.6	5.5	0.05
PCI-2	10/27/14	10	512	522	21	63	0.47
R-23i S1	10/20/14	19.7	400.3	420	3.3	13	1
R-23i S2	10/29/14	9.9	470.2	480.1	36.4	109.5	1.17
R-23i S3	10/20/14	23	524	547	39.4	118.5	1.54
R-37 S1	10/15/14	20.7	929.3	950	51	153	0.71
R-40 S1	10/28/14	33.47	751.59	785.06	30.3	30.8	0.55
R-40 Si	10/28/14	19.35	649.67	669.02	12.8	38.9	0.58
R-55i	10/17/14	21.1	510	531.1	43.9	150	2.5
Regional							
R-20 S1	10/31/14	7.6	904.6	912.2	70.13	211.2	0.66
R-20 S2	10/20/14	7.6	1147.1	1154.7	41.02	126.4	1.6
R-21	10/23/14	18	888.8	906.8	200.2	601.4	3.1
R-23	10/17/14	57.2	816	873.2	44.9	160.5	10.7
R-32 S1	10/21/14	7.7	867.5	875.2	87.8	264	2.2
R-37 S2	10/14/14	20.6	1026	1046.6	53	190	10
R-38	10/28/14	10	821.2	831.2	41.2	125	2.5
R-39	10/21/14	10	859	869	47.94	158.1	3.1
R-40 S2	10/17/14	20.73	849.27	870	38.4	116	2
R-41 S2	10/21/14	9.7	965.3	975	35.62	108	3
R-49 S1	10/27/14	10	845	855	78.2	236	1.5
R-49 S2	10/24/14	20.8	905.6	926.4	58.1	176.12	2.38
R-51 S1	10/22/14	10.28	914.96	925.24	60.3	259	3.7
R-51 S2	10/22/14	10.04	1030.96	1041	91.1	277.4	3.8
R-52 S1	10/16/14	20.5	1035.24	1055.7	62.2	191.4	3.3
R-52 S2	10/16/14	10	1107	1117	43.04	131.2	3.2
R-53 S1	10/23/14	10	849.2	859.2	76.2	228.75	3.75
R-53 S2	10/23/14	20.5	959.7	980.2	94.5	284.3	3.79
R-54 S1	10/22/14	10	830	840	53.3	162	3
R-54 S2	10/22/14	10	915	925	61.2	186	3
R-55 S1	10/15/14	20.6	860	880.6	111.8	337	2.78
R-55 S2	10/15/14	21	994.4	1015.4	72.4	218	2.65
R-56 S1	10/30/14	20.6	945	965.6	84	256.2	4.2
R-56 S2	10/30/14	20.5	1046.6	1067.1	68.8	209.1	4.1
R-57 S1	10/16/14	20.5	910	930.5	70.5	214	3.57
R-57 S2	10/16/14	20.6	971.5	992.1	51	153.5	3.57

* gpm = Gallons per minute.

Table 3.4-1
TA-54 Monitoring Group PME Observations and Deviations

Location	Deviation	Cause	Comment
03-B-13	This location is included in the Pajarito Canyon General Surveillance monitoring group and was sampled in the first quarter of FY2015. NMED agreed to present the location results in this PMR.	n/a*	n/a
PCI-2	This location is included in the Pajarito Canyon General Surveillance monitoring group and was sampled in the first quarter of FY2015. NMED required more frequent sampling at this location.	n/a	n/a

* n/a = Not applicable.

Table 3.4-2
Analytes with MDLs above Screening Levels

CAS[a] No.	Analyte Name	MDL	PQL[b]	Screening Level	Unit	Screening-Level Type	Analytical Method	Analytical Lab
Semivolatile Organic Compounds								
92-87-5	Benzidine	3.75	9.61	0.0011	µg/L	EPA Regional Tap	SW-846:8270D	GELC[c]
111-44-4	Bis(2-chloroethyl)ether	0.63	5.23	0.14	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY[d]
91-94-1	Dichlorobenzidine[3,3'-]	2.88	9.61	0.28	µg/L	NM HH OO[e]	SW-846:8270D	GELC
534-52-1	Dinitro-2-methylphenol[4,6-]	1.57	26.04	1.5	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
118-74-1	Hexachlorobenzene	0.52	5.23	0.0029	µg/L	NM HH OO	SW-846:8270D	SHEALY
55-18-5	Nitrosodiethylamine[N-]	2.88	9.61	0.0017	µg/L	EPA Regional Tap	SW-846:8270D	GELC
62-75-9	Nitrosodimethylamine[N-]	0.73	5.23	0.0049	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
924-16-3	Nitroso-di-n-butylamine [N-]	1.46	5.23	0.027	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
621-64-7	Nitroso-di-n-propylamine[N-]	0.42	5.23	0.11	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
930-55-2	Nitrosopyrrolidine[N-]	2.19	5.23	0.37	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY
Volatile Organic Compounds								
107-02-8	Acrolein	1.50	5.00	0.042	µg/L	EPA Regional Tap	SW-846:8260B	GELC
107-13-1	Acrylonitrile	1.03	5.00	0.52	µg/L	EPA Regional Tap	SW-846:8260B	GELC
126-99-8	Chloro-1,3-butadiene[2-]	0.21	1.00	0.19	µg/L	EPA Regional Tap	SW-846:8260B	GELC
96-18-4	Trichloropropane[1,2,3-]	0.30	1.00	0.0075	µg/L	EPA Regional Tap	SW-846:8260B	GELC

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

[a] CAS = Chemical Abstracts Service.

[b] PQL = Practical quantitation limit.

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

[d] SHEALY = Shealy Environmental Services, Inc.

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

Table 3.4-3
Analytes with MDLs Now below Screening Levels

CAS[a] No.	Analyte Name	MDL	PQL[b]	Screening Level	Unit	Screening-Level Type	Analytical Method	Analytical Lab
Semivolatile Organic Compounds								
103-33-3	Azobenzene	0.73	5.23	1.2	µg/L	EPA Regional Tap	SW-846:8270D	SHEALY[c]
56-55-3	Benzo(a)anthracene	0.02	0.05	0.18	µg/L	NM HH OO[d]	SW-846:8310	GELC[e]
50-32-8	Benzo(a)pyrene	0.02	0.05	0.18	µg/L	NM HH OO	SW-846:8310	GELC
205-99-2	Benzo(b)fluoranthene	0.02	0.05	0.18	µg/L	NM HH OO	SW-846:8310	GELC
53-70-3	Dibenz(a,h)anthracene	0.02	0.05	0.034	µg/L	EPA Regional Tap	SW-846:8310	GELC
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	0.05	0.18	µg/L	NM HH OO	SW-846:8310	GELC
87-86-5	Pentachlorophenol	0.08	0.24	1	µg/L	EPA MCL	SW-846:8151A	GELC
Volatile Organic Compounds								
96-12-8	Dibromo-3-Chloropropane[1,2-]	0.01	0.02	0.2	µg/L	EPA MCL	SW-846:8011	GELC
106-93-4	Dibromoethane[1,2-]	0.01	0.02	0.05	µg/L	EPA MCL	SW-846:8011	GELC
126-98-7	Methacrylonitrile	1.03	5.00	1.9	µg/L	EPA Regional Tap	SW-846:8260B	GELC

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

[a] CAS = Chemical Abstracts Service.

[b] PQL = Practical quantitation limit.

[c] SHEALY = Shealy Environmental Services, Inc.

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

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

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

Standard Source	Standard Type	Groundwater	Surface Water
DOE Order 458.1	DOE BCGs	n/a[a]	X[b]
DOE Order 458.1	DOE 100-mrem Public Dose DCS	X	n/a
DOE Order 458.1	DOE 4-mrem Drinking Water DCS	X	n/a
40 CFR[c] 141	EPA Primary Drinking Water Standard	X	n/a
EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites	EPA Regional Screening Levels for Tap Water	X	n/a
20 NMAC.3.4	New Mexico Environmental Improvement Board Radiation Protection Standards	X	X
20 NMAC 6.2	NMWQCC Groundwater Standard	X	n/a
20 NMAC 6.4	NMWQCC Irrigation Standard	n/a	X
20 NMAC 6.4	NMWQCC Livestock Watering Standard	n/a	X
20 NMAC 6.4	NMWQCC Wildlife Habitat Standard	n/a	X
20 NMAC 6.4	NMWQCC Aquatic Life Standards Acute	n/a	X
20 NMAC 6.4	NMWQCC Aquatic Life Standards Chronic	n/a	X
20 NMAC 6.4	NMWQCC Human Health Standard	n/a	X

[a] n/a = Not applicable.

[b] X = Applied to data screen for this report.

[c] CFR = Code of Federal Regulations.

Table 4.2-2
TA-54 Monitoring Group Groundwater Results above Screening Levels

Location	Date	Analyte	Field Prep Code	Result	Unit	Screening Level	Screening-Level Type
Intermediate Groundwater							
03-B-13	10/14/14	Aluminum	F[a]	7370	µg/L	5000	NMWQCC Groundwater Standard
03-B-13	10/14/14	Iron	F	4170	µg/L	1000	NMWQCC Groundwater Standard
03-B-13	10/14/14	Dioxane[1,4-]	UF[b]	21.5	µg/L	7.8	EPA Regional Tap
03-B-13	10/14/14	Trichloroethane[1,1,1-]	UF	72.3	µg/L	60	NMWQCC Groundwater Standard
R-23i S3	10/20/14	Strontium-90	UF	13.8	pCi/L	8	EPA MCL
R-40 Si	10/28/14	Manganese	F	258	µg/L	200	NMWQCC Groundwater Standard

[a] F = Filtered.

[b] UF = Unfiltered.

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	10/14/14	WG[a]	Dissolved Oxygen	0.99	mg/L	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Dissolved Oxygen	2.94	mg/L	CAPA-14-56383
03-B-13	21.5	12/19/13	WG	Dissolved Oxygen	0.45	mg/L	CAPA-14-49315
03-B-13	21.5	12/16/13	WG	Dissolved Oxygen	0.5	mg/L	CAPA-14-49316
03-B-13	21.5	04/23/13	WG	Dissolved Oxygen	0.08	mg/L	CAPA-13-29662
03-B-13	21.5	10/14/14	WG	Flow (in gpm[b])	0.05	gpm	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Flow (in gpm)	0.05	gpm	CAPA-14-56383
03-B-13	21.5	10/21/11	WG	Flow (in gpm)	0.08	gpm	CAPA-12-1132
03-B-13	21.5	07/11/11	WG	Flow (in gpm)	0.1	gpm	CAPA-11-22661
03-B-13	21.5	04/22/11	WG	Flow (in gpm)	0.11	gpm	CAPA-11-9562
03-B-13	21.5	10/14/14	WG	Oxidation-Reduction Potential	45	mV	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Oxidation-Reduction Potential	240.9	mV	CAPA-14-56383
03-B-13	21.5	12/19/13	WG	Oxidation-Reduction Potential	142.6	mV	CAPA-14-49315
03-B-13	21.5	12/16/13	WG	Oxidation-Reduction Potential	196.5	mV	CAPA-14-49316
03-B-13	21.5	04/23/13	WG	Oxidation-Reduction Potential	228.6	mV	CAPA-13-29662
03-B-13	21.5	10/14/14	WG	pH	5.71	SU[c]	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	pH	5.8	SU	CAPA-14-56383
03-B-13	21.5	12/19/13	WG	pH	5.97	SU	CAPA-14-49315
03-B-13	21.5	12/16/13	WG	pH	5.32	SU	CAPA-14-49316
03-B-13	21.5	04/23/13	WG	pH	5.92	SU	CAPA-13-29662
03-B-13	21.5	10/14/14	WG	Specific Conductance	270	µS/cm	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Specific Conductance	242	µS/cm	CAPA-14-56383
03-B-13	21.5	12/19/13	WG	Specific Conductance	208	µS/cm	CAPA-14-49315
03-B-13	21.5	12/16/13	WG	Specific Conductance	192	µS/cm	CAPA-14-49316
03-B-13	21.5	04/23/13	WG	Specific Conductance	140	µS/cm	CAPA-13-29662
03-B-13	21.5	10/14/14	WG	Temperature	14.66	deg C	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Temperature	12.52	deg C	CAPA-14-56383
03-B-13	21.5	12/19/13	WG	Temperature	12.63	deg C	CAPA-14-49315

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
03-B-13	21.5	12/16/13	WG	Temperature	13.58	deg C	CAPA-14-49316
03-B-13	21.5	04/23/13	WG	Temperature	13.56	deg C	CAPA-13-29662
03-B-13	21.5	10/14/14	WG	Turbidity	49.4	NTU[d]	CAPA-14-87121
03-B-13	21.5	04/14/14	WG	Turbidity	56.1	NTU	CAPA-14-56383
03-B-13	21.5	12/19/13	WG	Turbidity	45.5	NTU	CAPA-14-49315
03-B-13	21.5	12/16/13	WG	Turbidity	48	NTU	CAPA-14-49316
03-B-13	21.5	04/23/13	WG	Turbidity	21.7	NTU	CAPA-13-29662
PCI-2	512	10/27/14	WG	Dissolved Oxygen	8.07	mg/L	CAPA-14-89328
PCI-2	512	04/08/14	WG	Dissolved Oxygen	8.24	mg/L	CAPA-14-56387
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	10/27/14	WG	Flow (in gpm)	0.47	gpm	CAPA-14-89328
PCI-2	512	04/08/14	WG	Flow (in gpm)	0.47	gpm	CAPA-14-56387
PCI-2	512	07/22/11	WG	Flow (in gpm)	0.49	gpm	CAPA-11-22851
PCI-2	512	05/06/11	WG	Flow (in gpm)	0.5	gpm	CAPA-11-9283
PCI-2	512	10/11/10	WG	Flow (in gpm)	0.5	gpm	CAPA-10-26957
PCI-2	512	10/27/14	WG	Oxidation-Reduction Potential	162	mV	CAPA-14-89328
PCI-2	512	04/08/14	WG	Oxidation-Reduction Potential	131	mV	CAPA-14-56387
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	10/27/14	WG	pH	7.15	SU	CAPA-14-89328
PCI-2	512	04/08/14	WG	pH	7.45	SU	CAPA-14-56387
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	10/27/14	WG	Specific Conductance	109	µS/cm	CAPA-14-89328

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
PCI-2	512	04/08/14	WG	Specific Conductance	107	µS/cm	CAPA-14-56387
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	10/27/14	WG	Temperature	13.65	deg C	CAPA-14-89328
PCI-2	512	04/08/14	WG	Temperature	13.84	deg C	CAPA-14-56387
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	10/27/14	WG	Turbidity	1	NTU	CAPA-14-89328
PCI-2	512	04/08/14	WG	Turbidity	0.6	NTU	CAPA-14-56387
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
PCI-2	512	07/22/11	WG	Turbidity	0.89	NTU	CAPA-11-22851
R-20 S1	904.6	10/31/14	WG	Dissolved Oxygen	2.87	mg/L	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Dissolved Oxygen	2.38	mg/L	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Dissolved Oxygen	2.18	mg/L	CAPA-14-49376
R-20 S1	904.6	04/10/13	WG	Dissolved Oxygen	1.92	mg/L	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Dissolved Oxygen	1.4	mg/L	CAPA-12-23795
R-20 S1	904.6	10/31/14	WG	Flow (in gpm)	0.66	gpm	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Flow (in gpm)	0.7	gpm	CAPA-14-57731
R-20 S1	904.6	07/27/11	WG	Flow (in gpm)	0.46	gpm	CAPA-11-22877
R-20 S1	904.6	04/20/11	WG	Flow (in gpm)	0.38	gpm	CAPA-11-9309
R-20 S1	904.6	01/27/11	WG	Flow (in gpm)	0.15	gpm	CAPA-11-3007
R-20 S1	904.6	01/27/11	WG	Flow (in gpm)	0.2	gpm	CAPA-11-3484
R-20 S1	904.6	10/31/14	WG	Oxidation-Reduction Potential	19.3	mV	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Oxidation-Reduction Potential	-43.4	mV	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Oxidation-Reduction Potential	-19.2	mV	CAPA-14-49376

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20 S1	904.6	04/10/13	WG	Oxidation-Reduction Potential	-149.2	mV	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Oxidation-Reduction Potential	-85.7	mV	CAPA-12-23795
R-20 S1	904.6	10/31/14	WG	pH	8.38	SU	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	pH	8.26	SU	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	pH	8.28	SU	CAPA-14-49376
R-20 S1	904.6	04/10/13	WG	pH	8.43	SU	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	pH	8.38	SU	CAPA-12-23795
R-20 S1	904.6	10/31/14	WG	Specific Conductance	138	µS/cm	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Specific Conductance	140	µS/cm	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Specific Conductance	142	µS/cm	CAPA-14-49376
R-20 S1	904.6	04/10/13	WG	Specific Conductance	139	µS/cm	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Specific Conductance	143	µS/cm	CAPA-12-23795
R-20 S1	904.6	10/31/14	WG	Temperature	18.43	deg C	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Temperature	18.14	deg C	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Temperature	17.29	deg C	CAPA-14-49376
R-20 S1	904.6	04/10/13	WG	Temperature	17.7	deg C	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Temperature	17.97	deg C	CAPA-12-23795
R-20 S1	904.6	10/31/14	WG	Turbidity	6	NTU	CAPA-14-87182
R-20 S1	904.6	04/03/14	WG	Turbidity	2.43	NTU	CAPA-14-57731
R-20 S1	904.6	12/17/13	WG	Turbidity	0.3	NTU	CAPA-14-49376
R-20 S1	904.6	04/10/13	WG	Turbidity	1.1	NTU	CAPA-13-29560
R-20 S1	904.6	10/16/12	WG	Turbidity	1.97	NTU	CAPA-12-23795
R-20 S2	1147.1	10/20/14	WG	Dissolved Oxygen	2.65	mg/L	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Dissolved Oxygen	3.26	mg/L	CAPA-14-57732
R-20 S2	1147.1	12/06/13	WG	Dissolved Oxygen	2.5	mg/L	CAPA-14-49377
R-20 S2	1147.1	04/08/13	WG	Dissolved Oxygen	2.56	mg/L	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Dissolved Oxygen	3.28	mg/L	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Dissolved Oxygen	2.34	mg/L	CAPA-12-23796

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20 S2	1147.1	10/20/14	WG	Flow (in gpm)	1.6	gpm	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Flow (in gpm)	1.6	gpm	CAPA-14-57732
R-20 S2	1147.1	12/06/13	WG	Flow (in gpm)	1.6	gpm	CAPA-14-49377
R-20 S2	1147.1	10/27/11	WG	Flow (in gpm)	1.56	gpm	CAPA-12-1138
R-20 S2	1147.1	07/25/11	WG	Flow (in gpm)	1.4	gpm	CAPA-11-22881
R-20 S2	1147.1	10/20/14	WG	Oxidation-Reduction Potential	-14.3	mV	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Oxidation-Reduction Potential	-7.1	mV	CAPA-14-57732
R-20 S2	1147.1	12/06/13	WG	Oxidation-Reduction Potential	-20.9	mV	CAPA-14-49377
R-20 S2	1147.1	04/08/13	WG	Oxidation-Reduction Potential	-141	mV	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Oxidation-Reduction Potential	-118.7	mV	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Oxidation-Reduction Potential	-124.2	mV	CAPA-12-23796
R-20 S2	1147.1	10/20/14	WG	pH	7.69	SU	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	pH	7.83	SU	CAPA-14-57732
R-20 S2	1147.1	12/06/13	WG	pH	7.71	SU	CAPA-14-49377
R-20 S2	1147.1	04/08/13	WG	pH	7.93	SU	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	pH	7.95	SU	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	pH	7.88	SU	CAPA-12-23796
R-20 S2	1147.1	10/20/14	WG	Specific Conductance	148	µS/cm	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Specific Conductance	147	µS/cm	CAPA-14-57732
R-20 S2	1147.1	12/06/13	WG	Specific Conductance	147	µS/cm	CAPA-14-49377
R-20 S2	1147.1	04/08/13	WG	Specific Conductance	140	µS/cm	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Specific Conductance	132	µS/cm	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Specific Conductance	136	µS/cm	CAPA-12-23796
R-20 S2	1147.1	10/20/14	WG	Temperature	19.98	deg C	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Temperature	20.58	deg C	CAPA-14-57732
R-20 S2	1147.1	12/06/13	WG	Temperature	17.8	deg C	CAPA-14-49377
R-20 S2	1147.1	04/08/13	WG	Temperature	19.47	deg C	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Temperature	20.06	deg C	CAPA-13-30294

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20 S2	1147.1	10/17/12	WG	Temperature	20.02	deg C	CAPA-12-23796
R-20 S2	1147.1	10/20/14	WG	Turbidity	0.45	NTU	CAPA-14-87183
R-20 S2	1147.1	04/01/14	WG	Turbidity	0.8	NTU	CAPA-14-57732
R-20 S2	1147.1	12/06/13	WG	Turbidity	0.2	NTU	CAPA-14-49377
R-20 S2	1147.1	04/08/13	WG	Turbidity	0.16	NTU	CAPA-13-29561
R-20 S2	1147.1	04/08/13	WG	Turbidity	0.22	NTU	CAPA-13-30294
R-20 S2	1147.1	10/17/12	WG	Turbidity	0.51	NTU	CAPA-12-23796
R-21	888.8	10/23/14	WG	Dissolved Oxygen	6.2	mg/L	CAMO-14-87134
R-21	888.8	04/11/14	WG	Dissolved Oxygen	6.29	mg/L	CAMO-14-57540
R-21	888.8	12/09/13	WG	Dissolved Oxygen	6.4	mg/L	CAMO-14-49327
R-21	888.8	04/22/13	WG	Dissolved Oxygen	6.24	mg/L	CAMO-13-29625
R-21	888.8	10/15/12	WG	Dissolved Oxygen	7.98	mg/L	CAMO-12-23851
R-21	888.8	10/23/14	WG	Flow (in gpm)	3.1	gpm	CAMO-14-87134
R-21	888.8	04/11/14	WG	Flow (in gpm)	3.06	gpm	CAMO-14-57540
R-21	888.8	11/03/11	WG	Flow (in gpm)	3.2	gpm	CAPA-12-1173
R-21	888.8	07/21/11	WG	Flow (in gpm)	3.2	gpm	CAPA-11-22884
R-21	888.8	04/19/11	WG	Flow (in gpm)	3.4	gpm	CAPA-11-9316
R-21	888.8	10/23/14	WG	Oxidation-Reduction Potential	152.8	mV	CAMO-14-87134
R-21	888.8	04/11/14	WG	Oxidation-Reduction Potential	16.6	mV	CAMO-14-57540
R-21	888.8	12/09/13	WG	Oxidation-Reduction Potential	91.4	mV	CAMO-14-49327
R-21	888.8	04/22/13	WG	Oxidation-Reduction Potential	121.8	mV	CAMO-13-29625
R-21	888.8	10/15/12	WG	Oxidation-Reduction Potential	61.8	mV	CAMO-12-23851
R-21	888.8	10/23/14	WG	pH	7.81	SU	CAMO-14-87134
R-21	888.8	04/11/14	WG	pH	7.91	SU	CAMO-14-57540
R-21	888.8	12/09/13	WG	pH	7.98	SU	CAMO-14-49327
R-21	888.8	04/22/13	WG	pH	7.93	SU	CAMO-13-29625
R-21	888.8	10/15/12	WG	pH	7.98	SU	CAMO-12-23851
R-21	888.8	10/23/14	WG	Specific Conductance	128	µS/cm	CAMO-14-87134

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-21	888.8	04/11/14	WG	Specific Conductance	126	µS/cm	CAMO-14-57540
R-21	888.8	12/09/13	WG	Specific Conductance	126	µS/cm	CAMO-14-49327
R-21	888.8	04/22/13	WG	Specific Conductance	124	µS/cm	CAMO-13-29625
R-21	888.8	10/15/12	WG	Specific Conductance	122	µS/cm	CAMO-12-23851
R-21	888.8	10/23/14	WG	Temperature	21.66	deg C	CAMO-14-87134
R-21	888.8	04/11/14	WG	Temperature	21.42	deg C	CAMO-14-57540
R-21	888.8	12/09/13	WG	Temperature	19.93	deg C	CAMO-14-49327
R-21	888.8	04/22/13	WG	Temperature	21.99	deg C	CAMO-13-29625
R-21	888.8	10/15/12	WG	Temperature	21.33	deg C	CAMO-12-23851
R-21	888.8	10/23/14	WG	Turbidity	0.43	NTU	CAMO-14-87134
R-21	888.8	04/11/14	WG	Turbidity	0.23	NTU	CAMO-14-57540
R-21	888.8	12/09/13	WG	Turbidity	0	NTU	CAMO-14-49327
R-21	888.8	04/22/13	WG	Turbidity	0	NTU	CAMO-13-29625
R-21	888.8	10/15/12	WG	Turbidity	0.2	NTU	CAMO-12-23851
R-23	816	10/17/14	WG	Dissolved Oxygen	6.86	mg/L	CAPA-14-87184
R-23	816	07/14/14	WG	Dissolved Oxygen	6.79	mg/L	CAPA-14-81480
R-23	816	04/04/14	WG	Dissolved Oxygen	6.79	mg/L	CAPA-14-57733
R-23	816	01/07/14	WG	Dissolved Oxygen	6.71	mg/L	CAPA-14-49709
R-23	816	12/04/13	WG	Dissolved Oxygen	6.86	mg/L	CAPA-14-49378
R-23	816	10/17/14	WG	Flow (in gpm)	10.7	gpm	CAPA-14-87184
R-23	816	07/14/14	WG	Flow (in gpm)	11.1	gpm	CAPA-14-81480
R-23	816	04/04/14	WG	Flow (in gpm)	11.1	gpm	CAPA-14-57733
R-23	816	01/07/14	WG	Flow (in gpm)	10	gpm	CAPA-14-49709
R-23	816	12/04/13	WG	Flow (in gpm)	10	gpm	CAPA-14-49378
R-23	816	10/17/14	WG	Oxidation-Reduction Potential	160	mV	CAPA-14-87184
R-23	816	07/14/14	WG	Oxidation-Reduction Potential	91.6	mV	CAPA-14-81480
R-23	816	04/04/14	WG	Oxidation-Reduction Potential	84.8	mV	CAPA-14-57733
R-23	816	01/07/14	WG	Oxidation-Reduction Potential	125.2	mV	CAPA-14-49709

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23	816	12/04/13	WG	Oxidation-Reduction Potential	155.6	mV	CAPA-14-49378
R-23	816	10/17/14	WG	pH	8.08	SU	CAPA-14-87184
R-23	816	07/14/14	WG	pH	8.04	SU	CAPA-14-81480
R-23	816	04/04/14	WG	pH	8.06	SU	CAPA-14-57733
R-23	816	01/07/14	WG	pH	8.12	SU	CAPA-14-49709
R-23	816	12/04/13	WG	pH	8.01	SU	CAPA-14-49378
R-23	816	10/17/14	WG	Specific Conductance	171	µS/cm	CAPA-14-87184
R-23	816	07/14/14	WG	Specific Conductance	175	µS/cm	CAPA-14-81480
R-23	816	04/04/14	WG	Specific Conductance	172	µS/cm	CAPA-14-57733
R-23	816	01/07/14	WG	Specific Conductance	169	µS/cm	CAPA-14-49709
R-23	816	12/04/13	WG	Specific Conductance	168	µS/cm	CAPA-14-49378
R-23	816	10/17/14	WG	Temperature	21.46	deg C	CAPA-14-87184
R-23	816	07/14/14	WG	Temperature	22.01	deg C	CAPA-14-81480
R-23	816	04/04/14	WG	Temperature	21.4	deg C	CAPA-14-57733
R-23	816	01/07/14	WG	Temperature	21.5	deg C	CAPA-14-49709
R-23	816	12/04/13	WG	Temperature	20.77	deg C	CAPA-14-49378
R-23	816	10/17/14	WG	Turbidity	0.8	NTU	CAPA-14-87184
R-23	816	07/14/14	WG	Turbidity	0.5	NTU	CAPA-14-81480
R-23	816	04/04/14	WG	Turbidity	0	NTU	CAPA-14-57733
R-23	816	01/07/14	WG	Turbidity	0	NTU	CAPA-14-49709
R-23	816	12/04/13	WG	Turbidity	0.4	NTU	CAPA-14-49378
R-23i S1	400.3	10/20/14	WG	Dissolved Oxygen	6.78	mg/L	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Dissolved Oxygen	6.54	mg/L	CAPA-14-57734
R-23i S1	400.3	12/03/13	WG	Dissolved Oxygen	6.59	mg/L	CAPA-14-49379
R-23i S1	400.3	04/22/13	WG	Dissolved Oxygen	6.61	mg/L	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Dissolved Oxygen	6.93	mg/L	CAPA-12-23798
R-23i S1	400.3	10/20/14	WG	Flow (in gpm)	1	gpm	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Flow (in gpm)	1.3	gpm	CAPA-14-57734

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S1	400.3	11/04/11	WG	Flow (in gpm)	0.9	gpm	CAPA-12-1113
R-23i S1	400.3	07/25/11	WG	Flow (in gpm)	0.4	gpm	CAPA-11-22843
R-23i S1	400.3	04/28/11	WG	Flow (in gpm)	0.8	gpm	CAPA-11-9568
R-23i S1	400.3	10/20/14	WG	Oxidation-Reduction Potential	-45.9	mV	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Oxidation-Reduction Potential	86.3	mV	CAPA-14-57734
R-23i S1	400.3	12/03/13	WG	Oxidation-Reduction Potential	130	mV	CAPA-14-49379
R-23i S1	400.3	04/22/13	WG	Oxidation-Reduction Potential	237.7	mV	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Oxidation-Reduction Potential	248.3	mV	CAPA-12-23798
R-23i S1	400.3	10/20/14	WG	pH	7.55	SU	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	pH	7.51	SU	CAPA-14-57734
R-23i S1	400.3	12/03/13	WG	pH	7.49	SU	CAPA-14-49379
R-23i S1	400.3	04/22/13	WG	pH	7.66	SU	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	pH	7.78	SU	CAPA-12-23798
R-23i S1	400.3	10/20/14	WG	Specific Conductance	308	µS/cm	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Specific Conductance	411	µS/cm	CAPA-14-57734
R-23i S1	400.3	12/03/13	WG	Specific Conductance	368	µS/cm	CAPA-14-49379
R-23i S1	400.3	04/22/13	WG	Specific Conductance	279	µS/cm	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Specific Conductance	282	µS/cm	CAPA-12-23798
R-23i S1	400.3	10/20/14	WG	Temperature	15.19	deg C	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Temperature	15.15	deg C	CAPA-14-57734
R-23i S1	400.3	12/03/13	WG	Temperature	15.06	deg C	CAPA-14-49379
R-23i S1	400.3	04/22/13	WG	Temperature	14.81	deg C	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Temperature	15.77	deg C	CAPA-12-23798
R-23i S1	400.3	10/20/14	WG	Turbidity	2.8	NTU	CAPA-14-87185
R-23i S1	400.3	04/16/14	WG	Turbidity	8.5	NTU	CAPA-14-57734
R-23i S1	400.3	12/03/13	WG	Turbidity	4.5	NTU	CAPA-14-49379
R-23i S1	400.3	04/22/13	WG	Turbidity	23.3	NTU	CAPA-13-29563
R-23i S1	400.3	10/09/12	WG	Turbidity	4.94	NTU	CAPA-12-23798

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S2	470.2	10/29/14	WG	Dissolved Oxygen	6.41	mg/L	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Dissolved Oxygen	6	mg/L	CAPA-14-57735
R-23i S2	470.2	12/03/13	WG	Dissolved Oxygen	6.15	mg/L	CAPA-14-49380
R-23i S2	470.2	04/22/13	WG	Dissolved Oxygen	5.97	mg/L	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Dissolved Oxygen	5.77	mg/L	CAPA-12-23799
R-23i S2	470.2	10/29/14	WG	Flow (in gpm)	1.17	gpm	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Flow (in gpm)	1.2	gpm	CAPA-14-57735
R-23i S2	470.2	10/20/11	WG	Flow (in gpm)	1.2	gpm	CAPA-12-1119
R-23i S2	470.2	07/26/11	WG	Flow (in gpm)	1.1	gpm	CAPA-11-22677
R-23i S2	470.2	05/03/11	WG	Flow (in gpm)	1.05	gpm	CAPA-11-9574
R-23i S2	470.2	10/29/14	WG	Oxidation-Reduction Potential	165.2	mV	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Oxidation-Reduction Potential	120.3	mV	CAPA-14-57735
R-23i S2	470.2	12/03/13	WG	Oxidation-Reduction Potential	119	mV	CAPA-14-49380
R-23i S2	470.2	04/22/13	WG	Oxidation-Reduction Potential	198.7	mV	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Oxidation-Reduction Potential	166	mV	CAPA-12-23799
R-23i S2	470.2	10/29/14	WG	pH	8.2	SU	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	pH	8.13	SU	CAPA-14-57735
R-23i S2	470.2	12/03/13	WG	pH	7.95	SU	CAPA-14-49380
R-23i S2	470.2	04/22/13	WG	pH	8.15	SU	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	pH	8.18	SU	CAPA-12-23799
R-23i S2	470.2	10/29/14	WG	Specific Conductance	205	µS/cm	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Specific Conductance	2.04	µS/cm	CAPA-14-57735
R-23i S2	470.2	12/03/13	WG	Specific Conductance	205	µS/cm	CAPA-14-49380
R-23i S2	470.2	04/22/13	WG	Specific Conductance	202	µS/cm	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Specific Conductance	184	µS/cm	CAPA-12-23799
R-23i S2	470.2	10/29/14	WG	Temperature	16.02	deg C	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Temperature	16.41	deg C	CAPA-14-57735
R-23i S2	470.2	12/03/13	WG	Temperature	15.64	deg C	CAPA-14-49380

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S2	470.2	04/22/13	WG	Temperature	15.5	deg C	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Temperature	15.59	deg C	CAPA-12-23799
R-23i S2	470.2	10/29/14	WG	Turbidity	1.3	NTU	CAPA-14-87186
R-23i S2	470.2	04/16/14	WG	Turbidity	1.2	NTU	CAPA-14-57735
R-23i S2	470.2	12/03/13	WG	Turbidity	6.7	NTU	CAPA-14-49380
R-23i S2	470.2	04/22/13	WG	Turbidity	7.8	NTU	CAPA-13-29564
R-23i S2	470.2	10/17/12	WG	Turbidity	0.46	NTU	CAPA-12-23799
R-23i S3	524	10/20/14	WG	Dissolved Oxygen	6.92	mg/L	CAPA-14-87187
R-23i S3	524	04/04/14	WG	Dissolved Oxygen	7.11	mg/L	CAPA-14-57736
R-23i S3	524	12/04/13	WG	Dissolved Oxygen	6.74	mg/L	CAPA-14-49381
R-23i S3	524	04/23/13	WG	Dissolved Oxygen	7.46	mg/L	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Dissolved Oxygen	6.79	mg/L	CAPA-12-23800
R-23i S3	524	10/20/14	WG	Flow (in gpm)	1.54	gpm	CAPA-14-87187
R-23i S3	524	04/04/14	WG	Flow (in gpm)	1.66	gpm	CAPA-14-57736
R-23i S3	524	12/04/13	WG	Flow (in gpm)	1.6	gpm	CAPA-14-49381
R-23i S3	524	10/26/11	WG	Flow (in gpm)	1.9	gpm	CAPA-12-1121
R-23i S3	524	07/29/11	WG	Flow (in gpm)	1.5	gpm	CAPA-11-14694
R-23i S3	524	07/29/11	WG	Flow (in gpm)	1.5	gpm	CAPA-11-14696
R-23i S3	524	07/29/11	WG	Flow (in gpm)	1.5	gpm	CAPA-11-14698
R-23i S3	524	07/29/11	WG	Flow (in gpm)	1.5	gpm	CAPA-11-22845
R-23i S3	524	10/20/14	WG	Oxidation-Reduction Potential	99.9	mV	CAPA-14-87187
R-23i S3	524	04/04/14	WG	Oxidation-Reduction Potential	87.8	mV	CAPA-14-57736
R-23i S3	524	12/04/13	WG	Oxidation-Reduction Potential	84.5	mV	CAPA-14-49381
R-23i S3	524	04/23/13	WG	Oxidation-Reduction Potential	180.2	mV	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Oxidation-Reduction Potential	47.1	mV	CAPA-12-23800
R-23i S3	524	10/20/14	WG	pH	8.28	SU	CAPA-14-87187
R-23i S3	524	04/04/14	WG	pH	8.18	SU	CAPA-14-57736
R-23i S3	524	12/04/13	WG	pH	8.13	SU	CAPA-14-49381

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i S3	524	04/23/13	WG	pH	8.17	SU	CAPA-13-29565
R-23i S3	524	10/10/12	WG	pH	8.21	SU	CAPA-12-23800
R-23i S3	524	10/20/14	WG	Specific Conductance	202	µS/cm	CAPA-14-87187
R-23i S3	524	04/04/14	WG	Specific Conductance	202	µS/cm	CAPA-14-57736
R-23i S3	524	12/04/13	WG	Specific Conductance	201	µS/cm	CAPA-14-49381
R-23i S3	524	04/23/13	WG	Specific Conductance	192	µS/cm	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Specific Conductance	191	µS/cm	CAPA-12-23800
R-23i S3	524	10/20/14	WG	Temperature	17.99	deg C	CAPA-14-87187
R-23i S3	524	04/04/14	WG	Temperature	17.14	deg C	CAPA-14-57736
R-23i S3	524	12/04/13	WG	Temperature	16.2	deg C	CAPA-14-49381
R-23i S3	524	04/23/13	WG	Temperature	17.08	deg C	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Temperature	17.25	deg C	CAPA-12-23800
R-23i S3	524	10/20/14	WG	Turbidity	1.4	NTU	CAPA-14-87187
R-23i S3	524	04/04/14	WG	Turbidity	0.4	NTU	CAPA-14-57736
R-23i S3	524	12/04/13	WG	Turbidity	0.9	NTU	CAPA-14-49381
R-23i S3	524	04/23/13	WG	Turbidity	0.5	NTU	CAPA-13-29565
R-23i S3	524	10/10/12	WG	Turbidity	1.64	NTU	CAPA-12-23800
R-32 S1	867.5	10/21/14	WG	Dissolved Oxygen	4.21	mg/L	CAPA-14-87188
R-32 S1	867.5	04/04/14	WG	Dissolved Oxygen	4.32	mg/L	CAPA-14-57737
R-32 S1	867.5	12/04/13	WG	Dissolved Oxygen	4.03	mg/L	CAPA-14-49382
R-32 S1	867.5	04/09/13	WG	Dissolved Oxygen	4.08	mg/L	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Dissolved Oxygen	4.14	mg/L	CAPA-12-23801
R-32 S1	867.5	10/21/14	WG	Flow (in gpm)	2.2	gpm	CAPA-14-87188
R-32 S1	867.5	04/04/14	WG	Flow (in gpm)	2.27	gpm	CAPA-14-57737
R-32 S1	867.5	12/04/13	WG	Flow (in gpm)	2.24	gpm	CAPA-14-49382
R-32 S1	867.5	10/20/11	WG	Flow (in gpm)	2	gpm	CAPA-12-1143
R-32 S1	867.5	07/27/11	WG	Flow (in gpm)	2	gpm	CAPA-11-14782
R-32 S1	867.5	07/27/11	WG	Flow (in gpm)	2	gpm	CAPA-11-22695

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-32 S1	867.5	07/27/11	WG	Flow (in gpm)	2	gpm	CAPA-11-14778
R-32 S1	867.5	07/27/11	WG	Flow (in gpm)	2	gpm	CAPA-11-14780
R-32 S1	867.5	10/21/14	WG	Oxidation-Reduction Potential	50.7	mV	CAPA-14-87188
R-32 S1	867.5	04/04/14	WG	Oxidation-Reduction Potential	62.7	mV	CAPA-14-57737
R-32 S1	867.5	12/04/13	WG	Oxidation-Reduction Potential	45.3	mV	CAPA-14-49382
R-32 S1	867.5	04/09/13	WG	Oxidation-Reduction Potential	23.5	mV	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Oxidation-Reduction Potential	133.7	mV	CAPA-12-23801
R-32 S1	867.5	10/21/14	WG	pH	6.78	SU	CAPA-14-87188
R-32 S1	867.5	04/04/14	WG	pH	6.89	SU	CAPA-14-57737
R-32 S1	867.5	12/04/13	WG	pH	6.9	SU	CAPA-14-49382
R-32 S1	867.5	04/09/13	WG	pH	6.91	SU	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	pH	6.94	SU	CAPA-12-23801
R-32 S1	867.5	10/21/14	WG	Specific Conductance	169	µS/cm	CAPA-14-87188
R-32 S1	867.5	04/04/14	WG	Specific Conductance	168	µS/cm	CAPA-14-57737
R-32 S1	867.5	12/04/13	WG	Specific Conductance	167	µS/cm	CAPA-14-49382
R-32 S1	867.5	04/09/13	WG	Specific Conductance	164	µS/cm	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Specific Conductance	169	µS/cm	CAPA-12-23801
R-32 S1	867.5	10/21/14	WG	Temperature	18.85	deg C	CAPA-14-87188
R-32 S1	867.5	04/04/14	WG	Temperature	18.18	deg C	CAPA-14-57737
R-32 S1	867.5	12/04/13	WG	Temperature	18.11	deg C	CAPA-14-49382
R-32 S1	867.5	04/09/13	WG	Temperature	16.1	deg C	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Temperature	18.77	deg C	CAPA-12-23801
R-32 S1	867.5	10/21/14	WG	Turbidity	0.54	NTU	CAPA-14-87188
R-32 S1	867.5	04/04/14	WG	Turbidity	0.7	NTU	CAPA-14-57737
R-32 S1	867.5	12/04/13	WG	Turbidity	0.53	NTU	CAPA-14-49382
R-32 S1	867.5	04/09/13	WG	Turbidity	0.3	NTU	CAPA-13-29566
R-32 S1	867.5	10/19/12	WG	Turbidity	0.9	NTU	CAPA-12-23801
R-37 S1	929.3	10/15/14	WG	Dissolved Oxygen	2.74	mg/L	CAMO-14-87135

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37 S1	929.3	07/10/14	WG	Dissolved Oxygen	2.53	mg/L	CAMO-14-81467
R-37 S1	929.3	06/10/14	WG	Dissolved Oxygen	2.61	mg/L	CAMO-14-57541
R-37 S1	929.3	12/05/13	WG	Dissolved Oxygen	1.9	mg/L	CAMO-14-49328
R-37 S1	929.3	07/11/13	WG	Dissolved Oxygen	1.97	mg/L	CAMO-13-36941
R-37 S1	929.3	10/15/14	WG	Flow (in gpm)	0.71	gpm	CAMO-14-87135
R-37 S1	929.3	07/10/14	WG	Flow (in gpm)	0.71	gpm	CAMO-14-81467
R-37 S1	929.3	06/10/14	WG	Flow (in gpm)	0.74	gpm	CAMO-14-57541
R-37 S1	929.3	10/28/11	WG	Flow (in gpm)	0.76	gpm	CAPA-12-1127
R-37 S1	929.3	07/19/11	WG	Flow (in gpm)	0.8	gpm	CAPA-11-22854
R-37 S1	929.3	10/15/14	WG	Oxidation-Reduction Potential	-24.1	mV	CAMO-14-87135
R-37 S1	929.3	07/10/14	WG	Oxidation-Reduction Potential	47.7	mV	CAMO-14-81467
R-37 S1	929.3	06/10/14	WG	Oxidation-Reduction Potential	59	mV	CAMO-14-57541
R-37 S1	929.3	12/05/13	WG	Oxidation-Reduction Potential	129.3	mV	CAMO-14-49328
R-37 S1	929.3	07/11/13	WG	Oxidation-Reduction Potential	154.5	mV	CAMO-13-36941
R-37 S1	929.3	10/15/14	WG	pH	8.15	SU	CAMO-14-87135
R-37 S1	929.3	07/10/14	WG	pH	8.28	SU	CAMO-14-81467
R-37 S1	929.3	06/10/14	WG	pH	8.19	SU	CAMO-14-57541
R-37 S1	929.3	12/05/13	WG	pH	8.3	SU	CAMO-14-49328
R-37 S1	929.3	07/11/13	WG	pH	8.31	SU	CAMO-13-36941
R-37 S1	929.3	10/15/14	WG	Specific Conductance	230	µS/cm	CAMO-14-87135
R-37 S1	929.3	07/10/14	WG	Specific Conductance	236	µS/cm	CAMO-14-81467
R-37 S1	929.3	06/10/14	WG	Specific Conductance	237	µS/cm	CAMO-14-57541
R-37 S1	929.3	12/05/13	WG	Specific Conductance	234	µS/cm	CAMO-14-49328
R-37 S1	929.3	07/11/13	WG	Specific Conductance	223	µS/cm	CAMO-13-36941
R-37 S1	929.3	10/15/14	WG	Temperature	18.08	deg C	CAMO-14-87135
R-37 S1	929.3	07/10/14	WG	Temperature	18.56	deg C	CAMO-14-81467
R-37 S1	929.3	06/10/14	WG	Temperature	18.31	deg C	CAMO-14-57541
R-37 S1	929.3	12/05/13	WG	Temperature	17.22	deg C	CAMO-14-49328

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37 S1	929.3	07/11/13	WG	Temperature	19.58	deg C	CAMO-13-36941
R-37 S1	929.3	10/15/14	WG	Turbidity	0.78	NTU	CAMO-14-87135
R-37 S1	929.3	07/10/14	WG	Turbidity	0.6	NTU	CAMO-14-81467
R-37 S1	929.3	06/10/14	WG	Turbidity	0.9	NTU	CAMO-14-57541
R-37 S1	929.3	12/05/13	WG	Turbidity	0.19	NTU	CAMO-14-49328
R-37 S1	929.3	07/11/13	WG	Turbidity	0.1	NTU	CAMO-13-36941
R-37 S2	1026	10/14/14	WG	Dissolved Oxygen	7.43	mg/L	CAMO-14-87136
R-37 S2	1026	07/09/14	WG	Dissolved Oxygen	7.53	mg/L	CAMO-14-81468
R-37 S2	1026	04/16/14	WG	Dissolved Oxygen	6.58	mg/L	CAMO-14-57542
R-37 S2	1026	01/07/14	WG	Dissolved Oxygen	7.5	mg/L	CAMO-14-49724
R-37 S2	1026	12/06/13	WG	Dissolved Oxygen	7.44	mg/L	CAMO-14-49329
R-37 S2	1026	10/14/14	WG	Flow (in gpm)	10	gpm	CAMO-14-87136
R-37 S2	1026	07/09/14	WG	Flow (in gpm)	10	gpm	CAMO-14-81468
R-37 S2	1026	04/16/14	WG	Flow (in gpm)	10	gpm	CAMO-14-57542
R-37 S2	1026	01/07/14	WG	Flow (in gpm)	9.37	gpm	CAMO-14-49724
R-37 S2	1026	12/06/13	WG	Flow (in gpm)	10	gpm	CAMO-14-49329
R-37 S2	1026	10/14/14	WG	Oxidation-Reduction Potential	58	mV	CAMO-14-87136
R-37 S2	1026	07/09/14	WG	Oxidation-Reduction Potential	54.4	mV	CAMO-14-81468
R-37 S2	1026	04/16/14	WG	Oxidation-Reduction Potential	120.4	mV	CAMO-14-57542
R-37 S2	1026	01/07/14	WG	Oxidation-Reduction Potential	-35.6	mV	CAMO-14-49724
R-37 S2	1026	12/06/13	WG	Oxidation-Reduction Potential	136.4	mV	CAMO-14-49329
R-37 S2	1026	10/14/14	WG	pH	7.95	SU	CAMO-14-87136
R-37 S2	1026	07/09/14	WG	pH	7.84	SU	CAMO-14-81468
R-37 S2	1026	04/16/14	WG	pH	7.93	SU	CAMO-14-57542
R-37 S2	1026	01/07/14	WG	pH	7.78	SU	CAMO-14-49724
R-37 S2	1026	12/06/13	WG	pH	8	SU	CAMO-14-49329
R-37 S2	1026	10/14/14	WG	Specific Conductance	139	µS/cm	CAMO-14-87136
R-37 S2	1026	07/09/14	WG	Specific Conductance	139	µS/cm	CAMO-14-81468

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37 S2	1026	04/16/14	WG	Specific Conductance	133	µS/cm	CAMO-14-57542
R-37 S2	1026	01/07/14	WG	Specific Conductance	133	µS/cm	CAMO-14-49724
R-37 S2	1026	12/06/13	WG	Specific Conductance	134	µS/cm	CAMO-14-49329
R-37 S2	1026	10/14/14	WG	Temperature	22.83	deg C	CAMO-14-87136
R-37 S2	1026	07/09/14	WG	Temperature	21.6	deg C	CAMO-14-81468
R-37 S2	1026	04/16/14	WG	Temperature	21.3	deg C	CAMO-14-57542
R-37 S2	1026	01/07/14	WG	Temperature	18.37	deg C	CAMO-14-49724
R-37 S2	1026	12/06/13	WG	Temperature	18.82	deg C	CAMO-14-49329
R-37 S2	1026	10/14/14	WG	Turbidity	1.4	NTU	CAMO-14-87136
R-37 S2	1026	07/09/14	WG	Turbidity	0.6	NTU	CAMO-14-81468
R-37 S2	1026	04/16/14	WG	Turbidity	0.4	NTU	CAMO-14-57542
R-37 S2	1026	01/07/14	WG	Turbidity	0.6	NTU	CAMO-14-49724
R-37 S2	1026	12/06/13	WG	Turbidity	0.37	NTU	CAMO-14-49329
R-38	821.2	10/28/14	WG	Dissolved Oxygen	6.43	mg/L	CAMO-14-87137
R-38	821.2	04/01/14	WG	Dissolved Oxygen	6.43	mg/L	CAMO-14-57543
R-38	821.2	12/02/13	WG	Dissolved Oxygen	6.53	mg/L	CAMO-14-49330
R-38	821.2	04/11/13	WG	Dissolved Oxygen	6.63	mg/L	CAMO-13-29628
R-38	821.2	10/09/12	WG	Dissolved Oxygen	6.72	mg/L	CAMO-12-23861
R-38	821.2	10/28/14	WG	Flow (in gpm)	2.5	gpm	CAMO-14-87137
R-38	821.2	04/01/14	WG	Flow (in gpm)	2.7	gpm	CAMO-14-57543
R-38	821.2	10/25/11	WG	Flow (in gpm)	2.72	gpm	CAPA-12-1181
R-38	821.2	07/26/11	WG	Flow (in gpm)	2.5	gpm	CAPA-11-22889
R-38	821.2	05/06/11	WG	Flow (in gpm)	2.4	gpm	CAPA-11-9325
R-38	821.2	10/28/14	WG	Oxidation-Reduction Potential	82.3	mV	CAMO-14-87137
R-38	821.2	04/01/14	WG	Oxidation-Reduction Potential	74.7	mV	CAMO-14-57543
R-38	821.2	12/02/13	WG	Oxidation-Reduction Potential	46.7	mV	CAMO-14-49330
R-38	821.2	04/11/13	WG	Oxidation-Reduction Potential	-115.2	mV	CAMO-13-29628
R-38	821.2	10/09/12	WG	Oxidation-Reduction Potential	78.7	mV	CAMO-12-23861

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-38	821.2	10/28/14	WG	pH	7.03	SU	CAMO-14-87137
R-38	821.2	04/01/14	WG	pH	7.11	SU	CAMO-14-57543
R-38	821.2	12/02/13	WG	pH	6.95	SU	CAMO-14-49330
R-38	821.2	04/11/13	WG	pH	7.19	SU	CAMO-13-29628
R-38	821.2	10/09/12	WG	pH	7.26	SU	CAMO-12-23861
R-38	821.2	10/28/14	WG	Specific Conductance	141	µS/cm	CAMO-14-87137
R-38	821.2	04/01/14	WG	Specific Conductance	141	µS/cm	CAMO-14-57543
R-38	821.2	12/02/13	WG	Specific Conductance	141	µS/cm	CAMO-14-49330
R-38	821.2	04/11/13	WG	Specific Conductance	136	µS/cm	CAMO-13-29628
R-38	821.2	10/09/12	WG	Specific Conductance	138	µS/cm	CAMO-12-23861
R-38	821.2	10/28/14	WG	Temperature	18.14	deg C	CAMO-14-87137
R-38	821.2	04/01/14	WG	Temperature	19.05	deg C	CAMO-14-57543
R-38	821.2	12/02/13	WG	Temperature	18.2	deg C	CAMO-14-49330
R-38	821.2	04/11/13	WG	Temperature	17.93	deg C	CAMO-13-29628
R-38	821.2	10/09/12	WG	Temperature	18.41	deg C	CAMO-12-23861
R-38	821.2	10/28/14	WG	Turbidity	0.63	NTU	CAMO-14-87137
R-38	821.2	04/01/14	WG	Turbidity	1.2	NTU	CAMO-14-57543
R-38	821.2	12/02/13	WG	Turbidity	0.9	NTU	CAMO-14-49330
R-38	821.2	04/11/13	WG	Turbidity	1.5	NTU	CAMO-13-29628
R-38	821.2	10/09/12	WG	Turbidity	0.61	NTU	CAMO-12-23861
R-39	859	10/21/14	WG	Dissolved Oxygen	6.82	mg/L	CAPA-14-87189
R-39	859	07/14/14	WG	Dissolved Oxygen	6.78	mg/L	CAPA-14-81481
R-39	859	04/14/14	WG	Dissolved Oxygen	6.58	mg/L	CAPA-14-57738
R-39	859	01/24/14	WG	Dissolved Oxygen	6.95	mg/L	CAPA-14-49710
R-39	859	12/16/13	WG	Dissolved Oxygen	6.82	mg/L	CAPA-14-49383
R-39	859	10/21/14	WG	Flow (in gpm)	3.1	gpm	CAPA-14-87189
R-39	859	07/14/14	WG	Flow (in gpm)	3.16	gpm	CAPA-14-81481
R-39	859	04/14/14	WG	Flow (in gpm)	3.03	gpm	CAPA-14-57738

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-39	859	01/24/14	WG	Flow (in gpm)	2.8	gpm	CAPA-14-49710
R-39	859	12/16/13	WG	Flow (in gpm)	3	gpm	CAPA-14-49383
R-39	859	10/21/14	WG	Oxidation-Reduction Potential	142.9	mV	CAPA-14-87189
R-39	859	07/14/14	WG	Oxidation-Reduction Potential	98	mV	CAPA-14-81481
R-39	859	04/14/14	WG	Oxidation-Reduction Potential	134.1	mV	CAPA-14-57738
R-39	859	01/24/14	WG	Oxidation-Reduction Potential	150.5	mV	CAPA-14-49710
R-39	859	12/16/13	WG	Oxidation-Reduction Potential	182.3	mV	CAPA-14-49383
R-39	859	10/21/14	WG	pH	8.22	SU	CAPA-14-87189
R-39	859	07/14/14	WG	pH	8.14	SU	CAPA-14-81481
R-39	859	04/14/14	WG	pH	8.11	SU	CAPA-14-57738
R-39	859	01/24/14	WG	pH	8.08	SU	CAPA-14-49710
R-39	859	12/16/13	WG	pH	7.87	SU	CAPA-14-49383
R-39	859	10/21/14	WG	Specific Conductance	143	µS/cm	CAPA-14-87189
R-39	859	07/14/14	WG	Specific Conductance	144	µS/cm	CAPA-14-81481
R-39	859	04/14/14	WG	Specific Conductance	140	µS/cm	CAPA-14-57738
R-39	859	01/24/14	WG	Specific Conductance	144	µS/cm	CAPA-14-49710
R-39	859	12/16/13	WG	Specific Conductance	140	µS/cm	CAPA-14-49383
R-39	859	10/21/14	WG	Temperature	22.15	deg C	CAPA-14-87189
R-39	859	07/14/14	WG	Temperature	22.78	deg C	CAPA-14-81481
R-39	859	04/14/14	WG	Temperature	18.32	deg C	CAPA-14-57738
R-39	859	01/24/14	WG	Temperature	21.59	deg C	CAPA-14-49710
R-39	859	12/16/13	WG	Temperature	21.99	deg C	CAPA-14-49383
R-39	859	10/21/14	WG	Turbidity	0.8	NTU	CAPA-14-87189
R-39	859	07/14/14	WG	Turbidity	0.62	NTU	CAPA-14-81481
R-39	859	04/14/14	WG	Turbidity	2.1	NTU	CAPA-14-57738
R-39	859	01/24/14	WG	Turbidity	0.2	NTU	CAPA-14-49710
R-39	859	12/16/13	WG	Turbidity	0.5	NTU	CAPA-14-49383
R-40 S1	751.59	10/28/14	WG	Dissolved Oxygen	0.86	mg/L	CAPA-14-87190

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 S1	751.59	04/15/14	WG	Dissolved Oxygen	0.91	mg/L	CAPA-14-57739
R-40 S1	751.59	12/11/13	WG	Dissolved Oxygen	6.08	mg/L	CAPA-14-49384
R-40 S1	751.59	04/17/13	WG	Dissolved Oxygen	3.91	mg/L	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Dissolved Oxygen	2.11	mg/L	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Dissolved Oxygen	1.21	mg/L	CAPA-13-24285
R-40 S1	751.59	10/28/14	WG	Flow (in gpm)	0.55	gpm	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Flow (in gpm)	0.56	gpm	CAPA-14-57739
R-40 S1	751.59	10/31/11	WG	Flow (in gpm)	0.3	gpm	CAPA-12-1307
R-40 S1	751.59	10/31/11	WG	Flow (in gpm)	0.3	gpm	CAPA-12-1308
R-40 S1	751.59	10/31/11	WG	Flow (in gpm)	0.3	gpm	CAPA-12-1309
R-40 S1	751.59	07/11/11	WG	Flow (in gpm)	0.4	gpm	CAPA-11-22709
R-40 S1	751.59	05/05/11	WG	Flow (in gpm)	0.5	gpm	CAPA-11-9304
R-40 S1	751.59	10/28/14	WG	Oxidation-Reduction Potential	84.1	mV	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Oxidation-Reduction Potential	23.3	mV	CAPA-14-57739
R-40 S1	751.59	12/11/13	WG	Oxidation-Reduction Potential	121.5	mV	CAPA-14-49384
R-40 S1	751.59	04/17/13	WG	Oxidation-Reduction Potential	169.8	mV	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Oxidation-Reduction Potential	157.2	mV	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Oxidation-Reduction Potential	173.8	mV	CAPA-13-24285
R-40 S1	751.59	10/28/14	WG	pH	9.29	SU	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	pH	9.27	SU	CAPA-14-57739
R-40 S1	751.59	12/11/13	WG	pH	8.73	SU	CAPA-14-49384
R-40 S1	751.59	04/17/13	WG	pH	9.26	SU	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	pH	9.22	SU	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	pH	9.58	SU	CAPA-13-24285
R-40 S1	751.59	10/28/14	WG	Specific Conductance	150	µS/cm	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Specific Conductance	153	µS/cm	CAPA-14-57739
R-40 S1	751.59	12/11/13	WG	Specific Conductance	155	µS/cm	CAPA-14-49384
R-40 S1	751.59	04/17/13	WG	Specific Conductance	155	µS/cm	CAPA-13-29568

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 S1	751.59	10/12/12	WG	Specific Conductance	162	µS/cm	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Specific Conductance	150	µS/cm	CAPA-13-24285
R-40 S1	751.59	10/28/14	WG	Temperature	16.98	deg C	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Temperature	16.89	deg C	CAPA-14-57739
R-40 S1	751.59	12/11/13	WG	Temperature	12.85	deg C	CAPA-14-49384
R-40 S1	751.59	04/17/13	WG	Temperature	16.19	deg C	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Temperature	16	deg C	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Temperature	15.8	deg C	CAPA-13-24285
R-40 S1	751.59	10/28/14	WG	Turbidity	1	NTU	CAPA-14-87190
R-40 S1	751.59	04/15/14	WG	Turbidity	1	NTU	CAPA-14-57739
R-40 S1	751.59	12/11/13	WG	Turbidity	5.5	NTU	CAPA-14-49384
R-40 S1	751.59	04/17/13	WG	Turbidity	24.9	NTU	CAPA-13-29568
R-40 S1	751.59	10/12/12	WG	Turbidity	1.02	NTU	CAPA-12-23803
R-40 S1	751.59	10/12/12	WG	Turbidity	0.47	NTU	CAPA-13-24285
R-40 S2	849.27	10/17/14	WG	Dissolved Oxygen	6.79	mg/L	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Dissolved Oxygen	6.72	mg/L	CAPA-14-57740
R-40 S2	849.27	12/03/13	WG	Dissolved Oxygen	7.19	mg/L	CAPA-14-49385
R-40 S2	849.27	04/16/13	WG	Dissolved Oxygen	6.58	mg/L	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Dissolved Oxygen	6.85	mg/L	CAPA-12-23804
R-40 S2	849.27	10/17/14	WG	Flow (in gpm)	2	gpm	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Flow (in gpm)	2	gpm	CAPA-14-57740
R-40 S2	849.27	10/20/11	WG	Flow (in gpm)	2.2	gpm	CAPA-12-1150
R-40 S2	849.27	07/08/11	WG	Flow (in gpm)	2	gpm	CAPA-11-22899
R-40 S2	849.27	04/26/11	WG	Flow (in gpm)	2	gpm	CAPA-11-9344
R-40 S2	849.27	10/17/14	WG	Oxidation-Reduction Potential	-19.5	mV	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Oxidation-Reduction Potential	93.5	mV	CAPA-14-57740
R-40 S2	849.27	12/03/13	WG	Oxidation-Reduction Potential	112.4	mV	CAPA-14-49385
R-40 S2	849.27	04/16/13	WG	Oxidation-Reduction Potential	164	mV	CAPA-13-29569

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 S2	849.27	10/12/12	WG	Oxidation-Reduction Potential	183.7	mV	CAPA-12-23804
R-40 S2	849.27	10/17/14	WG	pH	7.99	SU	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	pH	8.13	SU	CAPA-14-57740
R-40 S2	849.27	12/03/13	WG	pH	7.57	SU	CAPA-14-49385
R-40 S2	849.27	04/16/13	WG	pH	8.01	SU	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	pH	7.85	SU	CAPA-12-23804
R-40 S2	849.27	10/17/14	WG	Specific Conductance	129	µS/cm	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Specific Conductance	130	µS/cm	CAPA-14-57740
R-40 S2	849.27	12/03/13	WG	Specific Conductance	129	µS/cm	CAPA-14-49385
R-40 S2	849.27	04/16/13	WG	Specific Conductance	129	µS/cm	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Specific Conductance	127	µS/cm	CAPA-12-23804
R-40 S2	849.27	10/17/14	WG	Temperature	20.71	deg C	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Temperature	20.56	deg C	CAPA-14-57740
R-40 S2	849.27	12/03/13	WG	Temperature	20.2	deg C	CAPA-14-49385
R-40 S2	849.27	04/16/13	WG	Temperature	20.26	deg C	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Temperature	19.46	deg C	CAPA-12-23804
R-40 S2	849.27	10/17/14	WG	Turbidity	0.65	NTU	CAPA-14-87191
R-40 S2	849.27	04/07/14	WG	Turbidity	0.4	NTU	CAPA-14-57740
R-40 S2	849.27	12/03/13	WG	Turbidity	0.8	NTU	CAPA-14-49385
R-40 S2	849.27	04/16/13	WG	Turbidity	0.2	NTU	CAPA-13-29569
R-40 S2	849.27	10/12/12	WG	Turbidity	0.86	NTU	CAPA-12-23804
R-40 Si	649.67	10/28/14	WG	Dissolved Oxygen	0.55	mg/L	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Dissolved Oxygen	1.13	mg/L	CAPA-14-57741
R-40 Si	649.67	12/11/13	WG	Dissolved Oxygen	0.38	mg/L	CAPA-14-49386
R-40 Si	649.67	04/24/13	WG	Dissolved Oxygen	0.58	mg/L	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Dissolved Oxygen	0.48	mg/L	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Dissolved Oxygen	6.44	mg/L	CAPA-12-23805
R-40 Si	649.67	10/28/14	WG	Flow (in gpm)	0.58	gpm	CAPA-14-87192

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 Si	649.67	04/15/14	WG	Flow (in gpm)	0.76	gpm	CAPA-14-57741
R-40 Si	649.67	12/11/13	WG	Flow (in gpm)	0.73	gpm	CAPA-14-49386
R-40 Si	649.67	11/01/11	WG	Flow (in gpm)	0.63	gpm	CAPA-12-1124
R-40 Si	649.67	11/01/11	WG	Flow (in gpm)	0.63	gpm	CAPA-12-1294
R-40 Si	649.67	11/01/11	WG	Flow (in gpm)	0.63	gpm	CAPA-12-1296
R-40 Si	649.67	11/01/11	WG	Flow (in gpm)	0.63	gpm	CAPA-12-1298
R-40 Si	649.67	11/01/11	WG	Flow (in gpm)	0.63	gpm	CAPA-12-1300
R-40 Si	649.67	11/01/11	WG	Flow (in gpm)	0.63	gpm	CAPA-12-1302
R-40 Si	649.67	11/01/11	WG	Flow (in gpm)	0.63	gpm	CAPA-12-1304
R-40 Si	649.67	07/12/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-23041
R-40 Si	649.67	07/12/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-23043
R-40 Si	649.67	07/12/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-23045
R-40 Si	649.67	07/12/11	WG	Flow (in gpm)	0.7	gpm	CAPA-11-23047
R-40 Si	649.67	10/28/14	WG	Oxidation-Reduction Potential	-106.6	mV	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Oxidation-Reduction Potential	-78.3	mV	CAPA-14-57741
R-40 Si	649.67	12/11/13	WG	Oxidation-Reduction Potential	-135.7	mV	CAPA-14-49386
R-40 Si	649.67	04/24/13	WG	Oxidation-Reduction Potential	-170.9	mV	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Oxidation-Reduction Potential	-161.6	mV	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Oxidation-Reduction Potential	124.9	mV	CAPA-12-23805
R-40 Si	649.67	10/28/14	WG	pH	7.57	SU	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	pH	7.47	SU	CAPA-14-57741
R-40 Si	649.67	12/11/13	WG	pH	7.46	SU	CAPA-14-49386
R-40 Si	649.67	04/24/13	WG	pH	7.5	SU	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	pH	7.51	SU	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	pH	7.5	SU	CAPA-12-23805
R-40 Si	649.67	10/28/14	WG	Specific Conductance	267	µS/cm	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Specific Conductance	247	µS/cm	CAPA-14-57741
R-40 Si	649.67	12/11/13	WG	Specific Conductance	252	µS/cm	CAPA-14-49386

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40 Si	649.67	04/24/13	WG	Specific Conductance	245	µS/cm	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Specific Conductance	234	µS/cm	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Specific Conductance	247	µS/cm	CAPA-12-23805
R-40 Si	649.67	10/28/14	WG	Temperature	16.9	deg C	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Temperature	14.71	deg C	CAPA-14-57741
R-40 Si	649.67	12/11/13	WG	Temperature	16.25	deg C	CAPA-14-49386
R-40 Si	649.67	04/24/13	WG	Temperature	15.45	deg C	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Temperature	15.96	deg C	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Temperature	16.04	deg C	CAPA-12-23805
R-40 Si	649.67	10/28/14	WG	Turbidity	0.41	NTU	CAPA-14-87192
R-40 Si	649.67	04/15/14	WG	Turbidity	0.8	NTU	CAPA-14-57741
R-40 Si	649.67	12/11/13	WG	Turbidity	0	NTU	CAPA-14-49386
R-40 Si	649.67	04/24/13	WG	Turbidity	0.3	NTU	CAPA-13-30295
R-40 Si	649.67	04/24/13	WG	Turbidity	0.3	NTU	CAPA-13-30300
R-40 Si	649.67	10/22/12	WG	Turbidity	1.11	NTU	CAPA-12-23805
R-41 S2	965.3	10/21/14	WG	Dissolved Oxygen	6.2	mg/L	CAPA-14-87193
R-41 S2	965.3	07/09/14	WG	Dissolved Oxygen	6.22	mg/L	CAPA-14-81482
R-41 S2	965.3	04/14/14	WG	Dissolved Oxygen	6.28	mg/L	CAPA-14-57742
R-41 S2	965.3	01/16/14	WG	Dissolved Oxygen	6.24	mg/L	CAPA-14-49711
R-41 S2	965.3	12/10/13	WG	Dissolved Oxygen	6.16	mg/L	CAPA-14-49387
R-41 S2	965.3	10/21/14	WG	Flow (in gpm)	3	gpm	CAPA-14-87193
R-41 S2	965.3	07/09/14	WG	Flow (in gpm)	3.1	gpm	CAPA-14-81482
R-41 S2	965.3	04/14/14	WG	Flow (in gpm)	2.75	gpm	CAPA-14-57742
R-41 S2	965.3	01/16/14	WG	Flow (in gpm)	2.8	gpm	CAPA-14-49711
R-41 S2	965.3	10/25/11	WG	Flow (in gpm)	3.03	gpm	CAPA-12-1182
R-41 S2	965.3	10/21/14	WG	Oxidation-Reduction Potential	138.4	mV	CAPA-14-87193
R-41 S2	965.3	07/09/14	WG	Oxidation-Reduction Potential	2	mV	CAPA-14-81482
R-41 S2	965.3	04/14/14	WG	Oxidation-Reduction Potential	131.9	mV	CAPA-14-57742

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-41 S2	965.3	01/16/14	WG	Oxidation-Reduction Potential	-90.3	mV	CAPA-14-49711
R-41 S2	965.3	12/10/13	WG	Oxidation-Reduction Potential	77.8	mV	CAPA-14-49387
R-41 S2	965.3	10/21/14	WG	pH	8.17	SU	CAPA-14-87193
R-41 S2	965.3	07/09/14	WG	pH	8.05	SU	CAPA-14-81482
R-41 S2	965.3	04/14/14	WG	pH	8.04	SU	CAPA-14-57742
R-41 S2	965.3	01/16/14	WG	pH	7.9	SU	CAPA-14-49711
R-41 S2	965.3	12/10/13	WG	pH	8.08	SU	CAPA-14-49387
R-41 S2	965.3	10/21/14	WG	Specific Conductance	163	µS/cm	CAPA-14-87193
R-41 S2	965.3	07/09/14	WG	Specific Conductance	164	µS/cm	CAPA-14-81482
R-41 S2	965.3	04/14/14	WG	Specific Conductance	163	µS/cm	CAPA-14-57742
R-41 S2	965.3	01/16/14	WG	Specific Conductance	162	µS/cm	CAPA-14-49711
R-41 S2	965.3	12/10/13	WG	Specific Conductance	163	µS/cm	CAPA-14-49387
R-41 S2	965.3	10/21/14	WG	Temperature	23.22	deg C	CAPA-14-87193
R-41 S2	965.3	07/09/14	WG	Temperature	23.4	deg C	CAPA-14-81482
R-41 S2	965.3	04/14/14	WG	Temperature	19.72	deg C	CAPA-14-57742
R-41 S2	965.3	01/16/14	WG	Temperature	20.06	deg C	CAPA-14-49711
R-41 S2	965.3	12/10/13	WG	Temperature	21.13	deg C	CAPA-14-49387
R-41 S2	965.3	10/21/14	WG	Turbidity	0.3	NTU	CAPA-14-87193
R-41 S2	965.3	07/09/14	WG	Turbidity	0	NTU	CAPA-14-81482
R-41 S2	965.3	04/14/14	WG	Turbidity	0.7	NTU	CAPA-14-57742
R-41 S2	965.3	01/16/14	WG	Turbidity	0.7	NTU	CAPA-14-49711
R-41 S2	965.3	12/10/13	WG	Turbidity	0.5	NTU	CAPA-14-49387
R-49 S1	845	10/27/14	WG	Dissolved Oxygen	4.44	mg/L	CAPA-14-87194
R-49 S1	845	04/18/14	WG	Dissolved Oxygen	4.45	mg/L	CAPA-14-57743
R-49 S1	845	12/09/13	WG	Dissolved Oxygen	4.6	mg/L	CAPA-14-49388
R-49 S1	845	04/15/13	WG	Dissolved Oxygen	4.27	mg/L	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Dissolved Oxygen	4.35	mg/L	CAPA-12-23807
R-49 S1	845	10/27/14	WG	Flow (in gpm)	1.5	gpm	CAPA-14-87194

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49 S1	845	04/18/14	WG	Flow (in gpm)	1.53	gpm	CAPA-14-57743
R-49 S1	845	10/26/11	WG	Flow (in gpm)	2.25	gpm	CAPA-12-1153
R-49 S1	845	07/08/11	WG	Flow (in gpm)	1.1	gpm	CAPA-11-22697
R-49 S1	845	05/02/11	WG	Flow (in gpm)	1	gpm	CAPA-11-9366
R-49 S1	845	10/27/14	WG	Oxidation-Reduction Potential	128.2	mV	CAPA-14-87194
R-49 S1	845	04/18/14	WG	Oxidation-Reduction Potential	70	mV	CAPA-14-57743
R-49 S1	845	12/09/13	WG	Oxidation-Reduction Potential	37.6	mV	CAPA-14-49388
R-49 S1	845	04/15/13	WG	Oxidation-Reduction Potential	137	mV	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Oxidation-Reduction Potential	41.2	mV	CAPA-12-23807
R-49 S1	845	10/27/14	WG	pH	7.75	SU	CAPA-14-87194
R-49 S1	845	04/18/14	WG	pH	7.97	SU	CAPA-14-57743
R-49 S1	845	12/09/13	WG	pH	7.98	SU	CAPA-14-49388
R-49 S1	845	04/15/13	WG	pH	7.71	SU	CAPA-13-29572
R-49 S1	845	10/15/12	WG	pH	7	SU	CAPA-12-23807
R-49 S1	845	10/27/14	WG	Specific Conductance	157	µS/cm	CAPA-14-87194
R-49 S1	845	04/18/14	WG	Specific Conductance	155	µS/cm	CAPA-14-57743
R-49 S1	845	12/09/13	WG	Specific Conductance	155	µS/cm	CAPA-14-49388
R-49 S1	845	04/15/13	WG	Specific Conductance	152	µS/cm	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Specific Conductance	152	µS/cm	CAPA-12-23807
R-49 S1	845	10/27/14	WG	Temperature	21.29	deg C	CAPA-14-87194
R-49 S1	845	04/18/14	WG	Temperature	22.65	deg C	CAPA-14-57743
R-49 S1	845	12/09/13	WG	Temperature	20.84	deg C	CAPA-14-49388
R-49 S1	845	04/15/13	WG	Temperature	22.29	deg C	CAPA-13-29572
R-49 S1	845	10/15/12	WG	Temperature	22.65	deg C	CAPA-12-23807
R-49 S1	845	10/27/14	WG	Turbidity	1.1	NTU	CAPA-14-87194
R-49 S1	845	04/18/14	WG	Turbidity	1.8	NTU	CAPA-14-57743
R-49 S1	845	12/09/13	WG	Turbidity	2.2	NTU	CAPA-14-49388
R-49 S1	845	04/15/13	WG	Turbidity	1	NTU	CAPA-13-29572

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49 S1	845	10/15/12	WG	Turbidity	1.94	NTU	CAPA-12-23807
R-49 S2	905.6	10/24/14	WG	Dissolved Oxygen	6.61	mg/L	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Dissolved Oxygen	6.75	mg/L	CAPA-14-57744
R-49 S2	905.6	12/13/13	WG	Dissolved Oxygen	6.85	mg/L	CAPA-14-49389
R-49 S2	905.6	04/19/13	WG	Dissolved Oxygen	6.65	mg/L	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Dissolved Oxygen	6.54	mg/L	CAPA-12-23808
R-49 S2	905.6	10/24/14	WG	Flow (in gpm)	2.38	gpm	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Flow (in gpm)	2.4	gpm	CAPA-14-57744
R-49 S2	905.6	12/13/13	WG	Flow (in gpm)	2.4	gpm	CAPA-14-49389
R-49 S2	905.6	10/27/11	WG	Flow (in gpm)	2.3	gpm	CAPA-12-1156
R-49 S2	905.6	07/25/11	WG	Flow (in gpm)	2.4	gpm	CAPA-11-22909
R-49 S2	905.6	10/24/14	WG	Oxidation-Reduction Potential	101.7	mV	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Oxidation-Reduction Potential	121	mV	CAPA-14-57744
R-49 S2	905.6	12/13/13	WG	Oxidation-Reduction Potential	154.4	mV	CAPA-14-49389
R-49 S2	905.6	04/19/13	WG	Oxidation-Reduction Potential	173.5	mV	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Oxidation-Reduction Potential	186.2	mV	CAPA-12-23808
R-49 S2	905.6	10/24/14	WG	pH	8.03	SU	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	pH	8.05	SU	CAPA-14-57744
R-49 S2	905.6	12/13/13	WG	pH	8.03	SU	CAPA-14-49389
R-49 S2	905.6	04/19/13	WG	pH	7.81	SU	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	pH	8.03	SU	CAPA-12-23808
R-49 S2	905.6	10/24/14	WG	Specific Conductance	143	µS/cm	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Specific Conductance	142	µS/cm	CAPA-14-57744
R-49 S2	905.6	12/13/13	WG	Specific Conductance	142	µS/cm	CAPA-14-49389
R-49 S2	905.6	04/19/13	WG	Specific Conductance	141	µS/cm	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Specific Conductance	141	µS/cm	CAPA-12-23808
R-49 S2	905.6	10/24/14	WG	Temperature	22.37	deg C	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Temperature	21.68	deg C	CAPA-14-57744

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49 S2	905.6	12/13/13	WG	Temperature	21.43	deg C	CAPA-14-49389
R-49 S2	905.6	04/19/13	WG	Temperature	21.59	deg C	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Temperature	21.59	deg C	CAPA-12-23808
R-49 S2	905.6	10/24/14	WG	Turbidity	0.5	NTU	CAPA-14-87195
R-49 S2	905.6	04/07/14	WG	Turbidity	0.2	NTU	CAPA-14-57744
R-49 S2	905.6	12/13/13	WG	Turbidity	0.61	NTU	CAPA-14-49389
R-49 S2	905.6	04/19/13	WG	Turbidity	0.1	NTU	CAPA-13-29573
R-49 S2	905.6	10/25/12	WG	Turbidity	0.55	NTU	CAPA-12-23808
R-51 S1	914.96	10/22/14	WG	Dissolved Oxygen	7.91	mg/L	CAPA-14-87196
R-51 S1	914.96	04/09/14	WG	Dissolved Oxygen	9.22	mg/L	CAPA-14-57745
R-51 S1	914.96	12/13/13	WG	Dissolved Oxygen	8.95	mg/L	CAPA-14-49390
R-51 S1	914.96	04/25/13	WG	Dissolved Oxygen	8.03	mg/L	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Dissolved Oxygen	8.15	mg/L	CAPA-12-23809
R-51 S1	914.96	10/22/14	WG	Flow (in gpm)	3.7	gpm	CAPA-14-87196
R-51 S1	914.96	04/09/14	WG	Flow (in gpm)	3.75	gpm	CAPA-14-57745
R-51 S1	914.96	10/21/11	WG	Flow (in gpm)	3.75	gpm	CAPA-12-1159
R-51 S1	914.96	07/28/11	WG	Flow (in gpm)	3.75	gpm	CAPA-11-22912
R-51 S1	914.96	05/09/11	WG	Flow (in gpm)	3.5	gpm	CAPA-11-9405
R-51 S1	914.96	10/22/14	WG	Oxidation-Reduction Potential	129.2	mV	CAPA-14-87196
R-51 S1	914.96	04/09/14	WG	Oxidation-Reduction Potential	78.5	mV	CAPA-14-57745
R-51 S1	914.96	12/13/13	WG	Oxidation-Reduction Potential	53.2	mV	CAPA-14-49390
R-51 S1	914.96	04/25/13	WG	Oxidation-Reduction Potential	232.5	mV	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Oxidation-Reduction Potential	39.4	mV	CAPA-12-23809
R-51 S1	914.96	10/22/14	WG	pH	8.03	SU	CAPA-14-87196
R-51 S1	914.96	04/09/14	WG	pH	7.97	SU	CAPA-14-57745
R-51 S1	914.96	12/13/13	WG	pH	7.98	SU	CAPA-14-49390
R-51 S1	914.96	04/25/13	WG	pH	8.05	SU	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	pH	8.07	SU	CAPA-12-23809

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51 S1	914.96	10/22/14	WG	Specific Conductance	121	µS/cm	CAPA-14-87196
R-51 S1	914.96	04/09/14	WG	Specific Conductance	121	µS/cm	CAPA-14-57745
R-51 S1	914.96	12/13/13	WG	Specific Conductance	121	µS/cm	CAPA-14-49390
R-51 S1	914.96	04/25/13	WG	Specific Conductance	122	µS/cm	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Specific Conductance	111	µS/cm	CAPA-12-23809
R-51 S1	914.96	10/22/14	WG	Temperature	21.01	deg C	CAPA-14-87196
R-51 S1	914.96	04/09/14	WG	Temperature	20.88	deg C	CAPA-14-57745
R-51 S1	914.96	12/13/13	WG	Temperature	20.17	deg C	CAPA-14-49390
R-51 S1	914.96	04/25/13	WG	Temperature	20.24	deg C	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Temperature	20.47	deg C	CAPA-12-23809
R-51 S1	914.96	10/22/14	WG	Turbidity	2	NTU	CAPA-14-87196
R-51 S1	914.96	04/09/14	WG	Turbidity	0.61	NTU	CAPA-14-57745
R-51 S1	914.96	12/13/13	WG	Turbidity	1	NTU	CAPA-14-49390
R-51 S1	914.96	04/25/13	WG	Turbidity	7.8	NTU	CAPA-13-29574
R-51 S1	914.96	10/10/12	WG	Turbidity	0.68	NTU	CAPA-12-23809
R-51 S2	1030.96	10/22/14	WG	Dissolved Oxygen	6.28	mg/L	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Dissolved Oxygen	6.37	mg/L	CAPA-14-57746
R-51 S2	1030.96	12/13/13	WG	Dissolved Oxygen	6.32	mg/L	CAPA-14-49391
R-51 S2	1030.96	04/25/13	WG	Dissolved Oxygen	6.33	mg/L	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Dissolved Oxygen	6.44	mg/L	CAPA-12-23810
R-51 S2	1030.96	10/22/14	WG	Flow (in gpm)	3.8	gpm	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Flow (in gpm)	3.75	gpm	CAPA-14-57746
R-51 S2	1030.96	10/21/11	WG	Flow (in gpm)	3.75	gpm	CAPA-12-1164
R-51 S2	1030.96	07/28/11	WG	Flow (in gpm)	3.5	gpm	CAPA-11-14786
R-51 S2	1030.96	07/28/11	WG	Flow (in gpm)	3.5	gpm	CAPA-11-14788
R-51 S2	1030.96	07/28/11	WG	Flow (in gpm)	3.5	gpm	CAPA-11-14700
R-51 S2	1030.96	07/28/11	WG	Flow (in gpm)	3.5	gpm	CAPA-11-22928
R-51 S2	1030.96	05/09/11	WG	Flow (in gpm)	3.75	gpm	CAPA-11-9446

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51 S2	1030.96	10/22/14	WG	Oxidation-Reduction Potential	127.4	mV	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Oxidation-Reduction Potential	62.6	mV	CAPA-14-57746
R-51 S2	1030.96	12/13/13	WG	Oxidation-Reduction Potential	30	mV	CAPA-14-49391
R-51 S2	1030.96	04/25/13	WG	Oxidation-Reduction Potential	188.3	mV	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Oxidation-Reduction Potential	12.5	mV	CAPA-12-23810
R-51 S2	1030.96	10/22/14	WG	pH	8.2	SU	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	pH	8.09	SU	CAPA-14-57746
R-51 S2	1030.96	12/13/13	WG	pH	8.14	SU	CAPA-14-49391
R-51 S2	1030.96	04/25/13	WG	pH	8.11	SU	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	pH	8.12	SU	CAPA-12-23810
R-51 S2	1030.96	10/22/14	WG	Specific Conductance	120	µS/cm	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Specific Conductance	121	µS/cm	CAPA-14-57746
R-51 S2	1030.96	12/13/13	WG	Specific Conductance	124	µS/cm	CAPA-14-49391
R-51 S2	1030.96	04/25/13	WG	Specific Conductance	124	µS/cm	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Specific Conductance	118	µS/cm	CAPA-12-23810
R-51 S2	1030.96	10/22/14	WG	Temperature	21.85	deg C	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Temperature	21.91	deg C	CAPA-14-57746
R-51 S2	1030.96	12/13/13	WG	Temperature	21.37	deg C	CAPA-14-49391
R-51 S2	1030.96	04/25/13	WG	Temperature	21.3	deg C	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Temperature	21.81	deg C	CAPA-12-23810
R-51 S2	1030.96	10/22/14	WG	Turbidity	0.4	NTU	CAPA-14-87197
R-51 S2	1030.96	04/09/14	WG	Turbidity	0.35	NTU	CAPA-14-57746
R-51 S2	1030.96	12/13/13	WG	Turbidity	0.4	NTU	CAPA-14-49391
R-51 S2	1030.96	04/25/13	WG	Turbidity	0.9	NTU	CAPA-13-29575
R-51 S2	1030.96	10/10/12	WG	Turbidity	0.56	NTU	CAPA-12-23810
R-52 S1	1035.2	10/16/14	WG	Dissolved Oxygen	8.08	mg/L	CAPA-14-87198
R-52 S1	1035.2	04/10/14	WG	Dissolved Oxygen	8.1	mg/L	CAPA-14-57747
R-52 S1	1035.2	12/11/13	WG	Dissolved Oxygen	8.49	mg/L	CAPA-14-49392

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S1	1035.2	04/11/13	WG	Dissolved Oxygen	8.68	mg/L	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Dissolved Oxygen	8.46	mg/L	CAPA-12-23811
R-52 S1	1035.2	10/16/14	WG	Flow (in gpm)	3.3	gpm	CAPA-14-87198
R-52 S1	1035.2	04/10/14	WG	Flow (in gpm)	3.37	gpm	CAPA-14-57747
R-52 S1	1035.2	11/01/11	WG	Flow (in gpm)	3.4	gpm	CAPA-12-1187
R-52 S1	1035.2	07/18/11	WG	Flow (in gpm)	3.3	gpm	CAPA-11-22933
R-52 S1	1035.2	05/04/11	WG	Flow (in gpm)	3.4	gpm	CAPA-11-9464
R-52 S1	1035.2	10/16/14	WG	Oxidation-Reduction Potential	161.9	mV	CAPA-14-87198
R-52 S1	1035.2	04/10/14	WG	Oxidation-Reduction Potential	40.3	mV	CAPA-14-57747
R-52 S1	1035.2	12/11/13	WG	Oxidation-Reduction Potential	161.6	mV	CAPA-14-49392
R-52 S1	1035.2	04/11/13	WG	Oxidation-Reduction Potential	134.2	mV	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Oxidation-Reduction Potential	42.8	mV	CAPA-12-23811
R-52 S1	1035.2	10/16/14	WG	pH	8.06	SU	CAPA-14-87198
R-52 S1	1035.2	04/10/14	WG	pH	8.05	SU	CAPA-14-57747
R-52 S1	1035.2	12/11/13	WG	pH	7.8	SU	CAPA-14-49392
R-52 S1	1035.2	04/11/13	WG	pH	8.14	SU	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	pH	8.03	SU	CAPA-12-23811
R-52 S1	1035.2	10/16/14	WG	Specific Conductance	139	µS/cm	CAPA-14-87198
R-52 S1	1035.2	04/10/14	WG	Specific Conductance	143	µS/cm	CAPA-14-57747
R-52 S1	1035.2	12/11/13	WG	Specific Conductance	146	µS/cm	CAPA-14-49392
R-52 S1	1035.2	04/11/13	WG	Specific Conductance	144	µS/cm	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Specific Conductance	132	µS/cm	CAPA-12-23811
R-52 S1	1035.2	10/16/14	WG	Temperature	21.73	deg C	CAPA-14-87198
R-52 S1	1035.2	04/10/14	WG	Temperature	21.42	deg C	CAPA-14-57747
R-52 S1	1035.2	12/11/13	WG	Temperature	20.42	deg C	CAPA-14-49392
R-52 S1	1035.2	04/11/13	WG	Temperature	21.39	deg C	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Temperature	22.05	deg C	CAPA-12-23811
R-52 S1	1035.2	10/16/14	WG	Turbidity	0.3	NTU	CAPA-14-87198

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S1	1035.2	04/10/14	WG	Turbidity	0.17	NTU	CAPA-14-57747
R-52 S1	1035.2	12/11/13	WG	Turbidity	1.6	NTU	CAPA-14-49392
R-52 S1	1035.2	04/11/13	WG	Turbidity	0.8	NTU	CAPA-13-29576
R-52 S1	1035.2	10/16/12	WG	Turbidity	0.8	NTU	CAPA-12-23811
R-52 S2	1107	10/16/14	WG	Dissolved Oxygen	7.16	mg/L	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Dissolved Oxygen	7.12	mg/L	CAPA-14-57748
R-52 S2	1107	12/11/13	WG	Dissolved Oxygen	7.64	mg/L	CAPA-14-49393
R-52 S2	1107	04/11/13	WG	Dissolved Oxygen	7.34	mg/L	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Dissolved Oxygen	7.22	mg/L	CAPA-12-23812
R-52 S2	1107	10/16/14	WG	Flow (in gpm)	3.2	gpm	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Flow (in gpm)	3.33	gpm	CAPA-14-57748
R-52 S2	1107	11/01/11	WG	Flow (in gpm)	3.3	gpm	CAPA-12-1189
R-52 S2	1107	11/01/11	WG	Flow (in gpm)	3.3	gpm	CAPA-12-1313
R-52 S2	1107	11/01/11	WG	Flow (in gpm)	3.3	gpm	CAPA-12-1315
R-52 S2	1107	07/18/11	WG	Flow (in gpm)	3.3	gpm	CAPA-11-14716
R-52 S2	1107	07/18/11	WG	Flow (in gpm)	3.3	gpm	CAPA-11-22936
R-52 S2	1107	07/18/11	WG	Flow (in gpm)	3.3	gpm	CAPA-11-14784
R-52 S2	1107	07/18/11	WG	Flow (in gpm)	3.3	gpm	CAPA-11-14712
R-52 S2	1107	07/18/11	WG	Flow (in gpm)	3.3	gpm	CAPA-11-14714
R-52 S2	1107	05/04/11	WG	Flow (in gpm)	3.3	gpm	CAPA-11-9475
R-52 S2	1107	10/16/14	WG	Oxidation-Reduction Potential	177.3	mV	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Oxidation-Reduction Potential	51.9	mV	CAPA-14-57748
R-52 S2	1107	12/11/13	WG	Oxidation-Reduction Potential	167.8	mV	CAPA-14-49393
R-52 S2	1107	04/11/13	WG	Oxidation-Reduction Potential	164.6	mV	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Oxidation-Reduction Potential	12	mV	CAPA-12-23812
R-52 S2	1107	10/16/14	WG	pH	7.91	SU	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	pH	7.67	SU	CAPA-14-57748
R-52 S2	1107	12/11/13	WG	pH	7.59	SU	CAPA-14-49393

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52 S2	1107	04/11/13	WG	pH	7.82	SU	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	pH	7.82	SU	CAPA-12-23812
R-52 S2	1107	10/16/14	WG	Specific Conductance	120	µS/cm	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Specific Conductance	126	µS/cm	CAPA-14-57748
R-52 S2	1107	12/11/13	WG	Specific Conductance	127	µS/cm	CAPA-14-49393
R-52 S2	1107	04/11/13	WG	Specific Conductance	126	µS/cm	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Specific Conductance	117	µS/cm	CAPA-12-23812
R-52 S2	1107	10/16/14	WG	Temperature	22.05	deg C	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Temperature	22.36	deg C	CAPA-14-57748
R-52 S2	1107	12/11/13	WG	Temperature	21.13	deg C	CAPA-14-49393
R-52 S2	1107	04/11/13	WG	Temperature	21.14	deg C	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Temperature	21.27	deg C	CAPA-12-23812
R-52 S2	1107	10/16/14	WG	Turbidity	0.3	NTU	CAPA-14-87199
R-52 S2	1107	04/10/14	WG	Turbidity	0.2	NTU	CAPA-14-57748
R-52 S2	1107	12/11/13	WG	Turbidity	0.4	NTU	CAPA-14-49393
R-52 S2	1107	04/11/13	WG	Turbidity	0.3	NTU	CAPA-13-29577
R-52 S2	1107	10/16/12	WG	Turbidity	0.24	NTU	CAPA-12-23812
R-53 S1	849.2	10/23/14	WG	Dissolved Oxygen	6.12	mg/L	CAPA-14-87200
R-53 S1	849.2	04/02/14	WG	Dissolved Oxygen	6.22	mg/L	CAPA-14-57749
R-53 S1	849.2	12/12/13	WG	Dissolved Oxygen	5.99	mg/L	CAPA-14-49394
R-53 S1	849.2	04/08/13	WG	Dissolved Oxygen	6.09	mg/L	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Dissolved Oxygen	6.09	mg/L	CAPA-12-23813
R-53 S1	849.2	10/23/14	WG	Flow (in gpm)	3.75	gpm	CAPA-14-87200
R-53 S1	849.2	04/02/14	WG	Flow (in gpm)	3.9	gpm	CAPA-14-57749
R-53 S1	849.2	10/25/11	WG	Flow (in gpm)	3.5	gpm	CAPA-12-1192
R-53 S1	849.2	07/14/11	WG	Flow (in gpm)	3.8	gpm	CAPA-11-22939
R-53 S1	849.2	05/06/11	WG	Flow (in gpm)	4	gpm	CAPA-11-9484
R-53 S1	849.2	10/23/14	WG	Oxidation-Reduction Potential	70.5	mV	CAPA-14-87200

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53 S1	849.2	04/02/14	WG	Oxidation-Reduction Potential	83.3	mV	CAPA-14-57749
R-53 S1	849.2	12/12/13	WG	Oxidation-Reduction Potential	68.5	mV	CAPA-14-49394
R-53 S1	849.2	04/08/13	WG	Oxidation-Reduction Potential	104.8	mV	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Oxidation-Reduction Potential	67.3	mV	CAPA-12-23813
R-53 S1	849.2	10/23/14	WG	pH	8.07	SU	CAPA-14-87200
R-53 S1	849.2	04/02/14	WG	pH	8	SU	CAPA-14-57749
R-53 S1	849.2	12/12/13	WG	pH	8.09	SU	CAPA-14-49394
R-53 S1	849.2	04/08/13	WG	pH	8	SU	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	pH	8.09	SU	CAPA-12-23813
R-53 S1	849.2	10/23/14	WG	Specific Conductance	127	µS/cm	CAPA-14-87200
R-53 S1	849.2	04/02/14	WG	Specific Conductance	129	µS/cm	CAPA-14-57749
R-53 S1	849.2	12/12/13	WG	Specific Conductance	127	µS/cm	CAPA-14-49394
R-53 S1	849.2	04/08/13	WG	Specific Conductance	127	µS/cm	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Specific Conductance	129	µS/cm	CAPA-12-23813
R-53 S1	849.2	10/23/14	WG	Temperature	21.5	deg C	CAPA-14-87200
R-53 S1	849.2	04/02/14	WG	Temperature	21.06	deg C	CAPA-14-57749
R-53 S1	849.2	12/12/13	WG	Temperature	20.52	deg C	CAPA-14-49394
R-53 S1	849.2	04/08/13	WG	Temperature	21.03	deg C	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Temperature	21.44	deg C	CAPA-12-23813
R-53 S1	849.2	10/23/14	WG	Turbidity	0.35	NTU	CAPA-14-87200
R-53 S1	849.2	04/02/14	WG	Turbidity	0.5	NTU	CAPA-14-57749
R-53 S1	849.2	12/12/13	WG	Turbidity	0.65	NTU	CAPA-14-49394
R-53 S1	849.2	04/08/13	WG	Turbidity	0.2	NTU	CAPA-13-29578
R-53 S1	849.2	10/11/12	WG	Turbidity	0.37	NTU	CAPA-12-23813
R-53 S2	959.7	10/23/14	WG	Dissolved Oxygen	6.51	mg/L	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Dissolved Oxygen	6.41	mg/L	CAPA-14-57750
R-53 S2	959.7	12/12/13	WG	Dissolved Oxygen	6.27	mg/L	CAPA-14-49395
R-53 S2	959.7	04/08/13	WG	Dissolved Oxygen	6.38	mg/L	CAPA-13-29579

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53 S2	959.7	10/11/12	WG	Dissolved Oxygen	6.01	mg/L	CAPA-12-23814
R-53 S2	959.7	10/23/14	WG	Flow (in gpm)	3.79	gpm	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Flow (in gpm)	3.8	gpm	CAPA-14-57750
R-53 S2	959.7	10/25/11	WG	Flow (in gpm)	4	gpm	CAPA-12-1196
R-53 S2	959.7	07/14/11	WG	Flow (in gpm)	3.7	gpm	CAPA-11-22941
R-53 S2	959.7	05/06/11	WG	Flow (in gpm)	3.75	gpm	CAPA-11-9491
R-53 S2	959.7	10/23/14	WG	Oxidation-Reduction Potential	114.5	mV	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Oxidation-Reduction Potential	139	mV	CAPA-14-57750
R-53 S2	959.7	12/12/13	WG	Oxidation-Reduction Potential	78	mV	CAPA-14-49395
R-53 S2	959.7	04/08/13	WG	Oxidation-Reduction Potential	106.6	mV	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Oxidation-Reduction Potential	104.5	mV	CAPA-12-23814
R-53 S2	959.7	10/23/14	WG	pH	8.17	SU	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	pH	8.12	SU	CAPA-14-57750
R-53 S2	959.7	12/12/13	WG	pH	8.15	SU	CAPA-14-49395
R-53 S2	959.7	04/08/13	WG	pH	8.03	SU	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	pH	8.2	SU	CAPA-12-23814
R-53 S2	959.7	10/23/14	WG	Specific Conductance	124	µS/cm	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Specific Conductance	125	µS/cm	CAPA-14-57750
R-53 S2	959.7	12/12/13	WG	Specific Conductance	124	µS/cm	CAPA-14-49395
R-53 S2	959.7	04/08/13	WG	Specific Conductance	124	µS/cm	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Specific Conductance	126	µS/cm	CAPA-12-23814
R-53 S2	959.7	10/23/14	WG	Temperature	21.84	deg C	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Temperature	21.3	deg C	CAPA-14-57750
R-53 S2	959.7	12/12/13	WG	Temperature	21.01	deg C	CAPA-14-49395
R-53 S2	959.7	04/08/13	WG	Temperature	21.58	deg C	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Temperature	21.31	deg C	CAPA-12-23814
R-53 S2	959.7	10/23/14	WG	Turbidity	0.23	NTU	CAPA-14-87201
R-53 S2	959.7	04/02/14	WG	Turbidity	0.4	NTU	CAPA-14-57750

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53 S2	959.7	12/12/13	WG	Turbidity	0.4	NTU	CAPA-14-49395
R-53 S2	959.7	04/08/13	WG	Turbidity	0	NTU	CAPA-13-29579
R-53 S2	959.7	10/11/12	WG	Turbidity	0.39	NTU	CAPA-12-23814
R-54 S1	830	10/22/14	WG	Dissolved Oxygen	1.09	mg/L	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Dissolved Oxygen	1.02	mg/L	CAPA-14-57751
R-54 S1	830	12/16/13	WG	Dissolved Oxygen	0.65	mg/L	CAPA-14-49396
R-54 S1	830	04/16/13	WG	Dissolved Oxygen	0.55	mg/L	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Dissolved Oxygen	1.05	mg/L	CAPA-12-23815
R-54 S1	830	10/22/14	WG	Flow (in gpm)	3	gpm	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Flow (in gpm)	3	gpm	CAPA-14-57751
R-54 S1	830	12/16/13	WG	Flow (in gpm)	3.16	gpm	CAPA-14-49396
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1325
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1327
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1321
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1323
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1168
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1319
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1333
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1335
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1329
R-54 S1	830	11/02/11	WG	Flow (in gpm)	3	gpm	CAPA-12-1331
R-54 S1	830	07/12/11	WG	Flow (in gpm)	3	gpm	CAPA-11-14720
R-54 S1	830	07/12/11	WG	Flow (in gpm)	3	gpm	CAPA-11-14723
R-54 S1	830	07/12/11	WG	Flow (in gpm)	3	gpm	CAPA-11-14718
R-54 S1	830	07/12/11	WG	Flow (in gpm)	3	gpm	CAPA-11-22972
R-54 S1	830	10/22/14	WG	Oxidation-Reduction Potential	-43.3	mV	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Oxidation-Reduction Potential	-65	mV	CAPA-14-57751
R-54 S1	830	12/16/13	WG	Oxidation-Reduction Potential	-6.71	mV	CAPA-14-49396

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S1	830	04/16/13	WG	Oxidation-Reduction Potential	-71.6	mV	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Oxidation-Reduction Potential	53.5	mV	CAPA-12-23815
R-54 S1	830	10/22/14	WG	pH	6.48	SU	CAPA-14-87202
R-54 S1	830	04/15/14	WG	pH	6.77	SU	CAPA-14-57751
R-54 S1	830	12/16/13	WG	pH	6.74	SU	CAPA-14-49396
R-54 S1	830	04/16/13	WG	pH	6.58	SU	CAPA-13-29580
R-54 S1	830	10/24/12	WG	pH	6.79	SU	CAPA-12-23815
R-54 S1	830	10/22/14	WG	Specific Conductance	156	µS/cm	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Specific Conductance	162	µS/cm	CAPA-14-57751
R-54 S1	830	12/16/13	WG	Specific Conductance	174	µS/cm	CAPA-14-49396
R-54 S1	830	04/16/13	WG	Specific Conductance	178	µS/cm	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Specific Conductance	184	µS/cm	CAPA-12-23815
R-54 S1	830	10/22/14	WG	Temperature	20.07	deg C	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Temperature	21.16	deg C	CAPA-14-57751
R-54 S1	830	12/16/13	WG	Temperature	20.98	deg C	CAPA-14-49396
R-54 S1	830	04/16/13	WG	Temperature	21.5	deg C	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Temperature	21.16	deg C	CAPA-12-23815
R-54 S1	830	10/22/14	WG	Turbidity	0.74	NTU	CAPA-14-87202
R-54 S1	830	04/15/14	WG	Turbidity	0.8	NTU	CAPA-14-57751
R-54 S1	830	12/16/13	WG	Turbidity	0.96	NTU	CAPA-14-49396
R-54 S1	830	04/16/13	WG	Turbidity	0.58	NTU	CAPA-13-29580
R-54 S1	830	10/24/12	WG	Turbidity	0.61	NTU	CAPA-12-23815
R-54 S2	915	10/22/14	WG	Dissolved Oxygen	6.33	mg/L	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Dissolved Oxygen	6.14	mg/L	CAPA-14-57752
R-54 S2	915	12/16/13	WG	Dissolved Oxygen	6.43	mg/L	CAPA-14-49397
R-54 S2	915	04/16/13	WG	Dissolved Oxygen	6.41	mg/L	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Dissolved Oxygen	6.3	mg/L	CAPA-12-23816
R-54 S2	915	10/22/14	WG	Flow (in gpm)	3	gpm	CAPA-14-87203

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S2	915	04/15/14	WG	Flow (in gpm)	3.06	gpm	CAPA-14-57752
R-54 S2	915	10/31/11	WG	Flow (in gpm)	2.9	gpm	CAPA-12-1172
R-54 S2	915	07/12/11	WG	Flow (in gpm)	3	gpm	CAPA-11-22976
R-54 S2	915	05/05/11	WG	Flow (in gpm)	3	gpm	CAPA-11-9500
R-54 S2	915	10/22/14	WG	Oxidation-Reduction Potential	78.4	mV	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Oxidation-Reduction Potential	193.4	mV	CAPA-14-57752
R-54 S2	915	12/16/13	WG	Oxidation-Reduction Potential	35.6	mV	CAPA-14-49397
R-54 S2	915	04/16/13	WG	Oxidation-Reduction Potential	66.9	mV	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Oxidation-Reduction Potential	98.5	mV	CAPA-12-23816
R-54 S2	915	10/22/14	WG	pH	7.91	SU	CAPA-14-87203
R-54 S2	915	04/15/14	WG	pH	8.23	SU	CAPA-14-57752
R-54 S2	915	12/16/13	WG	pH	8.29	SU	CAPA-14-49397
R-54 S2	915	04/16/13	WG	pH	8.22	SU	CAPA-13-29581
R-54 S2	915	10/24/12	WG	pH	8.37	SU	CAPA-12-23816
R-54 S2	915	10/22/14	WG	Specific Conductance	128	µS/cm	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Specific Conductance	133	µS/cm	CAPA-14-57752
R-54 S2	915	12/16/13	WG	Specific Conductance	127	µS/cm	CAPA-14-49397
R-54 S2	915	04/16/13	WG	Specific Conductance	126	µS/cm	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Specific Conductance	131	µS/cm	CAPA-12-23816
R-54 S2	915	10/22/14	WG	Temperature	21.47	deg C	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Temperature	20.93	deg C	CAPA-14-57752
R-54 S2	915	12/16/13	WG	Temperature	21.43	deg C	CAPA-14-49397
R-54 S2	915	04/16/13	WG	Temperature	21.47	deg C	CAPA-13-29581
R-54 S2	915	10/24/12	WG	Temperature	21.03	deg C	CAPA-12-23816
R-54 S2	915	10/22/14	WG	Turbidity	0.41	NTU	CAPA-14-87203
R-54 S2	915	04/15/14	WG	Turbidity	0.2	NTU	CAPA-14-57752
R-54 S2	915	12/16/13	WG	Turbidity	0.52	NTU	CAPA-14-49397
R-54 S2	915	04/16/13	WG	Turbidity	0.61	NTU	CAPA-13-29581

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54 S2	915	10/24/12	WG	Turbidity	0.55	NTU	CAPA-12-23816
R-55 S1	860	10/15/14	WG	Dissolved Oxygen	6.26	mg/L	CAMO-14-87138
R-55 S1	860	07/11/14	WG	Dissolved Oxygen	6.19	mg/L	CAMO-14-81469
R-55 S1	860	04/07/14	WG	Dissolved Oxygen	6.33	mg/L	CAMO-14-57544
R-55 S1	860	01/08/14	WG	Dissolved Oxygen	6.24	mg/L	CAMO-14-49725
R-55 S1	860	12/02/13	WG	Dissolved Oxygen	6.28	mg/L	CAMO-14-49331
R-55 S1	860	10/15/14	WG	Flow (in gpm)	2.78	gpm	CAMO-14-87138
R-55 S1	860	07/11/14	WG	Flow (in gpm)	2.97	gpm	CAMO-14-81469
R-55 S1	860	04/07/14	WG	Flow (in gpm)	2.8	gpm	CAMO-14-57544
R-55 S1	860	01/08/14	WG	Flow (in gpm)	2.77	gpm	CAMO-14-49725
R-55 S1	860	10/28/11	WG	Flow (in gpm)	2.8	gpm	CAPA-12-1201
R-55 S1	860	10/15/14	WG	Oxidation-Reduction Potential	155.9	mV	CAMO-14-87138
R-55 S1	860	07/11/14	WG	Oxidation-Reduction Potential	34.5	mV	CAMO-14-81469
R-55 S1	860	04/07/14	WG	Oxidation-Reduction Potential	58.6	mV	CAMO-14-57544
R-55 S1	860	01/08/14	WG	Oxidation-Reduction Potential	144.5	mV	CAMO-14-49725
R-55 S1	860	12/02/13	WG	Oxidation-Reduction Potential	54.8	mV	CAMO-14-49331
R-55 S1	860	10/15/14	WG	pH	8.26	SU	CAMO-14-87138
R-55 S1	860	07/11/14	WG	pH	8.12	SU	CAMO-14-81469
R-55 S1	860	04/07/14	WG	pH	8.18	SU	CAMO-14-57544
R-55 S1	860	01/08/14	WG	pH	8.23	SU	CAMO-14-49725
R-55 S1	860	12/02/13	WG	pH	8.19	SU	CAMO-14-49331
R-55 S1	860	10/15/14	WG	Specific Conductance	175	µS/cm	CAMO-14-87138
R-55 S1	860	07/11/14	WG	Specific Conductance	178	µS/cm	CAMO-14-81469
R-55 S1	860	04/07/14	WG	Specific Conductance	176	µS/cm	CAMO-14-57544
R-55 S1	860	01/08/14	WG	Specific Conductance	176	µS/cm	CAMO-14-49725
R-55 S1	860	12/02/13	WG	Specific Conductance	175	µS/cm	CAMO-14-49331
R-55 S1	860	10/15/14	WG	Temperature	22.48	deg C	CAMO-14-87138
R-55 S1	860	07/11/14	WG	Temperature	22.71	deg C	CAMO-14-81469

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S1	860	04/07/14	WG	Temperature	21.7	deg C	CAMO-14-57544
R-55 S1	860	01/08/14	WG	Temperature	21.15	deg C	CAMO-14-49725
R-55 S1	860	12/02/13	WG	Temperature	21.7	deg C	CAMO-14-49331
R-55 S1	860	10/15/14	WG	Turbidity	0.1	NTU	CAMO-14-87138
R-55 S1	860	07/11/14	WG	Turbidity	0.31	NTU	CAMO-14-81469
R-55 S1	860	04/07/14	WG	Turbidity	0.19	NTU	CAMO-14-57544
R-55 S1	860	01/08/14	WG	Turbidity	0.25	NTU	CAMO-14-49725
R-55 S1	860	12/02/13	WG	Turbidity	0.26	NTU	CAMO-14-49331
R-55 S2	994.4	10/15/14	WG	Dissolved Oxygen	5.64	mg/L	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Dissolved Oxygen	5.72	mg/L	CAMO-14-57545
R-55 S2	994.4	12/02/13	WG	Dissolved Oxygen	5.63	mg/L	CAMO-14-49332
R-55 S2	994.4	04/18/13	WG	Dissolved Oxygen	5.42	mg/L	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Dissolved Oxygen	5.21	mg/L	CAMO-12-23863
R-55 S2	994.4	10/15/14	WG	Flow (in gpm)	2.65	gpm	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Flow (in gpm)	2.67	gpm	CAMO-14-57545
R-55 S2	994.4	10/31/11	WG	Flow (in gpm)	2.6	gpm	CAPA-12-1204
R-55 S2	994.4	07/14/11	WG	Flow (in gpm)	2.5	gpm	CAPA-11-14737
R-55 S2	994.4	07/14/11	WG	Flow (in gpm)	2.5	gpm	CAPA-11-14739
R-55 S2	994.4	07/14/11	WG	Flow (in gpm)	2.5	gpm	CAPA-11-23024
R-55 S2	994.4	04/28/11	WG	Flow (in gpm)	2.5	gpm	CAPA-11-9508
R-55 S2	994.4	10/15/14	WG	Oxidation-Reduction Potential	199.7	mV	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Oxidation-Reduction Potential	55.2	mV	CAMO-14-57545
R-55 S2	994.4	12/02/13	WG	Oxidation-Reduction Potential	46.9	mV	CAMO-14-49332
R-55 S2	994.4	04/18/13	WG	Oxidation-Reduction Potential	55.8	mV	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Oxidation-Reduction Potential	83.3	mV	CAMO-12-23863
R-55 S2	994.4	10/15/14	WG	pH	8.47	SU	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	pH	8.39	SU	CAMO-14-57545
R-55 S2	994.4	12/02/13	WG	pH	8.42	SU	CAMO-14-49332

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55 S2	994.4	04/18/13	WG	pH	8.49	SU	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	pH	8.48	SU	CAMO-12-23863
R-55 S2	994.4	10/15/14	WG	Specific Conductance	177	µS/cm	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Specific Conductance	178	µS/cm	CAMO-14-57545
R-55 S2	994.4	12/02/13	WG	Specific Conductance	178	µS/cm	CAMO-14-49332
R-55 S2	994.4	04/18/13	WG	Specific Conductance	175	µS/cm	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Specific Conductance	175	µS/cm	CAMO-12-23863
R-55 S2	994.4	10/15/14	WG	Temperature	22.74	deg C	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Temperature	22.34	deg C	CAMO-14-57545
R-55 S2	994.4	12/02/13	WG	Temperature	21.59	deg C	CAMO-14-49332
R-55 S2	994.4	04/18/13	WG	Temperature	21.12	deg C	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Temperature	22.52	deg C	CAMO-12-23863
R-55 S2	994.4	10/15/14	WG	Turbidity	0.2	NTU	CAMO-14-87139
R-55 S2	994.4	04/07/14	WG	Turbidity	0.28	NTU	CAMO-14-57545
R-55 S2	994.4	12/02/13	WG	Turbidity	0.33	NTU	CAMO-14-49332
R-55 S2	994.4	04/18/13	WG	Turbidity	0	NTU	CAMO-13-29630
R-55 S2	994.4	10/24/12	WG	Turbidity	0.35	NTU	CAMO-12-23863
R-55i	510	10/17/14	WG	Dissolved Oxygen	3.46	mg/L	CAMO-14-87140
R-55i	510	04/16/14	WG	Dissolved Oxygen	3.46	mg/L	CAMO-14-57546
R-55i	510	12/12/13	WG	Dissolved Oxygen	3.15	mg/L	CAMO-14-49333
R-55i	510	04/18/13	WG	Dissolved Oxygen	2.85	mg/L	CAMO-13-29631
R-55i	510	10/25/12	WG	Dissolved Oxygen	2.59	mg/L	CAMO-12-23864
R-55i	510	10/17/14	WG	Flow (in gpm)	2.5	gpm	CAMO-14-87140
R-55i	510	04/16/14	WG	Flow (in gpm)	2.2	gpm	CAMO-14-57546
R-55i	510	11/01/11	WG	Flow (in gpm)	2.2	gpm	CAPA-12-1224
R-55i	510	11/01/11	WG	Flow (in gpm)	2.2	gpm	CAPA-12-1284
R-55i	510	11/01/11	WG	Flow (in gpm)	2.2	gpm	CAPA-12-1286
R-55i	510	11/01/11	WG	Flow (in gpm)	2.2	gpm	CAPA-12-1288

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55i	510	11/01/11	WG	Flow (in gpm)	2.2	gpm	CAPA-12-1290
R-55i	510	07/18/11	WG	Flow (in gpm)	2.3	gpm	CAPA-11-14771
R-55i	510	07/18/11	WG	Flow (in gpm)	2.3	gpm	CAPA-11-22978
R-55i	510	07/18/11	WG	Flow (in gpm)	2.3	gpm	CAPA-11-14767
R-55i	510	07/18/11	WG	Flow (in gpm)	2.3	gpm	CAPA-11-14769
R-55i	510	05/10/11	WG	Flow (in gpm)	2.4	gpm	CAPA-11-10606
R-55i	510	10/17/14	WG	Oxidation-Reduction Potential	-20.9	mV	CAMO-14-87140
R-55i	510	04/16/14	WG	Oxidation-Reduction Potential	-25.6	mV	CAMO-14-57546
R-55i	510	12/12/13	WG	Oxidation-Reduction Potential	-36.8	mV	CAMO-14-49333
R-55i	510	04/18/13	WG	Oxidation-Reduction Potential	-81.7	mV	CAMO-13-29631
R-55i	510	10/25/12	WG	Oxidation-Reduction Potential	-73.4	mV	CAMO-12-23864
R-55i	510	10/17/14	WG	pH	7.39	SU	CAMO-14-87140
R-55i	510	04/16/14	WG	pH	7.33	SU	CAMO-14-57546
R-55i	510	12/12/13	WG	pH	7.21	SU	CAMO-14-49333
R-55i	510	04/18/13	WG	pH	7.16	SU	CAMO-13-29631
R-55i	510	10/25/12	WG	pH	7.28	SU	CAMO-12-23864
R-55i	510	10/17/14	WG	Specific Conductance	314	µS/cm	CAMO-14-87140
R-55i	510	04/16/14	WG	Specific Conductance	317	µS/cm	CAMO-14-57546
R-55i	510	12/12/13	WG	Specific Conductance	323	µS/cm	CAMO-14-49333
R-55i	510	04/18/13	WG	Specific Conductance	318	µS/cm	CAMO-13-29631
R-55i	510	10/25/12	WG	Specific Conductance	319	µS/cm	CAMO-12-23864
R-55i	510	10/17/14	WG	Temperature	18.19	deg C	CAMO-14-87140
R-55i	510	04/16/14	WG	Temperature	18.42	deg C	CAMO-14-57546
R-55i	510	12/12/13	WG	Temperature	16.65	deg C	CAMO-14-49333
R-55i	510	04/18/13	WG	Temperature	16.95	deg C	CAMO-13-29631
R-55i	510	10/25/12	WG	Temperature	16.97	deg C	CAMO-12-23864
R-55i	510	10/17/14	WG	Turbidity	0.9	NTU	CAMO-14-87140
R-55i	510	04/16/14	WG	Turbidity	0.7	NTU	CAMO-14-57546

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55i	510	12/12/13	WG	Turbidity	1.1	NTU	CAMO-14-49333
R-55i	510	04/18/13	WG	Turbidity	0.5	NTU	CAMO-13-29631
R-55i	510	10/25/12	WG	Turbidity	2.57	NTU	CAMO-12-23864
R-56 S1	945	10/30/14	WG	Dissolved Oxygen	6.79	mg/L	CAPA-14-87204
R-56 S1	945	07/17/14	WG	Dissolved Oxygen	6.74	mg/L	CAPA-14-81483
R-56 S1	945	04/18/14	WG	Dissolved Oxygen	6.5	mg/L	CAPA-14-57753
R-56 S1	945	01/23/14	WG	Dissolved Oxygen	6.82	mg/L	CAPA-14-49712
R-56 S1	945	12/17/13	WG	Dissolved Oxygen	6.68	mg/L	CAPA-14-49398
R-56 S1	945	10/30/14	WG	Flow (in gpm)	4.2	gpm	CAPA-14-87204
R-56 S1	945	07/17/14	WG	Flow (in gpm)	4.05	gpm	CAPA-14-81483
R-56 S1	945	04/18/14	WG	Flow (in gpm)	4.16	gpm	CAPA-14-57753
R-56 S1	945	01/23/14	WG	Flow (in gpm)	4.17	gpm	CAPA-14-49712
R-56 S1	945	11/02/11	WG	Flow (in gpm)	4	gpm	CAPA-12-1207
R-56 S1	945	10/30/14	WG	Oxidation-Reduction Potential	74	mV	CAPA-14-87204
R-56 S1	945	07/17/14	WG	Oxidation-Reduction Potential	72.2	mV	CAPA-14-81483
R-56 S1	945	04/18/14	WG	Oxidation-Reduction Potential	171.4	mV	CAPA-14-57753
R-56 S1	945	01/23/14	WG	Oxidation-Reduction Potential	-83.3	mV	CAPA-14-49712
R-56 S1	945	12/17/13	WG	Oxidation-Reduction Potential	129.5	mV	CAPA-14-49398
R-56 S1	945	10/30/14	WG	pH	8.07	SU	CAPA-14-87204
R-56 S1	945	07/17/14	WG	pH	7.99	SU	CAPA-14-81483
R-56 S1	945	04/18/14	WG	pH	8.02	SU	CAPA-14-57753
R-56 S1	945	01/23/14	WG	pH	8.09	SU	CAPA-14-49712
R-56 S1	945	12/17/13	WG	pH	7.88	SU	CAPA-14-49398
R-56 S1	945	10/30/14	WG	Specific Conductance	150	µS/cm	CAPA-14-87204
R-56 S1	945	07/17/14	WG	Specific Conductance	151	µS/cm	CAPA-14-81483
R-56 S1	945	04/18/14	WG	Specific Conductance	155	µS/cm	CAPA-14-57753
R-56 S1	945	01/23/14	WG	Specific Conductance	153	µS/cm	CAPA-14-49712
R-56 S1	945	12/17/13	WG	Specific Conductance	151	µS/cm	CAPA-14-49398

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56 S1	945	10/30/14	WG	Temperature	21.11	deg C	CAPA-14-87204
R-56 S1	945	07/17/14	WG	Temperature	21.42	deg C	CAPA-14-81483
R-56 S1	945	04/18/14	WG	Temperature	20.41	deg C	CAPA-14-57753
R-56 S1	945	01/23/14	WG	Temperature	20.21	deg C	CAPA-14-49712
R-56 S1	945	12/17/13	WG	Temperature	21.08	deg C	CAPA-14-49398
R-56 S1	945	10/30/14	WG	Turbidity	0.21	NTU	CAPA-14-87204
R-56 S1	945	07/17/14	WG	Turbidity	0.32	NTU	CAPA-14-81483
R-56 S1	945	04/18/14	WG	Turbidity	0	NTU	CAPA-14-57753
R-56 S1	945	01/23/14	WG	Turbidity	0.31	NTU	CAPA-14-49712
R-56 S1	945	12/17/13	WG	Turbidity	0.7	NTU	CAPA-14-49398
R-56 S2	1046.6	10/30/14	WG	Dissolved Oxygen	5.84	mg/L	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Dissolved Oxygen	5.81	mg/L	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Dissolved Oxygen	5.47	mg/L	CAPA-14-49399
R-56 S2	1046.6	04/24/13	WG	Dissolved Oxygen	5.54	mg/L	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Dissolved Oxygen	5.27	mg/L	CAPA-12-23818
R-56 S2	1046.6	10/30/14	WG	Flow (in gpm)	4.1	gpm	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Flow (in gpm)	4.16	gpm	CAPA-14-57754
R-56 S2	1046.6	11/02/11	WG	Flow (in gpm)	4	gpm	CAPA-12-1213
R-56 S2	1046.6	07/20/11	WG	Flow (in gpm)	4	gpm	CAPA-11-14750
R-56 S2	1046.6	07/20/11	WG	Flow (in gpm)	4	gpm	CAPA-11-14752
R-56 S2	1046.6	07/20/11	WG	Flow (in gpm)	4	gpm	CAPA-11-23032
R-56 S2	1046.6	07/20/11	WG	Flow (in gpm)	4	gpm	CAPA-11-14748
R-56 S2	1046.6	05/10/11	WG	Flow (in gpm)	4	gpm	CAPA-11-9514
R-56 S2	1046.6	10/30/14	WG	Oxidation-Reduction Potential	92.9	mV	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Oxidation-Reduction Potential	158	mV	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Oxidation-Reduction Potential	154.1	mV	CAPA-14-49399
R-56 S2	1046.6	04/24/13	WG	Oxidation-Reduction Potential	174.1	mV	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Oxidation-Reduction Potential	55.5	mV	CAPA-12-23818

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56 S2	1046.6	10/30/14	WG	pH	8.33	SU	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	pH	8.34	SU	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	pH	8.26	SU	CAPA-14-49399
R-56 S2	1046.6	04/24/13	WG	pH	8.31	SU	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	pH	8.36	SU	CAPA-12-23818
R-56 S2	1046.6	10/30/14	WG	Specific Conductance	131	µS/cm	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Specific Conductance	130	µS/cm	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Specific Conductance	132	µS/cm	CAPA-14-49399
R-56 S2	1046.6	04/24/13	WG	Specific Conductance	130	µS/cm	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Specific Conductance	131	µS/cm	CAPA-12-23818
R-56 S2	1046.6	10/30/14	WG	Temperature	21.73	deg C	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Temperature	21.58	deg C	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Temperature	20.68	deg C	CAPA-14-49399
R-56 S2	1046.6	04/24/13	WG	Temperature	21.2	deg C	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Temperature	20.79	deg C	CAPA-12-23818
R-56 S2	1046.6	10/30/14	WG	Turbidity	0.28	NTU	CAPA-14-87205
R-56 S2	1046.6	04/18/14	WG	Turbidity	0	NTU	CAPA-14-57754
R-56 S2	1046.6	12/17/13	WG	Turbidity	0.8	NTU	CAPA-14-49399
R-56 S2	1046.6	04/24/13	WG	Turbidity	0	NTU	CAPA-13-29583
R-56 S2	1046.6	10/18/12	WG	Turbidity	0.59	NTU	CAPA-12-23818
R-57 S1	910	10/16/14	WG	Dissolved Oxygen	5.23	mg/L	CAPA-14-87206
R-57 S1	910	07/14/14	WG	Dissolved Oxygen	5.24	mg/L	CAPA-14-81484
R-57 S1	910	04/03/14	WG	Dissolved Oxygen	5.18	mg/L	CAPA-14-57755
R-57 S1	910	01/08/14	WG	Dissolved Oxygen	4.79	mg/L	CAPA-14-49713
R-57 S1	910	12/05/13	WG	Dissolved Oxygen	5.02	mg/L	CAPA-14-49400
R-57 S1	910	10/16/14	WG	Flow (in gpm)	3.57	gpm	CAPA-14-87206
R-57 S1	910	07/14/14	WG	Flow (in gpm)	3.53	gpm	CAPA-14-81484
R-57 S1	910	04/03/14	WG	Flow (in gpm)	3.57	gpm	CAPA-14-57755

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57 S1	910	01/08/14	WG	Flow (in gpm)	3.6	gpm	CAPA-14-49713
R-57 S1	910	12/05/13	WG	Flow (in gpm)	3.6	gpm	CAPA-14-49400
R-57 S1	910	10/16/14	WG	Oxidation-Reduction Potential	27.2	mV	CAPA-14-87206
R-57 S1	910	07/14/14	WG	Oxidation-Reduction Potential	19.7	mV	CAPA-14-81484
R-57 S1	910	04/03/14	WG	Oxidation-Reduction Potential	106.1	mV	CAPA-14-57755
R-57 S1	910	01/08/14	WG	Oxidation-Reduction Potential	-50.8	mV	CAPA-14-49713
R-57 S1	910	12/05/13	WG	Oxidation-Reduction Potential	37	mV	CAPA-14-49400
R-57 S1	910	10/16/14	WG	pH	7.62	SU	CAPA-14-87206
R-57 S1	910	07/14/14	WG	pH	7.87	SU	CAPA-14-81484
R-57 S1	910	04/03/14	WG	pH	7.83	SU	CAPA-14-57755
R-57 S1	910	01/08/14	WG	pH	7.73	SU	CAPA-14-49713
R-57 S1	910	12/05/13	WG	pH	7.85	SU	CAPA-14-49400
R-57 S1	910	10/16/14	WG	Specific Conductance	140	µS/cm	CAPA-14-87206
R-57 S1	910	07/14/14	WG	Specific Conductance	146	µS/cm	CAPA-14-81484
R-57 S1	910	04/03/14	WG	Specific Conductance	144	µS/cm	CAPA-14-57755
R-57 S1	910	01/08/14	WG	Specific Conductance	141	µS/cm	CAPA-14-49713
R-57 S1	910	12/05/13	WG	Specific Conductance	141	µS/cm	CAPA-14-49400
R-57 S1	910	10/16/14	WG	Temperature	22.4	deg C	CAPA-14-87206
R-57 S1	910	07/14/14	WG	Temperature	23.23	deg C	CAPA-14-81484
R-57 S1	910	04/03/14	WG	Temperature	21.93	deg C	CAPA-14-57755
R-57 S1	910	01/08/14	WG	Temperature	18.1	deg C	CAPA-14-49713
R-57 S1	910	12/05/13	WG	Temperature	21.83	deg C	CAPA-14-49400
R-57 S1	910	10/16/14	WG	Turbidity	0.31	NTU	CAPA-14-87206
R-57 S1	910	07/14/14	WG	Turbidity	0.27	NTU	CAPA-14-81484
R-57 S1	910	04/03/14	WG	Turbidity	0.5	NTU	CAPA-14-57755
R-57 S1	910	01/08/14	WG	Turbidity	0	NTU	CAPA-14-49713
R-57 S1	910	12/05/13	WG	Turbidity	0.5	NTU	CAPA-14-49400
R-57 S2	971.5	10/16/14	WG	Dissolved Oxygen	5.24	mg/L	CAPA-14-87207

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57 S2	971.5	04/03/14	WG	Dissolved Oxygen	5.85	mg/L	CAPA-14-57756
R-57 S2	971.5	12/05/13	WG	Dissolved Oxygen	5.9	mg/L	CAPA-14-49401
R-57 S2	971.5	04/10/13	WG	Dissolved Oxygen	5.75	mg/L	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Dissolved Oxygen	5.06	mg/L	CAPA-12-23820
R-57 S2	971.5	10/16/14	WG	Flow (in gpm)	3.57	gpm	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Flow (in gpm)	3.66	gpm	CAPA-14-57756
R-57 S2	971.5	12/05/13	WG	Flow (in gpm)	3.6	gpm	CAPA-14-49401
R-57 S2	971.5	10/21/11	WG	Flow (in gpm)	3.3	gpm	CAPA-12-1218
R-57 S2	971.5	07/13/11	WG	Flow (in gpm)	3.4	gpm	CAPA-11-23039
R-57 S2	971.5	07/13/11	WG	Flow (in gpm)	3.4	gpm	CAPA-11-14762
R-57 S2	971.5	07/13/11	WG	Flow (in gpm)	3.4	gpm	CAPA-11-14760
R-57 S2	971.5	07/13/11	WG	Flow (in gpm)	3.4	gpm	CAPA-11-14765
R-57 S2	971.5	10/16/14	WG	Oxidation-Reduction Potential	-4.4	mV	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Oxidation-Reduction Potential	105.9	mV	CAPA-14-57756
R-57 S2	971.5	12/05/13	WG	Oxidation-Reduction Potential	66.6	mV	CAPA-14-49401
R-57 S2	971.5	04/10/13	WG	Oxidation-Reduction Potential	47.7	mV	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Oxidation-Reduction Potential	49.8	mV	CAPA-12-23820
R-57 S2	971.5	10/16/14	WG	pH	7.66	SU	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	pH	7.81	SU	CAPA-14-57756
R-57 S2	971.5	12/05/13	WG	pH	7.85	SU	CAPA-14-49401
R-57 S2	971.5	04/10/13	WG	pH	7.75	SU	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	pH	7.73	SU	CAPA-12-23820
R-57 S2	971.5	10/16/14	WG	Specific Conductance	137	µS/cm	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Specific Conductance	138	µS/cm	CAPA-14-57756
R-57 S2	971.5	12/05/13	WG	Specific Conductance	134	µS/cm	CAPA-14-49401
R-57 S2	971.5	04/10/13	WG	Specific Conductance	138	µS/cm	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Specific Conductance	132	µS/cm	CAPA-12-23820
R-57 S2	971.5	10/16/14	WG	Temperature	23.22	deg C	CAPA-14-87207

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57 S2	971.5	04/03/14	WG	Temperature	21.13	deg C	CAPA-14-57756
R-57 S2	971.5	12/05/13	WG	Temperature	21.7	deg C	CAPA-14-49401
R-57 S2	971.5	04/10/13	WG	Temperature	22.12	deg C	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Temperature	22.11	deg C	CAPA-12-23820
R-57 S2	971.5	10/16/14	WG	Turbidity	0.45	NTU	CAPA-14-87207
R-57 S2	971.5	04/03/14	WG	Turbidity	0.5	NTU	CAPA-14-57756
R-57 S2	971.5	12/05/13	WG	Turbidity	0.8	NTU	CAPA-14-49401
R-57 S2	971.5	04/10/13	WG	Turbidity	2.2	NTU	CAPA-13-29585
R-57 S2	971.5	10/10/12	WG	Turbidity	0.81	NTU	CAPA-12-23820

[a] WG = Groundwater.

[b] gpm = Gallons per minute.

[c] SU = Standard unit.

[d] NTU = Nephelometric turbidity unit.

Appendix B

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

Appendix C

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

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

Acronyms and Abbreviations

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

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

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

Analytical Laboratory Qualifier Codes

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

Analytical Laboratory Qualifier Codes (continued)

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

Analytical Laboratory Qualifier Codes (continued)

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

Secondary Validation Flag Codes

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

Table C-1 TA-54 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-23	816	07/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.366	0.613	1.871	—	pCi/L	Y	U	U	2014-3873	CAPA-14-81480	ARSL
R-23	816	04/04/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.06	0.58	1.97	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57733	ARSL
R-23	816	01/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.667	0.636	2.091	—	pCi/L	Y	U	U	2014-2748	CAPA-14-49709	ARSL
R-23	816	01/07/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.972	0.572	1.954	—	pCi/L	Y	U	U	2014-2748	CAPA-14-49702	ARSL
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.502	0.678	2.07	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49378	ARSL
R-23	816	04/23/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.644	0.67	2.213	—	pCi/L	Y	U	U	2013-765	CAPA-13-29562	ARSL
R-37 S1	929.3	07/10/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	14.876	2.398	2.083	—	pCi/L	Y	—	J-	2014-3869	CAMO-14-81467	ARSL
R-37 S1	929.3	06/10/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	17.67	3.11	4.39	—	pCi/L	Y	—	NQ	2014-3540	CAMO-14-57541	ARSL
R-37 S1	929.3	06/10/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	14.61	2.83	5.08	—	pCi/L	Y	—	NQ	2014-3540	CAMO-14-57532	ARSL
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	28.477	4.38	1.755	—	pCi/L	Y	—	J-	2014-2650	CAMO-14-49328	ARSL
R-37 S1	929.3	07/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	26.229	4.078	2.109	—	pCi/L	Y	—	J-	2013-1191	CAMO-13-36941	ARSL
R-37 S1	929.3	07/11/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	11.429	1.887	1.921	—	pCi/L	Y	—	J-	2013-1191	CAMO-13-36945	ARSL
R-37 S1	929.3	04/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	29.449	4.548	2.093	—	pCi/L	Y	—	NQ	2013-740	CAMO-13-29626	ARSL
R-37 S1	929.3	04/17/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	30.5	4.713	2.194	—	pCi/L	Y	—	NQ	2013-740	CAMO-13-29614	ARSL
R-37 S1	929.3	01/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	29.209	4.508	2.013	—	pCi/L	Y	—	NQ	2013-493	CAMO-13-26655	ARSL
R-37 S2	1026	07/09/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.979	0.72	2.091	—	pCi/L	Y	U	U	2014-3726	CAMO-14-81468	ARSL
R-37 S2	1026	04/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.456	0.641	2.137	—	pCi/L	Y	U	U	2014-3280	CAMO-14-57542	ARSL
R-37 S2	1026	01/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.696	0.647	2.125	—	pCi/L	Y	U	U	2014-2747	CAMO-14-49724	ARSL
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.937	0.648	2.088	—	pCi/L	Y	U	U	2014-2650	CAMO-14-49329	ARSL
R-37 S2	1026	07/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.38	0.646	1.982	—	pCi/L	Y	U	U	2013-1191	CAMO-13-36942	ARSL
R-39	859	07/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.762	0.622	2.027	—	pCi/L	Y	U	U	2014-3873	CAPA-14-81481	ARSL
R-39	859	04/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.141	0.587	2.004	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57738	ARSL
R-39	859	01/24/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.994	0.624	1.991	—	pCi/L	Y	U	U	2014-2828	CAPA-14-49710	ARSL
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.862	0.626	2.024	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49383	ARSL
R-39	859	07/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.233	0.601	2.029	—	pCi/L	Y	U	U	2013-1323	CAPA-13-36953	ARSL
R-41 S2	965.3	07/09/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.615	0.638	2.107	—	pCi/L	Y	U	U	2014-3725	CAPA-14-81482	ARSL
R-41 S2	965.3	04/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.177	0.639	2.159	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57742	ARSL
R-41 S2	965.3	01/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.769	0.679	2.224	—	pCi/L	Y	U	U	2014-2799	CAPA-14-49711	ARSL
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.987	0.593	1.884	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49387	ARSL
R-41 S2	965.3	07/15/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.698	0.672	1.992	—	pCi/L	Y	U	U	2013-1188	CAPA-13-36954	ARSL
R-55 S1	860	07/11/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.887	0.629	2.029	—	pCi/L	Y	U	U	2014-3869	CAMO-14-81469	ARSL
R-55 S1	860	04/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.723	0.718	2.157	—	pCi/L	Y	U	U	2014-3168	CAMO-14-57544	ARSL
R-55 S1	860	01/08/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.726	0.681	2.025	—	pCi/L	Y	U	U	2014-2747	CAMO-14-49725	ARSL
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.56	0.79	2.63	—	pCi/L	Y	U	U	2014-2604	CAMO-14-49331	ARSL
R-55 S1	860	04/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.697	0.647	2.125	—	pCi/L	Y	U	U	2013-764	CAMO-13-29629	ARSL
R-56 S1	945	07/17/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.454	0.622	2.075	—	pCi/L	Y	U	U	2014-4000	CAPA-14-81483	ARSL
R-56 S1	945	04/18/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.493	0.528	1.815	—	pCi/L	Y	U	U	2014-3281	CAPA-14-57753	ARSL
R-56 S1	945	01/23/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.388	0.61	2.098	—	pCi/L	Y	U	U	2014-2800	CAPA-14-49712	ARSL
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.729	0.634	2.074	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49398	ARSL
R-56 S1	945	07/23/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.721	0.618	2.02	—	pCi/L	Y	U	U	2013-1323	CAPA-13-36955	ARSL
R-57 S1	910	07/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.372	0.592	1.98	—	pCi/L	Y	U	U	2014-3873	CAPA-14-81484	ARSL
R-57 S1	910	07/14/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.26	0.658	2.056	—	pCi/L	Y	U	U	2014-3873	CAPA-14-81474	ARSL

Table C-1 TA-54 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-57 S1	910	04/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.16	0.7	2.39	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57755	ARSL
R-57 S1	910	04/03/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.75	0.86	2.96	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57706	ARSL
R-57 S1	910	01/08/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.701	0.619	2.027	—	pCi/L	Y	U	U	2014-2748	CAPA-14-49713	ARSL
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.417	0.608	2.034	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49400	ARSL
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.381	0.622	1.895	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49346	ARSL
R-57 S1	910	07/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.567	0.655	2.172	—	pCi/L	Y	U	U	2013-1323	CAPA-13-36956	ARSL

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.6	—	—	0.01	SU	Y	H	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.66	—	—	0.01	SU	Y	H	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.3	—	—	0.01	SU	Y	H	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	6.18	—	—	0.01	SU	Y	H	NQ	2014-2694	CAPA-14-49316	GELC
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	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	44.2	—	—	0.725	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	37.8	—	—	0.725	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	37.3	—	—	0.725	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	37.5	—	—	0.725	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	7370	—	—	68	µg/L	Y	N	J+	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Aluminum	Al	Y	1900	—	—	68	µg/L	Y	N	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Aluminum	Al	Y	2190	—	—	68	µg/L	Y	N	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	Y	5950	—	—	68	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Aluminum	Al	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	Al	Y	3040	—	—	68	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.04	—	—	1.7	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	81.5	—	—	1	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	57.5	—	—	1	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	59	—	—	1	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	53.2	—	—	1	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	45.7	—	—	15	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	41.4	—	—	15	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	42.2	—	—	15	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	33.2	—	—	15	µg/L	Y	J	J	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.61	—	—	0.05	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	9.82	—	—	0.05	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	7.4	—	—	0.05	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.2	—	—	0.05	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	50.1	—	—	0.67	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	38.9	—	—	0.67	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	38.9	—	—	0.67	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	30.1	—	—	0.335	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	13.8	—	—	0.134	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:300.0	Chloride	Cl(-1)	Y	78	—	—	0.67	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.43	—	—	0.3	µg/L	Y	HJ	J	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.56	—	—	0.3	µg/L	Y	HJ	J	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.63	—	—	0.3	µg/L	Y	HJ	J	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	N	1	—	—	0.3	µg/L	Y	U	U	2014-2715	CAPA-14-49315	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.53	—	—	0.3	µg/L	Y	J	J	2013-760	CAPA-13-29662	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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	10/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Chloroform	67-66-3	Y	0.83	—	—	0.3	µg/L	Y	J	J	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.8	—	—	2	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.18	—	—	2	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.1	—	—	2	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	5.09	—	—	2	µg/L	Y	J	J	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	Y	1.27	—	—	1	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	Y	1.05	—	—	1	µg/L	Y	J	J	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Cobalt	Co	N	5	—	—	1	µg/L	Y	U	U	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	6.08	—	—	3	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.21	—	—	3	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Copper	Cu	Y	3.09	—	—	3	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Copper	Cu	Y	4.54	—	—	3	µg/L	Y	J	J	2014-2694	CAPA-14-49316	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	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	1.29	—	—	0.3	µg/L	Y	H	NQ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	1.66	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	1.56	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethane[1,1-]	75-34-3	Y	1.18	—	—	0.3	µg/L	Y	—	NQ	2014-2715	CAPA-14-49315	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	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	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	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	Y	0.85	—	—	0.3	µg/L	Y	HJ	J	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	Y	3.44	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	N	1	—	—	0.3	µg/L	Y	UH	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[1,1-]	75-35-4	Y	2.04	—	—	0.3	µg/L	Y	—	NQ	2014-2715	CAPA-14-49315	GELC
03-B-13	21.5	04/23/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[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	DL	REG	VOC	SW-846:8260B	Dichloroethene[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	10/23/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[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	10/14/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	19.4	—	—	3.06	µg/L	N	—	J-	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	10/14/14	WG	UF	RE	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	21.5	—	—	3.06	µg/L	Y	—	NQ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	33.9	—	—	3	µg/L	Y	—	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	29	—	—	3.13	µg/L	Y	—	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	Y	38.5	—	—	3.13	µg/L	Y	—	NQ	2014-2715	CAPA-14-49315	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	Y	J	J	2013-760	CAPA-13-29662	GELC
03-B-13	21.5	10/23/12	WG	UF	DL	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	Y	441	—	—	31.3	µg/L	Y	—	NQ	2013-208	CAPA-12-23794	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0988	—	—	0.033	mg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.0925	—	—	0.033	mg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.072	—	—	0.033	mg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.131	—	—	0.033	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.141	—	—	0.033	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:300.0	Fluoride	F(-1)	Y	0.118	—	—	0.033	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.9	—	—	0.453	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	34.1	—	—	0.453	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	35.1	—	—	0.453	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	27.2	—	—	0.453	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	4170	—	—	30	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	1310	—	—	30	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Iron	Fe	Y	1500	—	—	30	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	3470	—	—	30	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	4.23	—	—	0.5	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	2.74	—	—	0.5	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Lead	Pb	Y	2.75	—	—	0.5	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Lead	Pb	Y	4.37	—	—	0.5	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.58	—	—	0.11	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.46	—	—	0.11	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.57	—	—	0.11	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.12	—	—	0.11	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	19	—	—	2	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	8.22	—	—	2	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Manganese	Mn	Y	8.83	—	—	2	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	19.5	—	—	2	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	Y	0.102	—	—	0.067	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.067	µg/L	Y	U	U	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.067	µg/L	Y	U	U	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	Y	0.098	—	—	0.067	µg/L	Y	J	J	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.067	µg/L	Y	U	U	2013-760	CAPA-13-29673	GELC
03-B-13	21.5	10/23/12	WG	F	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.067	µg/L	Y	U	U	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	Y	0.08	—	—	0.067	µg/L	Y	J	J	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.067	µg/L	Y	U	U	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.067	µg/L	Y	U	U	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	Y	0.075	—	—	0.067	µg/L	Y	J	J	2014-2715	CAPA-14-49315	GELC
03-B-13	21.5	10/21/11	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.066	µg/L	Y	U	U	12-147	CAPA-12-1132	GELC
03-B-13	21.5	07/11/11	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	Y	0.205	—	—	0.066	µg/L	Y	—	NQ	11-2783	CAPA-11-22661	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.667	—	—	0.165	µg/L	Y	—	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.367	—	—	0.165	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.366	—	—	0.165	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	0.745	—	—	0.165	µg/L	Y	—	U	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.23	—	—	0.5	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.73	—	—	0.5	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.77	—	—	0.5	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.03	—	—	0.5	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.2	—	—	0.5	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-846:6020	Nickel	Ni	Y	2.06	—	—	0.5	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.307	—	—	0.017	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.529	—	—	0.017	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.561	—	—	0.017	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.303	—	—	0.017	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.12	—	—	0.017	mg/L	Y	—	NQ	2013-760	CAPA-13-29673	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.453	—	—	0.085	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.177	—	—	0.05	µg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.388	—	—	0.05	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.382	—	—	0.05	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.0678	—	—	0.05	µg/L	Y	J	J	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.265	—	—	0.05	µg/L	Y	—	NQ	12-1236	CAPA-12-13287	GELC
03-B-13	21.5	10/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.126	—	—	0.05	µg/L	Y	J	J	12-147	CAPA-12-1129	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	6.5	—	—	0.05	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	5.35	—	—	0.05	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	5.43	—	—	0.05	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	4.95	—	—	0.05	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	43.6	—	—	0.053	mg/L	Y	—	J+	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	18.2	—	—	0.053	mg/L	Y	N	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	19.8	—	—	0.053	mg/L	Y	N	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	35.4	—	—	0.053	mg/L	Y	N	J+	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	34	—	—	0.1	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	28.9	—	—	0.1	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	29.5	—	—	0.1	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	26.2	—	—	0.1	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	259	—	—	3.63	uS/cm	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	234	—	—	1	uS/cm	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	232	—	—	1	uS/cm	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	194	—	—	1	uS/cm	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	uS/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_CONDC	Y	420	—	—	1	uS/cm	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	76.7	—	—	1	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	55.2	—	—	1	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	56.5	—	—	1	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	39.4	—	—	1	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	23.8	—	—	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	Strontium	Sr	Y	89.4	—	—	1	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.04	—	—	0.133	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.71	—	—	0.133	mg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.67	—	—	0.133	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.97	—	—	0.133	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.37	—	—	0.133	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:300.0	Sulfate	SO4(-2)	Y	12.9	—	—	0.133	mg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	204	—	—	3.4	mg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	166	—	—	3.4	mg/L	Y	—	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	184	—	—	3.4	mg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	163	—	—	3.4	mg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	3.4	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: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	10/14/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.718	—	—	0.033	mg/L	Y	—	J	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.226	—	—	0.033	mg/L	Y	—	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.298	—	—	0.033	mg/L	Y	—	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.314	—	—	0.033	mg/L	Y	—	NQ	2014-2715	CAPA-14-49315	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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	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	10/14/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	5.15	—	—	0.33	mg/L	Y	—	NQ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.85	—	—	0.33	mg/L	Y	—	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.92	—	—	0.33	mg/L	Y	—	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.33	—	—	0.33	mg/L	Y	—	NQ	2014-2715	CAPA-14-49315	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	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0297	—	—	0.017	mg/L	Y	J	J	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	1.23	—	—	0.017	mg/L	Y	—	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	2.14	—	—	0.017	mg/L	Y	—	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0544	—	—	0.017	mg/L	Y	—	U	2014-2694	CAPA-14-49316	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	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	72.3	—	—	0.3	µg/L	Y	H	NQ	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	97.4	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	95.2	—	—	0.3	µg/L	Y	H	NQ	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethane[1,1,1-]	71-55-6	Y	52.9	—	—	0.3	µg/L	Y	—	NQ	2014-2715	CAPA-14-49315	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	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	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	10/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.58	—	—	0.3	µg/L	Y	HJ	J	2015-80	CAPA-14-87121	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.72	—	—	0.3	µg/L	Y	HJ	J	2014-3209	CAPA-14-56383	GELC
03-B-13	21.5	04/14/14	WG	UF	INIT	FD	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.66	—	—	0.3	µg/L	Y	HJ	J	2014-3209	CAPA-14-56371	GELC
03-B-13	21.5	12/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.51	—	—	0.3	µg/L	Y	J	J	2014-2715	CAPA-14-49315	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	12/19/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.51	—	—	0.3	µg/L	Y	J	J	2014-2715	CAPA-14-49315	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	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	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.322	—	—	0.067	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.235	—	—	0.067	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.213	—	—	0.067	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.336	—	—	0.067	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	GELC
03-B-13	21.5	04/23/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.232	—	—	0.067	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	Uranium	U	Y	0.39	—	—	0.067	µg/L	Y	—	NQ	2013-208	CAPA-12-23821	GELC
03-B-13	21.5	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.85	—	—	1	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.82	—	—	1	µg/L	Y	J	J	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.95	—	—	1	µg/L	Y	J	J	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.66	—	—	1	µg/L	Y	J	J	2014-2694	CAPA-14-49316	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	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	23.3	—	—	3.3	µg/L	Y	—	NQ	2015-80	CAPA-14-87122	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	13.1	—	—	3.3	µg/L	Y	—	NQ	2014-3209	CAPA-14-56394	GELC
03-B-13	21.5	04/14/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	13.3	—	—	3.3	µg/L	Y	—	NQ	2014-3209	CAPA-14-56373	GELC
03-B-13	21.5	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	21.8	—	—	3.3	µg/L	Y	—	NQ	2014-2694	CAPA-14-49316	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
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.71	—	—	0.01	SU	Y	H	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.38	—	—	0.01	SU	Y	H	NQ	2014-3163	CAPA-14-56398	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	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	51.8	—	—	0.725	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	50.2	—	—	0.725	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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	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	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	3.66	—	—	1	µg/L	Y	J	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	4.6	—	—	1	µg/L	Y	J	J	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	4.23	—	—	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	Barium	Ba	Y	4.56	—	—	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	Barium	Ba	Y	4.27	—	—	1	µg/L	Y	J	J	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.73	—	—	0.05	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	8.99	—	—	0.05	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	9.04	—	—	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	Calcium	Ca	Y	8.89	—	—	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	Calcium	Ca	Y	8.91	—	—	0.05	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.46	—	—	0.067	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.44	—	—	0.067	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	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(-1)	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(-1)	Y	1.4	—	—	0.066	mg/L	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.181	—	—	0.033	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.165	—	—	0.033	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	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(-1)	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(-1)	Y	0.188	—	—	0.033	mg/L	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	30.8	—	—	0.453	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.5	—	—	0.453	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	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	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	31.4	—	—	0.45	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.18	—	—	0.11	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.19	—	—	0.11	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.25	—	—	0.11	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.23	—	—	0.11	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.23	—	—	0.11	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.11	—	—	0.165	µg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.03	—	—	0.165	µg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.165	µg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.898	—	—	0.17	µg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.834	—	—	0.5	µg/L	Y	J	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.584	—	—	0.5	µg/L	Y	J	J	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2	—	—	0.5	µg/L	Y	U	U	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.504	—	—	0.5	µg/L	Y	J	J	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.173	—	—	0.017	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.15	—	—	0.017	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	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	10/27/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.145	—	—	0.05	µg/L	Y	J	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.171	—	—	0.05	µg/L	Y	J	J	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.181	—	—	0.05	µg/L	Y	J	J	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.169	—	—	0.05	µg/L	Y	J	J	11-2911	CAPA-11-22853	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.183	—	—	0.05	µg/L	Y	J	J	11-2336	CAPA-11-9284	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.362	—	—	0.05	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	0.295	—	—	0.05	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	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	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	67.4	—	—	0.053	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.1	—	—	0.053	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.4	—	—	0.053	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.5	—	—	0.053	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.5	—	—	0.053	mg/L	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	14	—	—	0.1	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	11-2336	CAPA-11-9284	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	98.1	—	—	3.63	uS/cm	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	105	—	—	1	uS/cm	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	112	—	—	1	uS/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	uS/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	uS/cm	Y	—	NQ	11-2911	CAPA-11-22853	GELC
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	48.6	—	—	1	µg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	67.8	—	—	1	µg/L	Y	—	NQ	2014-3163	CAPA-14-56398	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	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.61	—	—	0.133	mg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.64	—	—	0.133	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	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	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	81.4	—	—	3.4	mg/L	Y	—	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	NQ	2014-3163	CAPA-14-56398	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	10/27/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.454	—	—	0.33	mg/L	Y	J	J-	2015-161	CAPA-14-89328	GELC
PCI-2	512	04/08/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-3163	CAPA-14-56387	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	Y	U	U	11-2911	CAPA-11-22851	GELC
PCI-2	512	10/27/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.694	0.873	2.903	—	pCi/L	Y	U	U	2015-183	CAPA-14-89328	ARSL
PCI-2	512	04/15/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.82	0.753	2.26	—	pCi/L	Y	U	U	2013-736	CAPA-13-29666	ARSL
PCI-2	512	07/22/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.2236	0.7084	2.3828	—	pCi/L	Y	U	U	11-2942	CAPA-11-22851	ARSL
PCI-2	512	05/06/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.8372	0.644	2.1252	—	pCi/L	Y	U	U	11-2438	CAPA-11-9283	ARSL
PCI-2	512	10/11/10	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	8.5652	1.4812	2.093	—	pCi/L	Y	—	NQ	11-112	CAPA-10-26957	ARSL
PCI-2	512	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.312	—	—	0.067	µg/L	Y	—	NQ	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.383	—	—	0.067	µg/L	Y	—	NQ	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.349	—	—	0.067	µg/L	Y	—	NQ	2013-728	CAPA-13-29677	GELC
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	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.47	—	—	1	µg/L	Y	J	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	1.46	—	—	1	µg/L	Y	J	J	2014-3163	CAPA-14-56398	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

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-846:6010B	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	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.44	—	—	3.3	µg/L	Y	J	J	2015-161	CAPA-14-89329	GELC
PCI-2	512	04/08/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-3163	CAPA-14-56398	GELC
PCI-2	512	04/15/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-728	CAPA-13-29677	GELC
PCI-2	512	04/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-1241	CAPA-12-13291	GELC
PCI-2	512	05/06/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2336	CAPA-11-9284	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.2	—	—	0.01	SU	Y	H	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.17	—	—	0.01	SU	Y	H	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.4	—	—	0.01	SU	Y	H	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.33	—	—	0.01	SU	Y	H	J-	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.44	—	—	0.01	SU	Y	H	J-	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.1	—	—	0.725	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.2	—	—	0.725	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.2	—	—	0.725	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.5	—	—	0.73	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.8	—	—	0.73	mg/L	Y	H	J-	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.154	0.122	0.402	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0112	0.00795	0.0452	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00388	0.00672	0.0529	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00145	0.0026	0.038	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00000295	0.0022	0.03	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	101	—	—	1	µg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	116	—	—	1	µg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	111	—	—	1	µg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	84.9	—	—	1	µg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	83.7	—	—	1	µg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.3	—	—	0.05	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.9	—	—	0.05	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.2	—	—	0.05	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.47	1.12	4.06	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.122	1.74	5.73	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.35	1.39	5.63	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.46	1.7	5.2	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.222	0.66	2.2	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.2	—	—	0.067	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.42	—	—	0.067	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.15	—	—	0.067	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.47	—	—	0.066	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.48	—	—	0.066	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.156	1.08	4.1	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.692	1.23	4.67	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.448	1.63	5.95	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.81	1.3	4.5	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.372	0.6	2	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.254	—	—	0.033	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.206	—	—	0.033	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.233	—	—	0.033	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.26	—	—	0.033	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.215	—	—	0.033	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.702	0.447	1.48	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.877	0.842	3	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.323	0.683	2.84	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.22	0.74	2.3	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	09/02/09	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	13.5	2.4	2.1	—	pCi/L	Y	—	NQ	09-3136	CAPA-09-12263	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.33	0.539	1.67	—	pCi/L	Y	—	NQ	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.14	0.593	1.91	—	pCi/L	Y	—	J	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.1	0.841	2.28	—	pCi/L	Y	—	NQ	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.98	0.81	2.3	—	pCi/L	Y	—	NQ	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	09/02/09	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	9.55	1.7	3.7	—	pCi/L	Y	—	NQ	09-3136	CAPA-09-12263	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.3	—	—	0.453	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.6	—	—	0.453	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.7	—	—	0.453	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.7	—	—	0.45	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43	—	—	0.45	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.18	—	—	0.11	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.57	—	—	0.11	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.62	—	—	0.11	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.18	—	—	0.11	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.42	—	—	0.11	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	15.4	—	—	2	µg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	23.3	—	—	2	µg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	24.3	—	—	2	µg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	13.9	—	—	2	µg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	21.3	—	—	2	µg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.37	—	—	0.165	µg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.36	—	—	0.165	µg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.55	—	—	0.165	µg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.27	—	—	0.17	µg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.15	—	—	0.17	µg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.26	2.2	7.69	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.29	3.32	12.4	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.18	2.85	10.3	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.99	2.7	7.6	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.49	4.8	15	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.09	—	—	0.5	µg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.3	—	—	0.5	µg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.42	—	—	0.5	µg/L	Y	J	J	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.852	—	—	0.5	µg/L	Y	J	J	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.752	—	—	0.5	µg/L	Y	J	J	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.232	—	—	0.017	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.284	—	—	0.017	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.189	—	—	0.017	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.225	—	—	0.05	mg/L	Y	J	J	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.05	—	—	0.01	mg/L	Y	U	UJ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.191	—	—	0.05	µg/L	Y	J	J	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.165	—	—	0.05	µg/L	Y	J	J	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.135	—	—	0.05	µg/L	Y	J	J	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.154	—	—	0.05	µg/L	Y	J	J	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.071	—	—	0.05	µg/L	Y	J	J	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	5.44E-09	0.04	0.219	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00619	0.00875	0.0266	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00298	0.00516	0.0339	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0041	0.018	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00975	0.0044	0.034	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0163	0.049	0.323	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00978	0.064	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00298	0.00788	0.0403	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.002	0.03	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0156	0.0056	0.024	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.09	—	—	0.05	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.53	—	—	0.05	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.47	—	—	0.05	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.78	—	—	0.05	mg/L	Y	—	J	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.7	—	—	0.05	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	2.08	14.4	46.8	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.6	19.5	70.1	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.7	20.6	76.8	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	30.5	20	67	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-15.7	10	28	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	66.8	—	—	0.053	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.9	—	—	0.053	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.5	—	—	0.053	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.6	—	—	0.053	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.1	—	—	0.1	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.4	—	—	0.1	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.4	—	—	0.1	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.55	1.47	4.04	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.95	2.36	6.68	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.33	1.57	6.01	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.658	1.3	4.4	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.849	0.68	2.3	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	3.63	uS/cm	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	uS/cm	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	uS/cm	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	134	—	—	1	uS/cm	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	1	uS/cm	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	131	—	—	1	µg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	149	—	—	1	µg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	151	—	—	1	µg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	148	—	—	1	µg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	157	—	—	1	µg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.317	0.121	0.384	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0293	0.0643	0.223	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0233	0.138	0.492	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.203	0.15	0.49	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.093	0.13	0.49	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.01	—	—	0.133	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.97	—	—	0.133	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.14	—	—	0.133	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.2	—	—	0.1	mg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.72	—	—	0.1	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	176	—	—	3.4	mg/L	Y	—	J	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	121	—	—	3.4	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	J	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	2.4	mg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0378	—	—	0.033	mg/L	Y	J	J	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.5	—	—	0.18	mg/L	Y	U	UJ	11-2956	CAPA-11-22877	GELC
R-20 S1	904.6	04/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.0682	—	—	0.035	mg/L	Y	J	U	11-2116	CAPA-11-9309	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.548	—	—	0.33	mg/L	Y	J	J-	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.828	—	—	0.33	mg/L	Y	J	J	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.965	—	—	0.33	mg/L	Y	J	J	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.404	—	—	0.33	mg/L	Y	J	J	11-2956	CAPA-11-22877	GELC
R-20 S1	904.6	04/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.616	—	—	0.33	mg/L	Y	J	J	11-2116	CAPA-11-9309	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.09	—	—	0.017	mg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0423	—	—	0.017	mg/L	Y	J	U	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0702	—	—	0.017	mg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0576	—	—	0.015	mg/L	Y	—	U	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.03	—	—	0.015	mg/L	Y	J	U	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.225	0.594	2.037	—	pCi/L	Y	U	U	2015-228	CAPA-14-87182	ARSL
R-20 S1	904.6	04/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.87	0.66	2.13	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57731	ARSL
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.983	0.629	2.013	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49376	ARSL
R-20 S1	904.6	04/10/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.36	0.685	2.299	—	pCi/L	Y	U	U	2013-738	CAPA-13-29560	ARSL
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.7	0.729	2.494	—	pCi/L	Y	U	U	2013-118	CAPA-12-23795	ARSL
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.855	—	—	0.067	µg/L	Y	—	NQ	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.844	—	—	0.067	µg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.775	—	—	0.067	µg/L	Y	—	NQ	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.605	—	—	0.067	µg/L	Y	—	NQ	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.385	—	—	0.067	µg/L	Y	—	NQ	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.594	0.0385	0.0479	—	pCi/L	Y	—	J	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.402	0.0364	0.0386	—	pCi/L	Y	—	NQ	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.53	0.0415	0.0539	—	pCi/L	Y	—	J	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.555	0.061	0.1	—	pCi/L	Y	—	NQ	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.338	0.04	0.05	—	pCi/L	Y	—	NQ	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0174	0.00818	0.0417	—	pCi/L	Y	U	U	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0192	0.0115	0.0348	—	pCi/L	Y	U	U	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0227	0.0107	0.0391	—	pCi/L	Y	U	U	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0131	0.0076	0.049	—	pCi/L	Y	U	U	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0105	0.0061	0.04	—	pCi/L	Y	U	U	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.358	0.0293	0.0459	—	pCi/L	Y	—	NQ	2015-204	CAPA-14-87182	GELC
R-20 S1	904.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.271	0.0294	0.0242	—	pCi/L	Y	—	NQ	2014-2699	CAPA-14-49376	GELC
R-20 S1	904.6	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.26	0.0286	0.0366	—	pCi/L	Y	—	J	2013-111	CAPA-12-23795	GELC
R-20 S1	904.6	08/03/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.234	0.034	0.062	—	pCi/L	Y	—	NQ	10-3985	CAPA-10-24105	GELC
R-20 S1	904.6	03/13/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.162	0.024	0.036	—	pCi/L	Y	—	NQ	10-2453	CAPA-10-12817	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.66	—	—	1	µg/L	Y	J	J	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.72	—	—	1	µg/L	Y	—	NQ	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.77	—	—	1	µg/L	Y	J	J	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.5	—	—	1	µg/L	Y	J	J	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	2.95	—	—	1	µg/L	Y	J	U	11-2116	CAPA-11-9310	GELC
R-20 S1	904.6	10/31/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.27	—	—	3.3	µg/L	Y	J	J	2015-204	CAPA-14-87208	GELC
R-20 S1	904.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2699	CAPA-14-49402	GELC
R-20 S1	904.6	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-111	CAPA-12-23822	GELC
R-20 S1	904.6	07/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2956	CAPA-11-22878	GELC
R-20 S1	904.6	04/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2116	CAPA-11-9310	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	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	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.03	—	—	0.01	SU	Y	H	J-	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	J-	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.8	—	—	0.725	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.3	—	—	0.725	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	73.5	—	—	0.725	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.2	—	—	0.73	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.4	—	—	0.73	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0151	0.00649	0.0274	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00701	0.00744	0.0228	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0147	0.00694	0.0335	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00475	0.0067	0.037	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0055	0.0035	0.045	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00385	0.0026	0.037	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.105	—	—	0.017	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0827	—	—	0.017	mg/L	Y	—	J-	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0589	—	—	0.017	mg/L	Y	—	U	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0436	—	—	0.016	mg/L	Y	J	J	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	202	—	—	1	µg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	211	—	—	1	µg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	215	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	176	—	—	1	µg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	187	—	—	1	µg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	15.8	—	—	15	µg/L	Y	J	J	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	16.5	—	—	15	µg/L	Y	J	J	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	15.4	—	—	15	µg/L	Y	J	J	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.2	—	—	0.05	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.8	—	—	0.05	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.3	—	—	0.05	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.5	—	—	0.05	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.6	—	—	0.05	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.508	1.82	6.69	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.428	1.18	4.22	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.6	1.44	4.45	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.28	1.8	6.5	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.16	1.4	5	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.52	1.4	4.9	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.067	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.87	—	—	0.067	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.75	—	—	0.066	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.82	—	—	0.066	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.643	1.85	6.65	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.647	1.35	4.62	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.744	1.12	4.21	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.97	1.5	5	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.89	1.3	3.5	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.23	1.4	4.9	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.36	—	—	0.3	µg/L	Y	J	J	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	04/01/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.32	—	—	0.3	µg/L	Y	J	J	2014-3106	CAPA-14-57732	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.37	—	—	0.3	µg/L	Y	J	J	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.52	—	—	0.3	µg/L	Y	J	J	2013-702	CAPA-13-29561	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	Y	0.34	—	—	0.3	µg/L	Y	J	J	2013-703	CAPA-13-30294	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Dichloroethene[cis-1,2-]	156-59-2	N	1	—	—	0.3	µg/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.254	—	—	0.033	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.235	—	—	0.033	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.277	—	—	0.033	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.268	—	—	0.033	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.257	—	—	0.033	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.618	0.657	2.94	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.13	0.507	2.43	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.491	0.281	2.27	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	3.19	1.1	2.5	—	pCi/L	Y	—	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.05	0.73	2.3	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.798	0.65	2.2	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.65	0.837	2.69	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.53	0.842	2.67	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.44	0.568	1.71	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.49	0.75	2.3	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.53	1.1	3	—	pCi/L	Y	—	NQ	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	4.35	1	2.4	—	pCi/L	Y	—	NQ	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.2	—	—	0.453	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.7	—	—	0.453	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.4	—	—	0.453	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.2	—	—	0.45	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.6	—	—	0.45	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	30.3	—	—	30	µg/L	Y	J	J	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	53.2	—	—	30	µg/L	Y	J	J	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	55.9	—	—	30	µg/L	Y	J	J	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.73	—	—	0.11	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.74	—	—	0.11	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.86	—	—	0.11	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.43	—	—	0.11	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.61	—	—	0.11	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	74	—	—	2	µg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	79	—	—	2	µg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	81.2	—	—	2	µg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	65.3	—	—	2	µg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	72.7	—	—	2	µg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	µg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.71	—	—	0.165	µg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.75	—	—	0.165	µg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.4	—	—	0.17	µg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.34	—	—	0.17	µg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.81	3.07	10.3	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.7	2.25	7.46	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0147	2.37	8.71	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.3	2.6	9.9	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.4	2.7	9.4	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.65	2.6	9.1	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1	—	—	0.5	µg/L	Y	J	J	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.8	—	—	0.5	µg/L	Y	J	J	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.89	—	—	0.5	µg/L	Y	J	J	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.89	—	—	0.5	µg/L	Y	J	J	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.64	—	—	0.5	µg/L	Y	J	J	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.243	—	—	0.017	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.284	—	—	0.017	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.222	—	—	0.017	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.241	—	—	0.05	mg/L	Y	J	J	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.255	—	—	0.05	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.189	—	—	0.05	µg/L	Y	J	J	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.183	—	—	0.05	µg/L	Y	J	J	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.218	—	—	0.05	µg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.194	—	—	0.05	µg/L	Y	J	J	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	04/25/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.189	—	—	0.05	µg/L	Y	J	J	11-2171	CAPA-11-9312	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00264	0.0059	0.0392	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00717	0.00632	0.0244	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00252	0.00436	0.0286	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00304	0.014	0.053	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	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	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00614	0.0068	0.018	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00264	0.00698	0.0346	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00239	0.00632	0.0374	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00754	0.00665	0.034	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00913	0.0053	0.051	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.009	0.0055	0.033	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0071	0.03	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.22	—	—	0.05	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.16	—	—	0.05	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.47	—	—	0.05	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.22	—	—	0.05	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.26	—	—	0.05	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	43.5	27.9	72.6	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.5	21	46.9	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.86	18.2	66.9	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.59	21	76	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.4	19	73	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	21.1	16	58	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	72.5	—	—	0.053	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.3	—	—	0.053	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.1	—	—	0.053	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.4	—	—	0.053	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	78.4	—	—	0.053	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.6	—	—	0.1	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.4	—	—	0.1	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.71	1.85	6.33	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.344	0.957	3.62	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.27	1.36	5.96	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0873	1.3	5	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.23	1.1	4.2	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.546	1	3.1	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	3.63	uS/cm	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	144	—	—	1	uS/cm	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	144	—	—	1	uS/cm	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	130	—	—	1	uS/cm	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	132	—	—	1	uS/cm	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	211	—	—	1	µg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	228	—	—	1	µg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	239	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	200	—	—	1	µg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	212	—	—	1	µg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.417	0.154	0.486	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0698	0.114	0.466	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.419	0.156	0.465	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.373	0.16	0.48	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0172	0.11	0.43	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0438	0.14	0.47	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.58	—	—	0.133	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.53	—	—	0.133	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.62	—	—	0.133	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.75	—	—	0.1	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.7	—	—	0.1	mg/L	Y	—	J+	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0908	—	—	0.033	mg/L	Y	J	J	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0686	—	—	0.033	mg/L	Y	J	J	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	11-2921	CAPA-11-22881	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.07	—	—	0.33	mg/L	Y	—	NQ	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.06	—	—	0.33	mg/L	Y	—	NQ	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	3.21	—	—	0.33	mg/L	Y	—	NQ	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.68	—	—	0.33	mg/L	Y	—	NQ	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.43	—	—	0.33	mg/L	Y	—	NQ	11-2921	CAPA-11-22881	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.39	0.765	2.619	—	pCi/L	Y	U	U	2015-120	CAPA-14-87183	ARSL
R-20 S2	1147.1	04/01/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.63	0.654	2.246	—	pCi/L	Y	U	U	2014-3113	CAPA-14-57732	ARSL
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.011	0.64	2.044	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49377	ARSL
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.986	0.697	2.248	—	pCi/L	Y	U	U	2013-710	CAPA-13-29561	ARSL
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.569	0.715	2.445	—	pCi/L	Y	U	U	2013-127	CAPA-12-23796	ARSL
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.384	—	—	0.067	µg/L	Y	—	NQ	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.466	—	—	0.067	µg/L	Y	—	NQ	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.483	—	—	0.067	µg/L	Y	—	U	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.389	—	—	0.067	µg/L	Y	—	NQ	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.404	—	—	0.067	µg/L	Y	—	NQ	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.215	0.0273	0.0763	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.248	0.0258	0.0522	—	pCi/L	Y	—	NQ	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.213	0.0251	0.0469	—	pCi/L	Y	—	NQ	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.186	0.031	0.062	—	pCi/L	Y	—	NQ	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.213	0.03	0.087	—	pCi/L	Y	—	NQ	10-3926	CAPA-10-24110	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.272	0.039	0.11	—	pCi/L	Y	—	NQ	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00749	0.00749	0.0534	—	pCi/L	Y	U	U	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0191	0.0101	0.0329	—	pCi/L	Y	U	U	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00659	0.00807	0.034	—	pCi/L	Y	U	U	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00925	0.0066	0.046	—	pCi/L	Y	U	U	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00741	0.0074	0.041	—	pCi/L	Y	U	U	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00926	0.0066	0.051	—	pCi/L	Y	U	U	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.121	0.0201	0.0406	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.16	0.0213	0.0277	—	pCi/L	Y	—	NQ	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.176	0.0223	0.0319	—	pCi/L	Y	—	NQ	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.176	0.029	0.073	—	pCi/L	Y	—	NQ	12-201	CAPA-12-1136	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.18	0.027	0.053	—	pCi/L	Y	—	NQ	10-3926	CAPA-10-24110	GELC
R-20 S2	1147.1	07/30/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.116	0.023	0.066	—	pCi/L	Y	—	NQ	10-3926	CAPA-10-24112	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.71	—	—	1	µg/L	Y	J	J	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.89	—	—	1	µg/L	Y	J	J	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.07	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.46	—	—	1	µg/L	Y	J	J	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.51	—	—	1	µg/L	Y	J	J	11-2921	CAPA-11-22882	GELC
R-20 S2	1147.1	10/20/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.69	—	—	0.3	µg/L	Y	J	J	2015-113	CAPA-14-87183	GELC
R-20 S2	1147.1	04/01/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.75	—	—	0.3	µg/L	Y	J	J	2014-3106	CAPA-14-57732	GELC
R-20 S2	1147.1	12/06/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.62	—	—	0.3	µg/L	Y	J	J	2014-2635	CAPA-14-49377	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	1	—	—	0.3	µg/L	Y	J	J	2013-702	CAPA-13-29561	GELC
R-20 S2	1147.1	04/08/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.71	—	—	0.3	µg/L	Y	J	J	2013-703	CAPA-13-30294	GELC
R-20 S2	1147.1	10/17/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	Xylene[m+p]	Y	0.5	—	—	0.3	µg/L	Y	J	J	2013-157	CAPA-12-23796	GELC
R-20 S2	1147.1	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.06	—	—	3.3	µg/L	Y	J	J	2015-113	CAPA-14-87209	GELC
R-20 S2	1147.1	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2635	CAPA-14-49403	GELC
R-20 S2	1147.1	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-157	CAPA-12-23823	GELC
R-20 S2	1147.1	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-201	CAPA-12-1138	GELC
R-20 S2	1147.1	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2921	CAPA-11-22882	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	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	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	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-	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	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-	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.2	—	—	0.725	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2	—	—	0.725	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.5	—	—	0.725	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56	—	—	0.73	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61	—	—	0.73	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00522	0.00639	0.0544	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0126	0.00696	0.0234	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00772	0.00912	0.0446	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00522	0.0083	0.041	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000135	0.0054	0.035	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.168	—	—	0.017	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0194	—	—	0.016	mg/L	Y	J	J	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	14	—	—	1	µg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.1	—	—	1	µg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.9	—	—	1	µg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.4	—	—	1	µg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.2	—	—	1	µg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.4	—	—	0.05	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.1	—	—	0.05	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.1	—	—	0.05	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.2	—	—	0.05	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.3	1.54	5.15	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.35	1.95	4.17	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.991	1.47	5.46	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.575	1.4	4.7	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.12	1.6	5	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.98	—	—	0.067	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.92	—	—	0.067	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.067	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.82	—	—	0.066	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.82	—	—	0.066	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.61	—	—	2	µg/L	Y	J	J	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.29	—	—	2	µg/L	Y	J	U	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.24	—	—	2	µg/L	Y	J	J	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	6.36	—	—	2	µg/L	Y	J	J	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.04	1.62	6.05	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.656	1.08	4.25	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.69	1.37	5.15	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.57	1.8	5.7	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.38	1.4	3.9	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.175	—	—	0.033	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.213	—	—	0.033	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.219	—	—	0.033	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.242	—	—	0.033	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.249	—	—	0.033	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0031	0.461	1.65	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.02	0.664	2.9	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.64	0.769	2.08	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.214	0.37	2.2	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.35	0.85	2.7	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.124	0.517	1.74	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.74	0.831	2.64	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.31	0.762	2.32	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.03	0.92	2.5	—	pCi/L	Y	—	NQ	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.124	0.83	2.9	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.1	—	—	0.453	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.4	—	—	0.453	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.8	—	—	0.453	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.9	—	—	0.45	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40	—	—	0.45	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.06	—	—	0.11	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.84	—	—	0.11	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.27	—	—	0.11	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.25	—	—	0.11	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.92	—	—	0.11	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	3.38	—	—	2	µg/L	Y	J	J	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	7.13	—	—	2	µg/L	Y	J	J	2014-2642	CAMO-14-49334	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	4.9	—	—	2	µg/L	Y	J	U	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.16	—	—	2	µg/L	Y	J	J	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.09	—	—	2	µg/L	Y	J	J	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.25	—	—	0.165	µg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.4	—	—	0.165	µg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.35	—	—	0.165	µg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.25	—	—	0.17	µg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.19	—	—	0.17	µg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.735	2.69	9.55	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.415	2.27	7.95	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.551	2.76	9.91	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.906	2.4	8.8	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.44	2.9	9.9	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.39	—	—	0.017	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.399	—	—	0.017	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.362	—	—	0.017	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.339	—	—	0.05	mg/L	Y	—	J-	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.374	—	—	0.1	mg/L	Y	J	J	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.274	—	—	0.05	µg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.257	—	—	0.05	µg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.275	—	—	0.05	µg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.277	—	—	0.05	µg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.281	—	—	0.05	µg/L	Y	—	NQ	11-2109	CAPA-11-9316	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0136	0.015	0.0436	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00223	0.00386	0.0227	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00683	0.0389	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00767	0.0057	0.029	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00665	0.0067	0.03	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00487	0.0238	0.0652	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0134	0.00704	0.0348	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0137	0.00966	0.0462	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0051	0.04	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0133	0.0074	0.048	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.68	—	—	0.05	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.46	—	—	0.05	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.71	—	—	0.05	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.77	—	—	0.05	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.74	—	—	0.05	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	9.48	19.7	28.5	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.96	15.3	53.8	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.4	17.9	68.6	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-24.2	17	58	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	30.7	17	64	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.5	—	—	0.053	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.3	—	—	0.053	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	77.8	—	—	0.053	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.2	—	—	0.053	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.6	—	—	0.053	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.51	—	—	0.1	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.79	—	—	0.1	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.83	—	—	0.1	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.46	—	—	0.1	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.14	0.967	3.29	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.53	1.02	3.44	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.26	1.27	4.33	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.691	1.3	4.7	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.33	1.6	4.7	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	115	—	—	3.63	uS/cm	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	uS/cm	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	1	uS/cm	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	uS/cm	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	1	uS/cm	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46	—	—	1	µg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.5	—	—	1	µg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.4	—	—	1	µg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.8	—	—	1	µg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.4	—	—	1	µg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0665	0.14	0.486	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.266	0.0979	0.482	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.024	0.128	0.438	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0809	0.14	0.5	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0258	0.13	0.49	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.99	—	—	0.133	mg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.96	—	—	0.133	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.88	—	—	0.133	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.05	—	—	0.1	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.9	—	—	0.1	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	98.6	—	—	3.4	mg/L	Y	—	J	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	103	—	—	3.4	mg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	104	—	—	3.4	mg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.428	0.824	2.832	—	pCi/L	Y	U	U	2015-184	CAMO-14-87134	ARSL
R-21	888.8	04/11/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.791	0.527	1.804	—	pCi/L	Y	U	U	2014-3212	CAMO-14-57540	ARSL
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.303	0.669	2.086	—	pCi/L	Y	U	U	2014-2650	CAMO-14-49327	ARSL
R-21	888.8	04/22/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.795	0.688	2.252	—	pCi/L	Y	U	U	2013-764	CAMO-13-29625	ARSL
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.02	0.725	2.462	—	pCi/L	Y	U	U	2013-117	CAMO-12-23858	ARSL
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.315	—	—	0.067	µg/L	Y	—	NQ	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.32	—	—	0.067	µg/L	Y	—	NQ	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.347	—	—	0.067	µg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.327	—	—	0.067	µg/L	Y	—	NQ	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.339	—	—	0.067	µg/L	Y	—	NQ	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.267	0.0265	0.0493	—	pCi/L	Y	—	NQ	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.264	0.026	0.051	—	pCi/L	Y	—	J	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.168	0.0241	0.045	—	pCi/L	Y	—	NQ	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.154	0.023	0.061	—	pCi/L	Y	—	NQ	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.212	0.025	0.056	—	pCi/L	Y	—	NQ	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0208	0.0107	0.0429	—	pCi/L	Y	U	U	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00933	0.00695	0.0321	—	pCi/L	Y	U	U	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0158	0.0105	0.0326	—	pCi/L	Y	U	U	2013-88	CAMO-12-23858	GELC
R-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0118	0.006	0.032	—	pCi/L	Y	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0166	0.0072	0.026	—	pCi/L	Y	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.12	0.0174	0.0472	—	pCi/L	Y	—	NQ	2015-150	CAMO-14-87134	GELC
R-21	888.8	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.0176	0.027	—	pCi/L	Y	—	J	2014-2642	CAMO-14-49327	GELC
R-21	888.8	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.12	0.0183	0.0306	—	pCi/L	Y	—	NQ	2013-88	CAMO-12-23858	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-21	888.8	11/03/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.105	0.019	0.027	—	pCi/L	Y	—	NQ	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.127	0.018	0.034	—	pCi/L	Y	—	NQ	10-4113	CAPA-10-24115	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.85	—	—	1	µg/L	Y	J	J	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.93	—	—	1	µg/L	Y	J	J	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.35	—	—	1	µg/L	Y	—	NQ	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.67	—	—	1	µg/L	Y	J	J	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.96	—	—	1	µg/L	Y	J	J	11-2904	CAPA-11-22883	GELC
R-21	888.8	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.33	—	—	3.3	µg/L	Y	J	J	2015-150	CAMO-14-87141	GELC
R-21	888.8	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	3.38	—	—	3.3	µg/L	Y	J	U	2014-2642	CAMO-14-49334	GELC
R-21	888.8	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.72	—	—	3.3	µg/L	Y	J	J	2013-88	CAMO-12-23865	GELC
R-21	888.8	11/03/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.99	—	—	3.3	µg/L	Y	J	J	11-2904	CAPA-11-22883	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.69	—	—	0.01	SU	Y	H	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	J-	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	J-	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.3	—	—	0.725	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.7	—	—	0.725	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.8	—	—	0.725	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.9	—	—	0.73	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.8	—	—	0.73	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0106	0.03	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00823	0.00651	0.0268	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00842	0.0122	0.0383	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00207	0.0036	0.032	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00243	0.0044	0.039	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00772	0.0035	0.032	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	20.1	—	—	1	µg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.2	—	—	1	µg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.7	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.6	—	—	1	µg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.2	—	—	1	µg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	Y	0.00771	—	—	0.00684	µg/L	N	J	J	2015-105	CAPA-14-87184	GELC
R-23	816	10/17/14	WG	UF	RE	REG	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	Y	0.0377	—	—	0.0069	µg/L	Y	—	J-	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	SVOC	SW-846:8310	Benzo(k)fluoranthene	207-08-9	N	0.0255	—	—	0.00816	µg/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1.02	—	—	0.306	µg/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1	—	—	0.3	µg/L	Y	U	U	12-186	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzo(k)fluoranthene	207-08-9	N	1.06	—	—	0.21	µg/L	Y	U	U	11-2911	CAPA-11-22870	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	16.2	—	—	0.05	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.4	—	—	0.05	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.8	—	—	0.05	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.5	—	—	0.05	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.8	—	—	0.05	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.853	1.68	5.98	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.83	1.87	5.39	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.264	1.61	6.04	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.65	1.8	7.1	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0332	1.2	4	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.96	1.6	5.1	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.79	—	—	0.067	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.87	—	—	0.067	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.29	—	—	0.067	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.43	—	—	0.066	mg/L	Y	—	J-	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.56	—	—	0.066	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.39	—	—	2	µg/L	Y	J	J	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.43	—	—	2	µg/L	Y	J	J	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.97	—	—	2	µg/L	Y	J	U	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	7.38	—	—	2	µg/L	Y	J	U	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.98	1.66	5.1	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.369	1.99	6.72	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.83	1.71	7.77	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.11	1.7	5.7	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.764	1.4	4.1	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0605	1.5	4.9	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.343	—	—	0.033	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.366	—	—	0.033	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.173	—	—	0.033	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.365	—	—	0.033	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.354	—	—	0.033	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.688	0.589	2.82	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.15	0.653	2.94	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.183	0.533	2.65	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.155	0.42	2.1	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.437	0.57	2.3	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.557	0.52	1.9	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	17.7	1.57	2.27	—	pCi/L	Y	—	NQ	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.4	0.939	2.65	—	pCi/L	Y	—	NQ	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.82	0.713	2.15	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.489	0.6	2.1	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.19	0.9	2.7	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.02	0.85	2.9	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	57.3	—	—	0.453	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.9	—	—	0.453	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	63.1	—	—	0.453	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	57.3	—	—	0.45	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	58.7	—	—	0.45	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.07	—	—	0.11	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.72	—	—	0.11	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.54	—	—	0.11	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.92	—	—	0.11	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.08	—	—	0.11	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.78	—	—	0.165	µg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.66	—	—	0.165	µg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.62	—	—	0.165	µg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.69	—	—	0.17	µg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.52	—	—	0.17	µg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.00726	2.94	10.6	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.435	3.07	10.8	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.511	2.89	10.2	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.93	3.3	12	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.36	2.5	7.5	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.616	3.4	11	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.66	—	—	0.085	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.28	—	—	0.085	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.2	—	—	0.085	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.25	—	—	0.05	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.24	—	—	0.05	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.448	—	—	0.05	µg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.43	—	—	0.05	µg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/26/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.502	—	—	0.05	µg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.431	—	—	0.05	µg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.449	—	—	0.05	µg/L	Y	—	NQ	11-2091	CAPA-11-9586	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00262	0.00454	0.039	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00442	0.00625	0.0225	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00383	0.00855	0.0435	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00266	0.008	0.046	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.001	0.004	0.022	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00669	0.0095	0.03	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0157	0.00829	0.0344	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00442	0.00698	0.0346	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00765	0.00937	0.0517	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0038	0.045	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0566	0.014	0.036	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.01	0.0058	0.049	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.72	—	—	0.05	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.77	—	—	0.05	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.9	—	—	0.05	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.76	—	—	0.05	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.93	—	—	0.05	mg/L	Y	—	J	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22.8	17.5	70	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.68	19.6	77.7	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.2	24.4	93.2	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-10.4	21	74	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.76	15	52	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	29.2	20	78	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	61.2	—	—	0.053	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	60.4	—	—	0.053	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.9	—	—	0.053	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	62.6	—	—	0.053	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	64.7	—	—	0.053	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.2	—	—	0.1	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.53	1.73	7.13	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.56	1.84	7.75	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.915	1.78	6.53	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.92	1.5	3.9	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.39	1.2	2.8	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	2.15	1.7	6.3	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	160	—	—	3.63	uS/cm	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	167	—	—	1	uS/cm	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	168	—	—	1	uS/cm	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	164	—	—	1	uS/cm	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	161	—	—	1	uS/cm	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	81.3	—	—	1	µg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	77.4	—	—	1	µg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	86.7	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.9	—	—	1	µg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	82.5	—	—	1	µg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	1.21	0.187	0.468	—	pCi/L	Y	—	NQ	2015-105	CAPA-14-87184	GELC
R-23	816	10/17/14	WG	UF	RE	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	0.9	0.179	0.481	—	pCi/L	Y	—	J	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.421	0.152	0.479	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.119	0.139	0.496	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0278	0.13	0.47	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.139	0.11	0.36	—	pCi/L	Y	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.161	0.14	0.49	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	6.33	—	—	0.133	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.85	—	—	0.133	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.64	—	—	0.133	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.13	—	—	0.1	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.05	—	—	0.1	mg/L	Y	—	J+	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	3.4	mg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	3.4	mg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0343	—	—	0.033	mg/L	Y	J	J	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-186	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	11-2911	CAPA-11-22870	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-186	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	11-2911	CAPA-11-22870	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.373	—	—	0.33	mg/L	Y	J	J	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.504	—	—	0.33	mg/L	Y	J	J	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.886	—	—	0.33	mg/L	Y	J	J	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.39	—	—	0.33	mg/L	Y	—	NQ	12-186	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	2.38	—	—	0.33	mg/L	Y	—	NQ	11-2911	CAPA-11-22870	GELC
R-23	816	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0182	—	—	0.017	mg/L	Y	J	J	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0243	—	—	0.017	mg/L	Y	J	J	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.0689	—	—	0.017	mg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	N	0.0691	—	—	0.015	mg/L	Y	—	U	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:365.4	Total Phosphate as Phosphorus	PO4-P	Y	0.137	—	—	0.015	mg/L	Y	—	J	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.852	0.76	2.608	—	pCi/L	Y	U	U	2015-120	CAPA-14-87184	ARSL
R-23	816	07/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.366	0.613	1.871	—	pCi/L	Y	U	U	2014-3873	CAPA-14-81480	ARSL
R-23	816	04/04/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.06	0.58	1.97	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57733	ARSL
R-23	816	01/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.667	0.636	2.091	—	pCi/L	Y	U	U	2014-2748	CAPA-14-49709	ARSL
R-23	816	01/07/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.972	0.572	1.954	—	pCi/L	Y	U	U	2014-2748	CAPA-14-49702	ARSL
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.502	0.678	2.07	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49378	ARSL
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.406	—	—	0.067	µg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.389	—	—	0.067	µg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.434	—	—	0.067	µg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.443	—	—	0.067	µg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.479	—	—	0.067	µg/L	Y	—	NQ	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.312	0.0359	0.0866	—	pCi/L	Y	—	NQ	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.387	0.0326	0.0548	—	pCi/L	Y	—	J	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.312	0.0271	0.0357	—	pCi/L	Y	—	J	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.342	0.044	0.06	—	pCi/L	Y	—	NQ	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.322	0.033	0.053	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.358	0.036	0.052	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24120	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23	816	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0285	0.0137	0.061	—	pCi/L	Y	U	U	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0167	0.00884	0.0345	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00251	0.00561	0.0259	—	pCi/L	Y	U	U	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00893	0.0063	0.044	—	pCi/L	Y	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0314	0.0087	0.025	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0176	0.0063	0.024	—	pCi/L	Y	U	U	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.206	0.0291	0.0465	—	pCi/L	Y	—	NQ	2015-105	CAPA-14-87184	GELC
R-23	816	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.154	0.0208	0.029	—	pCi/L	Y	—	J	2014-2618	CAPA-14-49378	GELC
R-23	816	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.168	0.0191	0.0243	—	pCi/L	Y	—	J	2013-70	CAPA-12-23797	GELC
R-23	816	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.162	0.027	0.071	—	pCi/L	Y	—	NQ	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.192	0.023	0.032	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24119	GELC
R-23	816	08/12/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.164	0.021	0.031	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24120	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.75	—	—	1	µg/L	Y	—	NQ	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.07	—	—	1	µg/L	Y	—	NQ	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.69	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.36	—	—	1	µg/L	Y	—	NQ	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.36	—	—	1	µg/L	Y	—	J	11-2911	CAPA-11-22868	GELC
R-23	816	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.8	—	—	3.3	µg/L	Y	J	J	2015-105	CAPA-14-87210	GELC
R-23	816	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2618	CAPA-14-49404	GELC
R-23	816	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-70	CAPA-12-23824	GELC
R-23	816	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2911	CAPA-11-22868	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.04	—	—	0.01	SU	Y	H	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.72	—	—	0.01	SU	Y	H	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.9	—	—	0.01	SU	Y	H	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.87	—	—	0.01	SU	Y	H	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.79	—	—	0.01	SU	Y	H	J-	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.83	—	—	0.01	SU	Y	H	J-	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	105	—	—	0.725	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	97.3	—	—	0.725	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	108	—	—	0.725	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	108	—	—	0.725	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	101	—	—	0.73	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	101	—	—	0.73	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-4.26E-10	0.00511	0.0324	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00439	0.00621	0.0286	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00232	0.0052	0.0317	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00937	0.00574	0.032	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00223	0.0039	0.035	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0033	0.0043	0.062	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0498	—	—	0.017	mg/L	Y	J	J	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0213	—	—	0.017	mg/L	Y	J	U	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0727	—	—	0.017	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0322	—	—	0.016	mg/L	Y	J	J+	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.105	—	—	0.016	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.61	—	—	1.7	µg/L	Y	J	J	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.93	—	—	1.7	µg/L	Y	J	J	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	63.6	—	—	1	µg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	69.6	—	—	1	µg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	57.2	—	—	1	µg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	56.5	—	—	1	µg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	55.6	—	—	1	µg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	54.1	—	—	1	µg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	15.4	—	—	15	µg/L	Y	J	J	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	16.2	—	—	15	µg/L	Y	J	J	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	15.9	—	—	15	µg/L	Y	J	J	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	Y	16.2	—	—	15	µg/L	Y	J	J	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.101	—	—	0.067	mg/L	Y	J	J	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.111	—	—	0.067	mg/L	Y	J	J	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0954	—	—	0.067	mg/L	Y	J	J	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.086	—	—	0.067	mg/L	Y	J	J	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.105	—	—	0.066	mg/L	Y	J	J-	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0959	—	—	0.066	mg/L	Y	J	J	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	31.5	—	—	0.05	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	33.8	—	—	0.05	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	28.1	—	—	0.05	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	28.3	—	—	0.05	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	26.9	—	—	0.05	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	28.5	—	—	0.05	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.083	1.3	4.82	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.15	1.66	4.46	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.8	1.33	3.89	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.08	1.21	4.12	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.896	1.4	5	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.211	1.5	4.9	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	21.1	—	—	0.335	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	37.2	—	—	0.67	mg/L	N	—	R	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	12/03/13	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	36.8	—	—	0.67	mg/L	Y	H	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.3	—	—	0.067	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	17.5	—	—	0.067	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	15.8	—	—	0.066	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	16.2	—	—	0.066	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	4.1	1.84	7.78	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.96	1.37	4.93	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.309	0.964	3.64	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.99	1.32	5.28	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.9	1.3	5.2	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.9	1.9	5.1	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.2	—	—	0.033	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.195	—	—	0.033	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.23	—	—	0.033	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.222	—	—	0.033	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.204	—	—	0.033	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.199	—	—	0.033	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.457	0.673	2.52	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.254	0.749	2.94	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.16	0.783	2.59	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	2.93	1.01	2.24	—	pCi/L	Y	—	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.49	0.8	2.3	—	pCi/L	Y	U	UJ	12-283	CAPA-12-1113	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.14	0.71	2.1	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.96	1.11	2.7	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.47	0.56	1.69	—	pCi/L	Y	—	NQ	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.24	0.897	2.17	—	pCi/L	Y	—	NQ	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	4	0.904	2.31	—	pCi/L	Y	—	NQ	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.78	0.8	2.1	—	pCi/L	Y	—	NQ	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.72	1	2.9	—	pCi/L	Y	—	NQ	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	123	—	—	0.453	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	131	—	—	0.453	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	110	—	—	0.453	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	111	—	—	0.453	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	106	—	—	0.45	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	109	—	—	0.45	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	10.8	—	—	0.11	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	11.3	—	—	0.11	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	9.67	—	—	0.11	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	9.81	—	—	0.11	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	9.47	—	—	0.11	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	9.25	—	—	0.11	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	4.02	—	—	2	µg/L	Y	J	J	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.27	—	—	0.165	µg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.43	—	—	0.165	µg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.32	—	—	0.165	µg/L	Y	—	U	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.4	—	—	0.165	µg/L	Y	—	U	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.1	—	—	0.17	µg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.17	µg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.98	3.35	12.2	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	9.19	2.77	10.3	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.35	1.87	6.73	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.96	2.41	7.91	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.37	2.9	11	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.16	3.5	12	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	4.82	—	—	0.5	µg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2.3	—	—	0.5	µg/L	Y	—	U	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.43	—	—	0.5	µg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.45	—	—	0.5	µg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.85	—	—	0.5	µg/L	Y	J	J	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.596	—	—	0.5	µg/L	Y	J	J	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.717	—	—	0.017	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.82	—	—	0.085	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.58	—	—	0.085	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.6	—	—	0.085	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.59	—	—	0.05	mg/L	Y	H	J-	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.58	—	—	0.05	mg/L	Y	—	J-	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.274	—	—	0.05	µg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.333	—	—	0.05	µg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.296	—	—	0.05	µg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.31	—	—	0.05	µg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S1	400.3	04/28/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.321	—	—	0.05	µg/L	Y	—	NQ	11-2231	CAPA-11-9570	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00248	0.00961	0.0369	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00327	0.00566	0.0333	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00256	0.00444	0.0292	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00486	0.00486	0.0276	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0113	0.01	0.026	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-4.69E-10	0.0039	0.022	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0149	0.0149	0.0326	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.008	0.0511	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00628	0.0347	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00243	0.00543	0.0328	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00226	0.0032	0.036	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00197	0.0059	0.032	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	3.84	—	—	0.05	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.92	—	—	0.05	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.65	—	—	0.05	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	3.59	—	—	0.05	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.59	—	—	0.05	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	3.66	—	—	0.05	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	7.57	20.5	82.6	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-11.9	13.9	46.6	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-7.12	12.6	45.5	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	18.6	17.2	37.9	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	34.2	19	79	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	31.5	22	81	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	48.5	—	—	0.053	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	31.5	22	81	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	48.5	—	—	0.053	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	45.7	—	—	0.053	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	52.2	—	—	0.053	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	52.6	—	—	0.053	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	51.8	—	—	0.053	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	53.1	—	—	0.053	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	14.9	—	—	0.1	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.6	—	—	0.1	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.3	—	—	0.1	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.4	—	—	0.1	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.2	—	—	0.1	mg/L	Y	N	J-	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.5	—	—	0.1	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.06	1.5	5.29	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.06	1.29	4.46	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.922	0.933	3.67	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.16	1.27	4.83	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.27	1.4	4	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.296	1.8	6	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	305	—	—	3.63	uS/cm	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	361	—	—	1	uS/cm	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	293	—	—	1	uS/cm	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	303	—	—	1	uS/cm	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	288	—	—	1	uS/cm	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	271	—	—	1	uS/cm	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	189	—	—	1	µg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	201	—	—	1	µg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	172	—	—	1	µg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	172	—	—	1	µg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	161	—	—	1	µg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	164	—	—	1	µg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.211	0.143	0.476	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0267	0.136	0.536	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0678	0.126	0.487	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.249	0.149	0.491	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0593	0.13	0.48	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.431	0.15	0.45	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	18.7	—	—	0.133	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	19	—	—	1.33	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.7	—	—	0.133	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	15.8	—	—	0.133	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	13.3	—	—	0.1	mg/L	Y	—	J+	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.1	—	—	0.1	mg/L	Y	—	J+	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	183	—	—	3.4	mg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	251	—	—	3.4	mg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	179	—	—	3.4	mg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	206	—	—	3.4	mg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	197	—	—	3.4	mg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	3.4	mg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0485	—	—	0.033	mg/L	Y	J	J	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	UJ	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	07/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	11-2928	CAPA-11-22843	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	07/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	11-2928	CAPA-11-22843	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.439	—	—	0.33	mg/L	Y	J	J	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.18	—	—	0.33	mg/L	Y	—	NQ	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.961	—	—	0.33	mg/L	Y	J	J	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.941	—	—	0.33	mg/L	Y	J	J	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.753	—	—	0.33	mg/L	Y	J	J	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	07/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.523	—	—	0.33	mg/L	Y	J	J	11-2928	CAPA-11-22843	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	32.8	49.7	168	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	1.05	53.5	194	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	35.8	33.7	115	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	EPA:906.0	Tritium	H-3	N	46.7	34.3	115	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	EPA:906.0	Tritium	H-3	N	78.9	54	180	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	04/28/11	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	65.5914	9.9498	1.9642	—	pCi/L	Y	—	NQ	11-2264	CAPA-11-9568	ARSL
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.1	—	—	0.067	µg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.69	—	—	0.067	µg/L	Y	—	NQ	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.958	—	—	0.067	µg/L	Y	—	NQ	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.98	—	—	0.067	µg/L	Y	—	NQ	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.877	—	—	0.067	µg/L	Y	—	NQ	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.737	—	—	0.067	µg/L	Y	—	NQ	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.668	0.0442	0.07	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.478	0.0532	0.101	—	pCi/L	Y	—	J	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.563	0.0405	0.0483	—	pCi/L	Y	—	J	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.544	0.0414	0.0508	—	pCi/L	Y	—	NQ	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.497	0.05	0.063	—	pCi/L	Y	—	NQ	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.371	0.044	0.088	—	pCi/L	Y	—	NQ	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00688	0.00842	0.049	—	pCi/L	Y	U	U	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00616	0.0163	0.0635	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0136	0.00831	0.035	—	pCi/L	Y	U	U	2013-56	CAPA-12-23798	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00357	0.00799	0.0369	—	pCi/L	Y	U	U	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00308	0.0069	0.033	—	pCi/L	Y	U	U	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.015	0.011	0.042	—	pCi/L	Y	U	U	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.342	0.0314	0.0373	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87185	GELC
R-23i S1	400.3	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.344	0.0437	0.0535	—	pCi/L	Y	—	J	2014-2592	CAPA-14-49379	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.294	0.0289	0.0328	—	pCi/L	Y	—	J	2013-56	CAPA-12-23798	GELC
R-23i S1	400.3	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.367	0.0331	0.0346	—	pCi/L	Y	—	NQ	2013-56	CAPA-12-23762	GELC
R-23i S1	400.3	11/04/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.287	0.034	0.028	—	pCi/L	Y	—	NQ	12-283	CAPA-12-1113	GELC
R-23i S1	400.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.219	0.031	0.053	—	pCi/L	Y	—	NQ	10-4078	CAPA-10-24089	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	2.91	—	—	1	µg/L	Y	J	J	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.71	—	—	1	µg/L	Y	J	J	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	2.97	—	—	1	µg/L	Y	J	U	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	N	4.33	—	—	1	µg/L	Y	J	U	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.47	—	—	1	µg/L	Y	J	J	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.85	—	—	1	µg/L	Y	J	J	11-2928	CAPA-11-22841	GELC
R-23i S1	400.3	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	10.9	—	—	3.3	µg/L	Y	—	NQ	2015-113	CAPA-14-87211	GELC
R-23i S1	400.3	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.96	—	—	3.3	µg/L	Y	J	J	2014-2592	CAPA-14-49405	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.34	—	—	3.3	µg/L	Y	J	J	2013-56	CAPA-12-23825	GELC
R-23i S1	400.3	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.01	—	—	3.3	µg/L	Y	J	J	2013-56	CAPA-12-23765	GELC
R-23i S1	400.3	11/04/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-283	CAPA-12-1114	GELC
R-23i S1	400.3	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2928	CAPA-11-22841	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.2	—	—	0.01	SU	Y	H	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	J-	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.16	—	—	0.01	SU	Y	H	J-	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.7	—	—	0.725	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	78.8	—	—	0.725	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	81	—	—	0.725	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.3	—	—	0.73	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	80.2	—	—	0.73	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.277	0.147	0.723	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00236	0.00851	0.0307	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00501	0.0342	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0028	0.032	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00928	0.0048	0.037	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	7.8	—	—	1	µg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.77	—	—	1	µg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.71	—	—	1	µg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.77	—	—	1	µg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.99	—	—	1	µg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0756	—	—	0.067	mg/L	Y	J	J	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0707	—	—	0.067	mg/L	Y	J	J	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.066	mg/L	Y	U	U	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0976	—	—	0.066	mg/L	Y	J	J	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.5	—	—	0.05	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.6	—	—	0.05	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.2	—	—	0.05	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.9	—	—	0.05	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.3	—	—	0.05	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-4.4	1.71	5.8	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.32	1.58	5.54	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.972	1.28	4.94	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.669	1.4	5.3	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.342	0.97	3.2	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	9.16	—	—	0.067	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.63	—	—	0.067	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.47	—	—	0.067	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.6	—	—	0.066	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.97	—	—	0.066	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.132	1.31	5.18	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.23	1.53	5.28	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.483	1.47	5.46	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.07	1.5	6.1	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.14	0.97	3.6	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.2	—	—	0.033	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.207	—	—	0.033	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.208	—	—	0.033	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.26	—	—	0.033	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.205	—	—	0.033	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.174	0.677	2.83	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.19	0.723	2.97	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0000693	0.384	2.05	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.31	0.78	2.4	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.615	0.61	2.3	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.82	0.515	1.65	—	pCi/L	Y	—	NQ	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.6	0.455	1.46	—	pCi/L	Y	—	NQ	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.15	0.792	2.2	—	pCi/L	Y	—	NQ	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.64	1.1	2.2	—	pCi/L	Y	—	NQ	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.17	0.9	2.8	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.6	—	—	0.453	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.4	—	—	0.453	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	77.7	—	—	0.453	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	78	—	—	0.45	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	80.1	—	—	0.45	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.69	—	—	0.11	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.6	—	—	0.11	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6	—	—	0.11	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.66	—	—	0.11	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.89	—	—	0.11	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.58	—	—	0.165	µg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.91	—	—	0.165	µg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.54	—	—	0.165	µg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.69	—	—	0.17	µg/L	Y	—	J	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.62	—	—	0.17	µg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.38	2.98	10	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.96	3.31	11.4	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.05	2.72	9.48	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.755	3.1	11	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.511	2	6.7	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.942	—	—	0.017	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.08	—	—	0.085	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.865	—	—	0.085	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.851	—	—	0.1	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.89	—	—	0.05	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S2	470.2	10/29/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.268	—	—	0.05	µg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.254	—	—	0.05	µg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.253	—	—	0.05	µg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.249	—	—	0.05	µg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	05/03/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.241	—	—	0.05	µg/L	Y	—	NQ	11-2284	CAPA-11-9573	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0217	0.0486	0.291	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	1.35E-09	0.00639	0.0206	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00575	0.0267	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0101	0.0049	0.035	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00207	0.0021	0.018	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.109	0.0575	0.43	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00202	0.00833	0.0316	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00704	0.00525	0.0317	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00605	0.0053	0.034	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0062	0.0046	0.03	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.62	—	—	0.05	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.43	—	—	0.05	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.65	—	—	0.05	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.59	—	—	0.05	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.58	—	—	0.05	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.34	18.5	68.4	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	15.8	21.8	67.4	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.639	14.7	61.2	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	18.4	17	45	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	49.7	12	50	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	42.3	—	—	0.053	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	49.7	12	50	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	42.3	—	—	0.053	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	41.6	—	—	0.053	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	45.9	—	—	0.053	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	43.8	—	—	0.053	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	45.4	—	—	0.053	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.9	—	—	0.1	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.2	—	—	0.1	mg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.1	—	—	0.1	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.48	1.6	5.02	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.947	1.48	5.88	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.31	1.3	4.62	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.17	1.5	5.1	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.11	1.1	3.8	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	194	—	—	3.63	uS/cm	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	204	—	—	1	uS/cm	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	207	—	—	1	uS/cm	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	203	—	—	1	uS/cm	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	199	—	—	1	uS/cm	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	92.3	—	—	1	µg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	92.2	—	—	1	µg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	98.2	—	—	1	µg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	97.1	—	—	1	µg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	98.4	—	—	1	µg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0204	0.0568	0.196	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.117	0.128	0.495	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0118	0.105	0.362	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0162	0.14	0.5	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.135	0.14	0.5	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.4	—	—	0.133	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.66	—	—	0.133	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.27	—	—	0.133	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.57	—	—	0.1	mg/L	Y	—	J+	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.38	—	—	0.1	mg/L	Y	—	NQ	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	3.4	mg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	J	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	3.4	mg/L	Y	—	J	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.558	—	—	0.33	mg/L	Y	J	J-	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.411	—	—	0.33	mg/L	Y	J	J	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.782	—	—	0.33	mg/L	Y	J	J	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.502	—	—	0.33	mg/L	Y	J	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	07/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.479	—	—	0.33	mg/L	Y	J	J	11-2932	CAPA-11-22677	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	22.491	3.586	2.81	—	pCi/L	Y	—	NQ	2015-196	CAPA-14-87186	ARSL
R-23i S2	470.2	04/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	15.454	2.475	2.056	—	pCi/L	Y	—	J-	2014-3281	CAPA-14-57735	ARSL
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	11.055	1.942	2.878	—	pCi/L	Y	—	U	2014-2606	CAPA-14-49380	ARSL
R-23i S2	470.2	04/22/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	16.617	2.669	2.238	—	pCi/L	Y	—	NQ	2013-765	CAPA-13-29564	ARSL
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	16.208	2.613	2.369	—	pCi/L	Y	—	J-	2013-131	CAPA-12-23799	ARSL
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.72	—	—	0.067	µg/L	Y	—	J	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.52	—	—	0.067	µg/L	Y	—	NQ	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.719	—	—	0.067	µg/L	Y	—	NQ	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.653	—	—	0.067	µg/L	Y	—	NQ	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.713	—	—	0.067	µg/L	Y	—	U	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.357	0.0295	0.0475	—	pCi/L	Y	—	J	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.459	0.0346	0.0522	—	pCi/L	Y	—	NQ	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.352	0.0337	0.05	—	pCi/L	Y	—	NQ	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.417	0.043	0.037	—	pCi/L	Y	—	NQ	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.564	0.065	0.12	—	pCi/L	Y	—	NQ	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0143	0.00861	0.0414	—	pCi/L	Y	U	U	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0159	0.00843	0.0329	—	pCi/L	Y	U	U	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.014	0.0086	0.0363	—	pCi/L	Y	U	U	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00551	0.0068	0.027	—	pCi/L	Y	U	U	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0102	0.01	0.056	—	pCi/L	Y	U	U	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.202	0.0224	0.0455	—	pCi/L	Y	—	NQ	2015-188	CAPA-14-87186	GELC
R-23i S2	470.2	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.235	0.0249	0.0277	—	pCi/L	Y	—	NQ	2014-2592	CAPA-14-49380	GELC
R-23i S2	470.2	10/17/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.227	0.0257	0.034	—	pCi/L	Y	—	NQ	2013-156	CAPA-12-23799	GELC
R-23i S2	470.2	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.196	0.026	0.044	—	pCi/L	Y	—	NQ	12-133	CAPA-12-1119	GELC
R-23i S2	470.2	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.313	0.044	0.072	—	pCi/L	Y	—	NQ	10-3999	CAPA-10-24083	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.57	—	—	1	µg/L	Y	J	J	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.12	—	—	1	µg/L	Y	J	J	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.65	—	—	1	µg/L	Y	J	J	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.14	—	—	1	µg/L	Y	J	J	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.19	—	—	1	µg/L	Y	J	J	11-2932	CAPA-11-22679	GELC
R-23i S2	470.2	10/29/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.49	—	—	3.3	µg/L	Y	J	J	2015-188	CAPA-14-87212	GELC
R-23i S2	470.2	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2592	CAPA-14-49406	GELC
R-23i S2	470.2	10/17/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-156	CAPA-12-23826	GELC
R-23i S2	470.2	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-133	CAPA-12-1117	GELC
R-23i S2	470.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2932	CAPA-11-22679	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	NQ	2015-113	CAPA-14-87213	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.84	—	—	0.01	SU	Y	H	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.23	—	—	0.01	SU	Y	H	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.19	—	—	0.01	SU	Y	H	J-	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.15	—	—	0.01	SU	Y	H	J-	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	J-	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.3	—	—	0.725	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	76.3	—	—	0.725	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.3	—	—	0.725	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	79.4	—	—	0.725	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	77.7	—	—	0.73	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	77	—	—	0.73	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	77.5	—	—	0.73	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0197	0.00727	0.0278	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0087	0.00962	0.0367	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00533	0.0284	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00961	0.00847	0.0437	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00342	0.0024	0.027	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0101	0.0044	0.039	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0472	—	—	0.017	mg/L	Y	J	J	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.163	—	—	0.017	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.76	—	—	1.7	µg/L	Y	J	J	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	2.76	—	—	1.7	µg/L	Y	J	J	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	7.63	—	—	1	µg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	7.2	—	—	1	µg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	6.81	—	—	1	µg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	7.85	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	7.42	—	—	1	µg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	7.17	—	—	1	µg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	7.31	—	—	1	µg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	N	16.9	—	—	5.08	µg/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	SVOC	SW-846:8270D	Benzoic Acid	65-85-0	Y	13.3	—	—	5	µg/L	Y	J	J	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	Y	16.3	—	—	6.19	µg/L	Y	J	J	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	20	—	—	6	µg/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	21.1	—	—	6.3	µg/L	Y	U	UJ	12-186	CAPA-12-1121	GELC
R-23i S3	524	04/18/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Benzoic Acid	65-85-0	N	20	—	—	6	µg/L	Y	U	U	11-2091	CAPA-11-9575	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	15.9	—	—	15	µg/L	Y	J	J	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	15.2	—	—	15	µg/L	Y	J	J	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	15.2	—	—	15	µg/L	Y	J	J	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.2	—	—	15	µg/L	Y	J	J	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	11-2978	CAPA-11-22849	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0752	—	—	0.067	mg/L	Y	J	J	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0731	—	—	0.067	mg/L	Y	J	J	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0895	—	—	0.066	mg/L	Y	J	J-	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0878	—	—	0.066	mg/L	Y	J	J	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0886	—	—	0.066	mg/L	Y	J	J	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.6	—	—	0.05	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.6	—	—	0.05	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	22.1	—	—	0.05	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.4	—	—	0.05	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.6	—	—	0.05	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	21.2	—	—	0.05	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.21	1.85	6.3	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.131	1.73	5.85	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.844	1.25	4.28	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.944	1.52	5.47	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.52	1.7	5.4	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.375	1.2	4	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.97	—	—	0.067	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	9.01	—	—	0.067	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.75	—	—	0.067	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.52	—	—	0.067	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	7.86	—	—	0.066	mg/L	Y	—	J-	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.25	—	—	0.066	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	8.25	—	—	0.066	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.13	2	7.44	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.11	1.66	5.68	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.85	1.13	4.64	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.133	1.59	6.06	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.6	1.7	7.5	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.14	1.1	3.3	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.198	—	—	0.033	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.198	—	—	0.033	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.194	—	—	0.033	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.222	—	—	0.033	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.207	—	—	0.033	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.208	—	—	0.033	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.632	0.624	2.24	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.84	0.705	2.03	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.27	0.892	2.97	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.509	0.643	2.44	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.36	0.8	2.3	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0806	0.48	2.3	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.46	0.878	2.62	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.317	0.695	2.53	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.8	0.859	2.35	—	pCi/L	Y	—	NQ	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.6	0.758	2.28	—	pCi/L	Y	—	NQ	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.943	0.67	2.2	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.68	0.92	2.6	—	pCi/L	Y	—	NQ	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	75.6	—	—	0.453	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	75.6	—	—	0.453	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66	—	—	0.453	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.3	—	—	0.453	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	73.7	—	—	0.45	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	74.6	—	—	0.45	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	77.3	—	—	0.45	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.86	—	—	0.11	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.86	—	—	0.11	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.98	—	—	0.11	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	6.37	—	—	0.11	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.5	—	—	0.11	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.66	—	—	0.11	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.93	—	—	0.11	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.067	µg/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	INORGANIC	EPA:245.2	Mercury	Hg	Y	0.129	—	—	0.067	µg/L	Y	J	J	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.067	µg/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	2	—	—	0.66	µg/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	07/29/11	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.066	µg/L	Y	U	U	11-2978	CAPA-11-22845	GELC
R-23i S3	524	07/29/11	WG	UF	INIT	FD	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.066	µg/L	Y	U	U	11-2978	CAPA-11-22850	GELC
R-23i S3	524	04/18/11	WG	UF	INIT	REG	INORGANIC	EPA:245.2	Mercury	Hg	N	0.2	—	—	0.066	µg/L	Y	U	U	11-2091	CAPA-11-9575	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.41	—	—	0.165	µg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.35	—	—	0.165	µg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.58	—	—	0.165	µg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.41	—	—	0.165	µg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.61	—	—	0.17	µg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.37	—	—	0.17	µg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.41	—	—	0.17	µg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.783	3.5	12.2	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.795	2.86	10.1	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.18	2.08	7.08	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.09	3.25	10.9	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.67	2.9	9.9	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.02	2.2	6.5	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.928	—	—	0.017	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.983	—	—	0.017	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.963	—	—	0.017	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.895	—	—	0.085	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.95	—	—	0.05	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0341	—	—	0.01	mg/L	Y	J	J	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.875	—	—	0.05	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.274	—	—	0.05	µg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.272	—	—	0.05	µg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.282	—	—	0.05	µg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.31	—	—	0.05	µg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.257	—	—	0.05	µg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.248	—	—	0.05	µg/L	Y	—	R	11-2978	CAPA-11-22849	GELC
R-23i S3	524	04/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.258	—	—	0.05	µg/L	Y	—	NQ	11-2091	CAPA-11-9576	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00231	0.00516	0.0343	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00789	0.00872	0.0391	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00281	0.00629	0.0287	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0047	0.0378	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00866	0.0087	0.05	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00625	0.0042	0.019	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00922	0.00729	0.0303	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00526	0.00743	0.0345	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0141	0.00932	0.044	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00332	0.00743	0.0449	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00577	0.0041	0.049	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00625	0.0036	0.03	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.52	—	—	0.05	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	2.53	—	—	0.05	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.36	—	—	0.05	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.73	—	—	0.05	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.45	—	—	0.05	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.69	—	—	0.05	mg/L	Y	—	J	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	2.74	—	—	0.05	mg/L	Y	—	J	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	22.8	17.8	74.9	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-9.24	19.2	73.8	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	18.5	15.8	36.6	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4	20.7	81.2	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.65	22	87	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	30.3	12	45	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	43.7	—	—	0.053	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	43.5	—	—	0.053	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	40.3	—	—	0.053	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	48.1	—	—	0.053	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	43.1	—	—	0.053	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	43.3	—	—	0.053	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	44.8	—	—	0.053	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.38	—	—	0.1	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.6	—	—	0.1	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.87	1.71	7.15	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	3.13	1.24	6.01	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.687	1.01	3.63	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.96	1.61	6.96	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.71	1.8	7.6	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.519	1.1	3.5	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	185	—	—	3.63	uS/cm	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	186	—	—	3.63	uS/cm	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	204	—	—	1	uS/cm	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	203	—	—	1	uS/cm	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	195	—	—	1	uS/cm	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	194	—	—	1	uS/cm	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	199	—	—	1	uS/cm	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	90.4	—	—	1	µg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	90	—	—	1	µg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	83	—	—	1	µg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	96.8	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	90.7	—	—	1	µg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	91.2	—	—	1	µg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	94.2	—	—	1	µg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	0.821	0.186	0.5	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	Y	0.652	0.156	0.419	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87152	GELC
R-23i S3	524	10/20/14	WG	UF	RE	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	3.64	0.244	0.499	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	RE	FD	RAD	EPA:905.0	Strontium-90	Sr-90	Y	13.8	0.351	0.496	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0516	0.12	0.493	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.183	0.13	0.435	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0813	0.13	0.46	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.136	0.14	0.48	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.07	—	—	0.133	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.06	—	—	0.133	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	8.13	—	—	0.133	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.26	—	—	0.133	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.42	—	—	0.1	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.38	—	—	0.1	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	7.33	—	—	0.1	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	116	—	—	3.4	mg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	147	—	—	3.4	mg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	3.4	mg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.777	—	—	0.33	mg/L	Y	J	J	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.771	—	—	0.33	mg/L	Y	J	J	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.98	—	—	0.33	mg/L	Y	—	NQ	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.29	—	—	0.33	mg/L	Y	—	NQ	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.05	—	—	0.33	mg/L	Y	—	NQ	12-186	CAPA-12-1121	GELC
R-23i S3	524	07/29/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.47	—	—	0.33	mg/L	Y	J	J	11-2977	CAPA-11-22845	GELC
R-23i S3	524	07/29/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.45	—	—	0.33	mg/L	Y	J	J	11-2977	CAPA-11-22850	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	19.657	3.148	2.628	—	pCi/L	Y	—	J-	2015-120	CAPA-14-87187	ARSL
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	20.847	3.29	2.32	—	pCi/L	Y	—	J-	2015-120	CAPA-14-87152	ARSL
R-23i S3	524	04/04/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	15.79	2.47	1.52	—	pCi/L	Y	—	J-	2014-3169	CAPA-14-57736	ARSL
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	17.653	2.801	2.017	—	pCi/L	Y	—	J-	2014-2651	CAPA-14-49381	ARSL
R-23i S3	524	04/23/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	19.009	2.988	1.94	—	pCi/L	Y	—	NQ	2013-765	CAPA-13-29565	ARSL
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	17.806	2.851	2.428	—	pCi/L	Y	—	J-	2013-74	CAPA-12-23800	ARSL
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.411	—	—	0.067	µg/L	Y	—	NQ	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.414	—	—	0.067	µg/L	Y	—	NQ	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.447	—	—	0.067	µg/L	Y	—	NQ	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.576	—	—	0.067	µg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.586	—	—	0.067	µg/L	Y	—	NQ	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.561	—	—	0.067	µg/L	Y	—	NQ	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.559	—	—	0.067	µg/L	Y	—	NQ	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.433	0.0472	0.111	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.464	0.036	0.0679	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.338	0.0369	0.0639	—	pCi/L	Y	—	NQ	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.323	0.0373	0.0641	—	pCi/L	Y	—	NQ	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.325	0.04	0.054	—	pCi/L	Y	—	NQ	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.473	0.057	0.12	—	pCi/L	Y	—	NQ	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0109	0.0779	—	pCi/L	Y	U	U	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00817	0.0475	—	pCi/L	Y	U	U	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0078	0.011	0.0403	—	pCi/L	Y	U	U	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0135	0.0119	0.0465	—	pCi/L	Y	U	U	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.02	0.0091	0.04	—	pCi/L	Y	U	U	12-187	CAPA-12-1121	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0298	0.012	0.055	—	pCi/L	Y	U	U	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.19	0.0322	0.0593	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87187	GELC
R-23i S3	524	10/20/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.189	0.0238	0.0362	—	pCi/L	Y	—	NQ	2015-113	CAPA-14-87152	GELC
R-23i S3	524	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.174	0.0262	0.0339	—	pCi/L	Y	—	NQ	2014-2618	CAPA-14-49381	GELC
R-23i S3	524	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.0247	0.0436	—	pCi/L	Y	—	NQ	2013-70	CAPA-12-23800	GELC
R-23i S3	524	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.181	0.028	0.063	—	pCi/L	Y	—	NQ	12-187	CAPA-12-1121	GELC
R-23i S3	524	08/04/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.237	0.036	0.07	—	pCi/L	Y	—	NQ	10-3999	CAPA-10-24086	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.98	—	—	1	µg/L	Y	J	J	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.8	—	—	1	µg/L	Y	J	J	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.02	—	—	1	µg/L	Y	J	J	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.35	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.34	—	—	1	µg/L	Y	J	J	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	4.83	—	—	1	µg/L	Y	J	U	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	N	4.91	—	—	1	µg/L	Y	J	U	11-2978	CAPA-11-22849	GELC
R-23i S3	524	10/20/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.66	—	—	3.3	µg/L	Y	J	J	2015-113	CAPA-14-87213	GELC
R-23i S3	524	10/20/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.72	—	—	3.3	µg/L	Y	J	J	2015-113	CAPA-14-87155	GELC
R-23i S3	524	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.31	—	—	3.3	µg/L	Y	J	J	2014-2618	CAPA-14-49407	GELC
R-23i S3	524	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-70	CAPA-12-23827	GELC
R-23i S3	524	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-187	CAPA-12-1122	GELC
R-23i S3	524	07/29/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2978	CAPA-11-22847	GELC
R-23i S3	524	07/29/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2978	CAPA-11-22849	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.69	—	—	0.01	SU	Y	H	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.17	—	—	0.01	SU	Y	H	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.66	—	—	0.01	SU	Y	H	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.22	—	—	0.01	SU	Y	H	J-	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.21	—	—	0.01	SU	Y	H	J-	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.3	—	—	0.725	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.4	—	—	0.725	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.2	—	—	0.725	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.5	—	—	0.73	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.2	—	—	0.73	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0026	0.00687	0.0329	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00973	0.00596	0.0317	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00474	0.00474	0.0323	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00324	0.0072	0.053	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0131	0.0061	0.034	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.062	—	—	0.017	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0581	—	—	0.017	mg/L	Y	—	U	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0218	—	—	0.016	mg/L	Y	J	J+	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	36.6	—	—	1	µg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	35.3	—	—	1	µg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	38	—	—	1	µg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	39.2	—	—	1	µg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	39.3	—	—	1	µg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	16	—	—	0.05	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.2	—	—	0.05	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16.3	—	—	0.05	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17	—	—	0.05	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	16	—	—	0.05	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.91	1.91	8.04	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.53	1.32	4.94	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.828	1.16	4.67	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.75	1.2	4.9	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.241	2.3	8.3	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.09	—	—	0.067	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.17	—	—	0.067	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3	—	—	0.067	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.83	—	—	0.066	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3	—	—	0.066	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.93	1.61	7.64	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.52	1.48	6.12	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.669	1.51	5.45	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.487	1.3	5.2	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.356	1.4	4.6	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.281	—	—	0.033	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.289	—	—	0.033	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.291	—	—	0.033	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.296	—	—	0.033	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.284	—	—	0.033	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.864	0.656	2.88	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.25	0.699	2.93	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.386	0.767	2.86	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.152	0.67	2.9	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.45	0.79	2.3	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.354	0.777	2.75	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.526	0.801	2.76	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.527	0.722	2.57	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.77	0.97	2.9	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.698	0.79	2.7	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.4	—	—	0.453	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.9	—	—	0.453	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	61.2	—	—	0.453	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	62	—	—	0.45	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	59.6	—	—	0.45	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	110	—	—	30	µg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	124	—	—	30	µg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	N	100	—	—	30	µg/L	Y	U	U	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.96	—	—	0.11	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.22	—	—	0.11	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.01	—	—	0.11	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.74	—	—	0.11	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.8	—	—	0.11	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	3.41	—	—	2	µg/L	Y	J	J	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	5.03	—	—	2	µg/L	Y	J	J	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	2.94	—	—	2	µg/L	Y	J	J	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	N	10	—	—	2	µg/L	Y	U	U	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	2.7	—	—	2	µg/L	Y	J	J	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.36	—	—	0.165	µg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.33	—	—	0.165	µg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.16	—	—	0.165	µg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.36	—	—	0.17	µg/L	Y	—	J	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.16	—	—	0.17	µg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.52	2.85	10.1	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.12	2.42	7.82	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.56	2.95	10.8	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.71	2.4	8.3	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.868	2.6	8.9	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.64	—	—	0.5	µg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	4.48	—	—	0.5	µg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.98	—	—	0.5	µg/L	Y	J	J	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.31	—	—	0.5	µg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.88	—	—	0.5	µg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.02	—	—	0.017	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.07	—	—	0.017	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.99	—	—	0.085	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.979	—	—	0.1	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.03	—	—	0.05	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.386	—	—	0.05	µg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.372	—	—	0.05	µg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.347	—	—	0.05	µg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.35	—	—	0.05	µg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	05/02/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.355	—	—	0.05	µg/L	Y	—	NQ	11-2258	CAPA-11-9320	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00227	0.00393	0.0338	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00585	0.0244	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00267	0.00706	0.0304	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00776	0.01	0.045	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00232	0.0023	0.021	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-7.57E-10	0.00556	0.0298	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00827	0.0374	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00267	0.00462	0.0361	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00776	0.0068	0.044	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00697	0.0061	0.034	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.75	—	—	0.05	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.64	—	—	0.05	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.84	—	—	0.05	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.79	—	—	0.05	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.83	—	—	0.05	mg/L	Y	—	J	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	40.3	20.6	96.6	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.4	25.1	42.6	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-30.6	15.9	56.1	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-33.6	16	58	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.59	18	64	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.6	—	—	0.053	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	59.9	—	—	0.053	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.1	—	—	0.053	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66	—	—	0.053	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65	—	—	0.053	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.75	—	—	0.1	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.14	2.22	8.24	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.934	1.13	4.66	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.187	1.29	4.89	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.72	0.98	4.2	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.179	1.2	4.1	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	149	—	—	3.63	uS/cm	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	169	—	—	1	uS/cm	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	166	—	—	1	uS/cm	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	167	—	—	1	uS/cm	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	162	—	—	1	uS/cm	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	74.4	—	—	1	µg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	69.3	—	—	1	µg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	78.9	—	—	1	µg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79.1	—	—	1	µg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	76.2	—	—	1	µg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.128	0.132	0.486	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0444	0.139	0.487	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.181	0.14	0.475	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.13	0.15	0.5	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.406	0.15	0.48	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.15	—	—	0.133	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.28	—	—	0.133	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.16	—	—	0.133	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.03	—	—	0.1	mg/L	Y	—	J+	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.92	—	—	0.1	mg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	157	—	—	3.4	mg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	151	—	—	3.4	mg/L	Y	—	J	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	J	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0516	—	—	0.033	mg/L	Y	J	J	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0456	—	—	0.033	mg/L	Y	J	J	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.118	—	—	0.035	mg/L	Y	—	J-	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	U	11-2949	CAPA-11-22695	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.636	—	—	0.33	mg/L	Y	J	J	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.963	—	—	0.33	mg/L	Y	J	J	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.08	—	—	0.33	mg/L	Y	—	NQ	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.752	—	—	0.33	mg/L	Y	J	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	07/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.698	—	—	0.33	mg/L	Y	J	J	11-2949	CAPA-11-22695	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.511	0.723	2.479	—	pCi/L	Y	U	U	2015-135	CAPA-14-87188	ARSL
R-32 S1	867.5	04/04/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.35	0.44	1.46	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57737	ARSL
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.355	0.613	2.059	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49382	ARSL
R-32 S1	867.5	04/09/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.045	0.61	2.076	—	pCi/L	Y	U	U	2013-710	CAPA-13-29566	ARSL
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.847	0.71	2.098	—	pCi/L	Y	U	U	2013-217	CAPA-12-23801	ARSL
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.567	—	—	0.067	µg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.511	—	—	0.067	µg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.69	—	—	0.067	µg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.59	—	—	0.067	µg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.706	—	—	0.067	µg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.509	0.0382	0.07	—	pCi/L	Y	—	J	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.417	0.0371	0.0607	—	pCi/L	Y	—	NQ	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.421	0.0371	0.0528	—	pCi/L	Y	—	NQ	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.446	0.048	0.045	—	pCi/L	Y	—	NQ	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.372	0.042	0.08	—	pCi/L	Y	—	NQ	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0103	0.0124	0.049	—	pCi/L	Y	U	U	2015-123	CAPA-14-87188	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0037	0.00642	0.0382	—	pCi/L	Y	U	U	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0185	0.00981	0.0383	—	pCi/L	Y	U	U	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00335	0.0075	0.033	—	pCi/L	Y	U	U	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0309	0.011	0.038	—	pCi/L	Y	U	U	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.217	0.0252	0.0373	—	pCi/L	Y	—	J	2015-123	CAPA-14-87188	GELC
R-32 S1	867.5	12/04/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.183	0.0238	0.0322	—	pCi/L	Y	—	NQ	2014-2617	CAPA-14-49382	GELC
R-32 S1	867.5	10/19/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.183	0.0253	0.0359	—	pCi/L	Y	—	NQ	2013-192	CAPA-12-23801	GELC
R-32 S1	867.5	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.219	0.029	0.053	—	pCi/L	Y	—	NQ	12-133	CAPA-12-1143	GELC
R-32 S1	867.5	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.181	0.026	0.049	—	pCi/L	Y	—	NQ	10-4049	CAPA-10-24125	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.16	—	—	1	µg/L	Y	J	J	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	2.18	—	—	1	µg/L	Y	J	J	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.71	—	—	1	µg/L	Y	J	J	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.18	—	—	1	µg/L	Y	J	J	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.39	—	—	1	µg/L	Y	J	J	11-2949	CAPA-11-22693	GELC
R-32 S1	867.5	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	28	—	—	3.3	µg/L	Y	—	NQ	2015-123	CAPA-14-87214	GELC
R-32 S1	867.5	12/04/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	32.2	—	—	3.3	µg/L	Y	—	NQ	2014-2617	CAPA-14-49408	GELC
R-32 S1	867.5	10/19/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	30.6	—	—	3.3	µg/L	Y	—	NQ	2013-192	CAPA-12-23828	GELC
R-32 S1	867.5	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	34.4	—	—	3.3	µg/L	Y	—	NQ	12-133	CAPA-12-1144	GELC
R-32 S1	867.5	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	36.8	—	—	3.3	µg/L	Y	—	NQ	11-2949	CAPA-11-22693	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.28	—	—	0.01	SU	Y	H	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.16	—	—	0.01	SU	Y	H	J-	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.27	—	—	0.01	SU	Y	H	J-	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	94.9	—	—	0.725	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	103	—	—	0.725	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	100	—	—	0.725	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	98.5	—	—	0.73	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	99.1	—	—	0.73	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0198	0.0175	0.0835	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00236	0.00527	0.0307	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.011	0.00867	0.0374	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0036	0.028	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00475	0.0043	0.033	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	9.17	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.7	—	—	1	µg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.55	—	—	1	µg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.47	—	—	1	µg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	8.34	—	—	1	µg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	27.9	—	—	15	µg/L	Y	J	J	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	26	—	—	15	µg/L	Y	J	J	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	27.6	—	—	15	µg/L	Y	J	J	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	27.1	—	—	15	µg/L	Y	J	J	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	29.7	—	—	15	µg/L	Y	J	J	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	24.7	—	—	0.05	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.9	—	—	0.05	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.5	—	—	0.05	mg/L	Y	—	J+	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	25.1	—	—	0.05	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	24.8	—	—	0.05	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.13	1.45	5.29	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.23	1.15	3.83	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.219	1.61	5.92	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.48	1.6	6.3	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.36	1.2	3.7	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.43	—	—	0.067	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.08	—	—	0.067	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.71	—	—	0.067	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.59	—	—	0.066	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.73	—	—	0.066	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.64	1.72	6.52	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.83	1.14	4.73	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.711	1.67	6.73	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.331	1.2	5.1	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.21	1.2	4.6	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	2.41	—	—	2.17	µg/L	Y	J	J	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	06/10/14	WG	UF	INIT	REG	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	2.92	—	—	2.85	µg/L	Y	J	J	2014-3534	CAMO-14-57541	GELC
R-37 S1	929.3	06/10/14	WG	UF	INIT	FD	SVOC	SW-846:8270D	Dioxane[1,4-]	123-91-1	Y	3.35	—	—	2.68	µg/L	Y	J	J	2014-3534	CAMO-14-57532	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	Y	3.95	—	—	3	µg/L	Y	J	J	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	04/17/13	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	10	—	—	3	µg/L	Y	U	UJ	2013-743	CAMO-13-29626	GELC
R-37 S1	929.3	04/17/13	WG	UF	INIT	FD	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	N	10.5	—	—	3.16	µg/L	Y	U	UJ	2013-743	CAMO-13-29614	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Dioxane[1,4-]	123-91-1	Y	3.52	—	—	3.19	µg/L	Y	J	J	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.517	—	—	0.033	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.232	—	—	0.033	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.552	—	—	0.033	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.577	—	—	0.033	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.545	—	—	0.033	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.323	0.723	2.84	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.352	0.77	2.88	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.408	0.635	2.59	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.34	0.88	1.8	—	pCi/L	Y	—	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.17	0.64	1.8	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.3	0.715	1.99	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.35	0.734	2.33	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.25	0.894	2.99	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.88	0.78	2.3	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.26	0.89	2.9	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.6	—	—	0.453	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.7	—	—	0.453	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.6	—	—	0.453	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.8	—	—	0.45	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.8	—	—	0.45	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	5.77	—	—	0.11	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.71	—	—	0.11	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.69	—	—	0.11	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.62	—	—	0.11	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	5.57	—	—	0.11	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.68	—	—	0.165	µg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.3	—	—	0.165	µg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.29	—	—	0.165	µg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.73	—	—	0.17	µg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.31	—	—	0.17	µg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.66	4.97	10.4	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.93	2.87	9.69	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.42	3.01	10.9	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	8	3.3	13	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.534	2.7	8.1	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.761	—	—	0.5	µg/L	Y	J	J	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.828	—	—	0.5	µg/L	Y	J	J	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.15	—	—	0.5	µg/L	Y	J	J	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.27	—	—	0.5	µg/L	Y	J	J	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.2	—	—	0.5	µg/L	Y	J	J	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.46	—	—	0.017	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.538	—	—	0.017	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.464	—	—	0.017	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.456	—	—	0.05	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.536	—	—	0.1	mg/L	Y	—	J	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.503	—	—	0.05	µg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.448	—	—	0.05	µg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.476	—	—	0.05	µg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.615	—	—	0.05	µg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	05/03/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.453	—	—	0.05	µg/L	Y	—	NQ	11-2284	CAPA-11-9300	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00209	0.00362	0.031	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00666	0.0277	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0189	0.0118	0.0358	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00783	0.0094	0.045	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00226	0.0039	0.02	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00209	0.00467	0.0274	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0244	0.0182	0.0425	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00314	0.00832	0.0425	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00261	0.0026	0.044	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0032	0.033	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.77	—	—	0.05	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.64	—	—	0.05	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.71	—	—	0.05	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.82	—	—	0.05	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.75	—	—	0.05	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	21.4	19.9	77.9	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.43	14.8	48.3	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	48.7	19.8	88.1	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-26	21	73	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22	15	45	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	58	—	—	0.053	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.9	—	—	0.053	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	60.1	—	—	0.053	mg/L	Y	—	J+	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.4	—	—	0.053	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56.7	—	—	0.053	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	15.7	—	—	0.1	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	16	—	—	0.1	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.5	—	—	0.1	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.3	—	—	0.1	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.932	1.56	6.26	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1	1.63	4.43	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.244	1.71	6.53	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.256	1.3	5	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.609	1.4	4.3	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	213	—	—	3.63	uS/cm	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	234	—	—	1	uS/cm	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	230	—	—	1	uS/cm	Y	—	NQ	2013-213	CAMO-12-23866	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-37 S1	929.3	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	234	—	—	1	uS/cm	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	242	—	—	1	uS/cm	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	104	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	103	—	—	1	µg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	101	—	—	1	µg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	101	—	—	1	µg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	102	—	—	1	µg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.176	0.139	0.488	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.355	0.152	0.489	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0345	0.122	0.473	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.186	0.11	0.48	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.191	0.15	0.49	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.7	—	—	0.133	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.08	—	—	0.133	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.53	—	—	0.133	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.34	—	—	0.1	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	9.19	—	—	0.1	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	147	—	—	3.4	mg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	161	—	—	3.4	mg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	167	—	—	3.4	mg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	177	—	—	3.4	mg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	153	—	—	3.4	mg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.508	—	—	0.33	mg/L	Y	J	J	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.344	—	—	0.33	mg/L	Y	J	J	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.878	—	—	0.33	mg/L	Y	J	J	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.785	—	—	0.33	mg/L	Y	J	J	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	07/19/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2877	CAPA-11-22854	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	33.122	5.096	2.06	—	pCi/L	Y	—	J+	2015-92	CAMO-14-87135	ARSL
R-37 S1	929.3	07/10/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	14.876	2.398	2.083	—	pCi/L	Y	—	J-	2014-3869	CAMO-14-81467	ARSL
R-37 S1	929.3	06/10/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	17.67	3.11	4.39	—	pCi/L	Y	—	NQ	2014-3540	CAMO-14-57541	ARSL
R-37 S1	929.3	06/10/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	14.61	2.83	5.08	—	pCi/L	Y	—	NQ	2014-3540	CAMO-14-57532	ARSL
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	28.477	4.38	1.755	—	pCi/L	Y	—	J-	2014-2650	CAMO-14-49328	ARSL
R-37 S1	929.3	07/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	26.229	4.078	2.109	—	pCi/L	Y	—	J-	2013-1191	CAMO-13-36941	ARSL
R-37 S1	929.3	07/11/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	11.429	1.887	1.921	—	pCi/L	Y	—	J-	2013-1191	CAMO-13-36945	ARSL
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.67	—	—	0.067	µg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.48	—	—	0.067	µg/L	Y	—	NQ	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.65	—	—	0.067	µg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.62	—	—	0.067	µg/L	Y	—	NQ	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	1.35	—	—	0.067	µg/L	Y	—	NQ	11-2877	CAPA-11-22856	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.22	0.0781	0.122	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.973	0.0503	0.0514	—	pCi/L	Y	—	NQ	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.922	0.053	0.0498	—	pCi/L	Y	—	J	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.01	0.094	0.055	—	pCi/L	Y	—	NQ	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	1.26	0.11	0.099	—	pCi/L	Y	—	NQ	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.012	0.017	0.0855	—	pCi/L	Y	U	U	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0314	0.0117	0.0324	—	pCi/L	Y	U	U	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0105	0.0135	0.0361	—	pCi/L	Y	U	U	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0246	0.012	0.041	—	pCi/L	Y	U	U	12-214	CAPA-12-1127	GELC
R-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00422	0.0094	0.047	—	pCi/L	Y	U	U	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.635	0.0564	0.0651	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87135	GELC
R-37 S1	929.3	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.46	0.0345	0.0273	—	pCi/L	Y	—	NQ	2014-2628	CAMO-14-49328	GELC
R-37 S1	929.3	10/23/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.356	0.0328	0.0339	—	pCi/L	Y	—	J	2013-213	CAMO-12-23859	GELC
R-37 S1	929.3	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.428	0.049	0.065	—	pCi/L	Y	—	NQ	12-214	CAPA-12-1127	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-37 S1	929.3	08/05/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.56	0.06	0.06	—	pCi/L	Y	—	NQ	10-4011	CAPA-10-24066	GELC
R-37 S1	929.3	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.02	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87142	GELC
R-37 S1	929.3	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.46	—	—	1	µg/L	Y	J	J	2014-2628	CAMO-14-49335	GELC
R-37 S1	929.3	10/23/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.16	—	—	1	µg/L	Y	—	NQ	2013-213	CAMO-12-23866	GELC
R-37 S1	929.3	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.38	—	—	1	µg/L	Y	J	J	12-214	CAPA-12-1128	GELC
R-37 S1	929.3	07/19/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.93	—	—	1	µg/L	Y	J	J	11-2877	CAPA-11-22856	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.88	—	—	0.01	SU	Y	H	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.82	—	—	0.01	SU	Y	H	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.03	—	—	0.01	SU	Y	H	J-	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	J-	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.7	—	—	0.725	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.3	—	—	0.725	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.1	—	—	0.725	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.6	—	—	0.73	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.5	—	—	0.73	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.0111	0.0574	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00184	0.00486	0.024	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00752	0.0103	0.0342	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0053	0.0059	0.027	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0033	0.004	0.04	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.171	—	—	0.017	mg/L	Y	—	J	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0939	—	—	0.017	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0222	—	—	0.017	mg/L	Y	J	U	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.79	—	—	1.7	µg/L	Y	J	J	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	28.5	—	—	1	µg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.1	—	—	1	µg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.9	—	—	1	µg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28	—	—	1	µg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.7	—	—	1	µg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.6	—	—	0.05	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.5	—	—	0.05	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.3	—	—	0.05	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.9	—	—	0.05	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.34	1.36	5.58	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.0164	1.62	5.98	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.787	1.3	4.88	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.56	1.8	7.2	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.33	1.1	3.2	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.58	—	—	0.067	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.42	—	—	0.067	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.27	—	—	0.067	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.27	—	—	0.066	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.26	—	—	0.066	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.58	—	—	2	µg/L	Y	J	J	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	4.16	—	—	2	µg/L	Y	J	U	2014-2634	CAMO-14-49336	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.59	—	—	2	µg/L	Y	J	J	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	8.06	—	—	2	µg/L	Y	J	J	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.218	1.5	6.08	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.4	1.77	7.85	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.5	1.22	4.3	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.08	1.6	5.8	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.505	1.3	3.8	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.223	—	—	0.033	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.268	—	—	0.033	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.272	—	—	0.033	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.277	—	—	0.033	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.283	—	—	0.033	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.317	0.715	2.9	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.197	0.794	2.99	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.16	0.487	2.89	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.36	0.83	2.6	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.47	0.67	1.4	—	pCi/L	Y	—	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.635	0.551	1.85	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.646	0.638	2.62	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.105	0.784	2.84	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.11	0.76	2.5	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.0108	0.7	2.6	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.1	—	—	0.453	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.4	—	—	0.453	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.5	—	—	0.453	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.8	—	—	0.45	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.6	—	—	0.45	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.94	—	—	0.11	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.83	—	—	0.11	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.12	—	—	0.11	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3	—	—	0.11	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.88	—	—	0.11	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.34	—	—	0.165	µg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.43	—	—	0.165	µg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.57	—	—	0.165	µg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.67	—	—	0.17	µg/L	Y	—	J	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.29	—	—	0.17	µg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.724	3.02	10.8	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.23	3.51	12.8	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.49	2.55	10.3	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.86	3.7	13	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.994	2.2	7.5	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.669	—	—	0.017	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.617	—	—	0.017	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.555	—	—	0.085	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.515	—	—	0.05	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.536	—	—	0.1	mg/L	Y	—	U	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.337	—	—	0.05	µg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.333	—	—	0.05	µg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.33	—	—	0.05	µg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.332	—	—	0.05	µg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	04/26/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.318	—	—	0.05	µg/L	Y	—	NQ	11-2183	CAPA-11-9321	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00206	0.00357	0.0306	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00814	0.0105	0.0277	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00229	0.00397	0.0261	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00581	0.01	0.033	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0183	0.0088	0.023	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00618	0.00545	0.027	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0136	0.00814	0.0425	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00687	0.00606	0.031	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0029	0.005	0.046	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0194	0.0097	0.038	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.69	—	—	0.05	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.58	—	—	0.05	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.74	—	—	0.05	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.86	—	—	0.05	mg/L	Y	—	J	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.74	—	—	0.05	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23.7	18.8	62.9	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	37.6	21.5	91.1	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.2	16.8	62.3	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.38	21	78	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.6	15	62	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.7	—	—	0.053	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.7	—	—	0.053	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.7	—	—	0.053	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.1	—	—	0.053	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.1	—	—	0.053	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.9	—	—	0.1	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.17	1.34	4.94	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.01	1.96	7.67	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.394	1.38	5.34	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.04	1.8	6.1	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.252	0.93	3.1	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	3.63	uS/cm	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	134	—	—	1	uS/cm	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	133	—	—	1	uS/cm	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	1	uS/cm	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	51	—	—	1	µg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.2	—	—	1	µg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52.9	—	—	1	µg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.3	—	—	1	µg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.5	—	—	1	µg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00965	0.143	0.487	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.238	0.146	0.483	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.187	0.136	0.497	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0278	0.12	0.48	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0342	0.13	0.49	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.16	—	—	0.133	mg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.99	—	—	0.133	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.67	—	—	0.133	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.89	—	—	0.1	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.66	—	—	0.1	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	J	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130	—	—	3.4	mg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	3.4	mg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.967	0.704	2.032	—	pCi/L	Y	U	U	2015-92	CAMO-14-87136	ARSL
R-37 S2	1026	07/09/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.979	0.72	2.091	—	pCi/L	Y	U	U	2014-3726	CAMO-14-81468	ARSL
R-37 S2	1026	04/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.456	0.641	2.137	—	pCi/L	Y	U	U	2014-3280	CAMO-14-57542	ARSL
R-37 S2	1026	01/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.696	0.647	2.125	—	pCi/L	Y	U	U	2014-2747	CAMO-14-49724	ARSL
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.937	0.648	2.088	—	pCi/L	Y	U	U	2014-2650	CAMO-14-49329	ARSL
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.522	—	—	0.067	µg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.419	—	—	0.067	µg/L	Y	—	NQ	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.461	—	—	0.067	µg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.348	—	—	0.067	µg/L	Y	—	U	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.418	—	—	0.067	µg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.274	0.0547	0.168	—	pCi/L	Y	—	NQ	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.223	0.0256	0.0497	—	pCi/L	Y	—	NQ	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.271	0.0283	0.0406	—	pCi/L	Y	—	NQ	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.344	0.033	0.041	—	pCi/L	Y	—	NQ	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.345	0.039	0.077	—	pCi/L	Y	—	NQ	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00826	0.0219	0.118	—	pCi/L	Y	U	U	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00606	0.00857	0.0313	—	pCi/L	Y	U	U	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0257	0.00946	0.0294	—	pCi/L	Y	U	U	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00992	0.0053	0.021	—	pCi/L	Y	U	U	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0164	0.0074	0.036	—	pCi/L	Y	U	U	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.127	0.036	0.0896	—	pCi/L	Y	—	NQ	2015-79	CAMO-14-87136	GELC
R-37 S2	1026	12/06/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.15	0.0204	0.0263	—	pCi/L	Y	—	NQ	2014-2634	CAMO-14-49329	GELC
R-37 S2	1026	10/22/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.134	0.0187	0.0276	—	pCi/L	Y	—	NQ	2013-204	CAMO-12-23860	GELC
R-37 S2	1026	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.167	0.02	0.018	—	pCi/L	Y	—	NQ	12-231	CAPA-12-1178	GELC
R-37 S2	1026	08/10/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.125	0.021	0.047	—	pCi/L	Y	—	NQ	10-4108	CAPA-10-24128	GELC
R-37 S2	1026	10/14/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.68	—	—	1	µg/L	Y	—	NQ	2015-79	CAMO-14-87143	GELC
R-37 S2	1026	12/06/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.26	—	—	1	µg/L	Y	J	J	2014-2634	CAMO-14-49336	GELC
R-37 S2	1026	10/22/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.1	—	—	1	µg/L	Y	—	NQ	2013-204	CAMO-12-23867	GELC
R-37 S2	1026	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.49	—	—	1	µg/L	Y	—	NQ	12-230	CAPA-12-1177	GELC
R-37 S2	1026	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.88	—	—	1	µg/L	Y	—	NQ	11-2816	CAPA-11-22887	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.61	—	—	0.01	SU	Y	H	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.59	—	—	0.01	SU	Y	H	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.42	—	—	0.01	SU	Y	H	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.66	—	—	0.01	SU	Y	H	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.47	—	—	0.01	SU	Y	H	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.52	—	—	0.01	SU	Y	H	J-	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.58	—	—	0.01	SU	Y	H	J-	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.66	—	—	0.01	SU	Y	H	J-	11-2941	CAPA-11-22894	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.6	—	—	0.725	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.4	—	—	0.725	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.3	—	—	0.725	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.8	—	—	0.725	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.3	—	—	0.725	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.7	—	—	0.73	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.7	—	—	0.73	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.2	—	—	0.73	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0144	0.00764	0.0603	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00293	0.00775	0.0382	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00251	0.00562	0.0327	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00512	0.00627	0.0349	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0119	0.00712	0.0324	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00449	0.0084	0.035	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00314	0.005	0.044	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0033	0.0046	0.033	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	1.05	—	—	1	µg/L	Y	J	J	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	N	3	—	—	1	µg/L	Y	U	U	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Antimony	Sb	N	3	—	—	1	µg/L	Y	U	U	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	N	1.35	—	—	1	µg/L	Y	JN	U	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Antimony	Sb	N	3	—	—	1	µg/L	Y	UN	U	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	N	3	—	—	1	µg/L	Y	U	U	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Antimony	Sb	Y	3.57	—	—	1	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Antimony	Sb	Y	2.2	—	—	1	µg/L	Y	J	J	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6020	Antimony	Sb	N	3	—	—	1	µg/L	Y	U	U	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.2	—	—	1	µg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.5	—	—	1	µg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.7	—	—	1	µg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.2	—	—	1	µg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.7	—	—	1	µg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.2	—	—	1	µg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	349	—	—	1	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.1	—	—	1	µg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.6	—	—	1	µg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.1	—	—	0.05	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.1	—	—	0.05	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.1	—	—	0.05	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.3	—	—	0.05	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.4	—	—	0.05	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	74.3	—	—	0.05	mg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.9	—	—	0.05	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.5	—	—	0.05	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.548	1.85	5.8	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.29	1.47	5.55	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.47	1.45	5.73	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.64	1.13	4.05	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.585	1.15	3.98	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.31	2	7.9	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.585	1.9	6.2	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.785	1.4	4.8	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.72	—	—	0.067	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.8	—	—	0.067	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.8	—	—	0.067	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.5	—	—	0.067	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.52	—	—	0.067	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.38	—	—	0.066	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.52	—	—	0.066	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.48	—	—	0.066	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.34	—	—	2	µg/L	Y	J	J	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	2.69	—	—	2	µg/L	Y	J	U	2014-2584	CAMO-14-49337	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	3.04	—	—	2	µg/L	Y	J	U	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.94	—	—	2	µg/L	Y	J	J	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.81	—	—	2	µg/L	Y	J	J	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	22.6	—	—	2	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	6.73	—	—	2	µg/L	Y	J	U	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	4.23	—	—	2	µg/L	Y	J	J	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.748	1.54	6.26	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.93	1.04	5.74	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.546	1.31	4.79	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.03	1.09	3.7	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.13	1.07	4.24	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.83	1.8	6.6	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.15	1.9	6.8	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.42	1.5	4.3	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.293	—	—	0.033	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.309	—	—	0.033	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.325	—	—	0.033	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.325	—	—	0.033	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.315	—	—	0.033	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.309	—	—	0.033	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.294	—	—	0.033	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.891	0.717	2.53	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.35	0.743	2.94	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.63	0.909	2.93	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.555	0.705	2.63	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.152	0.632	2.64	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.683	0.63	2.3	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.296	0.37	2.2	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.497	0.61	2.9	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.65	0.512	1.65	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.28	0.915	2.92	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.02	0.873	2.92	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.525	0.616	2.18	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.0155	0.548	2.13	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.56	0.96	3	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.41	0.9	2.8	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.674	0.79	2.7	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.2	—	—	0.453	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.6	—	—	0.453	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.4	—	—	0.453	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.6	—	—	0.453	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.2	—	—	0.453	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.5	—	—	0.45	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	271	—	—	0.45	mg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.1	—	—	0.45	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.4	—	—	0.45	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.61	—	—	0.11	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.49	—	—	0.11	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.45	—	—	0.11	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.6	—	—	0.11	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.61	—	—	0.11	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.57	—	—	0.11	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	20.7	—	—	0.11	mg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.59	—	—	0.11	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.7	—	—	0.11	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.48	—	—	0.165	µg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.6	—	—	0.165	µg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.71	—	—	0.165	µg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.77	—	—	0.165	µg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.7	—	—	0.165	µg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.12	—	—	0.17	µg/L	Y	—	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	180	—	—	0.17	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.71	—	—	0.17	µg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.72	—	—	0.17	µg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.69	3.26	11.9	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.29	2.82	9.66	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.36	2.73	9.04	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.515	1.95	6.64	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.6	2.4	7.9	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.93	2.6	9.4	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.739	3.1	10	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.09	2.9	8.4	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.81	—	—	0.5	µg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	3.1	—	—	0.5	µg/L	Y	—	U	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.23	—	—	0.5	µg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.57	—	—	0.5	µg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.41	—	—	0.5	µg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	4.04	—	—	0.5	µg/L	Y	—	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	9.23	—	—	0.5	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.22	—	—	0.5	µg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.83	—	—	0.5	µg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.712	—	—	0.017	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	1.39	—	—	0.017	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.7	—	—	0.017	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.635	—	—	0.085	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.72	—	—	0.085	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.63	—	—	0.05	mg/L	Y	—	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.64	—	—	0.05	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.64	—	—	0.05	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.301	—	—	0.05	µg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.362	—	—	0.05	µg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.359	—	—	0.05	µg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.36	—	—	0.05	µg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.356	—	—	0.05	µg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.335	—	—	0.05	µg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	05/06/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.366	—	—	0.05	µg/L	Y	—	NQ	11-2344	CAPA-11-9326	GELC
R-38	821.2	05/06/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.371	—	—	0.05	µg/L	Y	—	NQ	11-2344	CAPA-11-9328	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00955	0.00993	0.0298	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00541	0.00765	0.0276	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00591	0.0301	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00235	0.00622	0.0268	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00798	0.0371	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00265	0.0059	0.046	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00964	0.0058	0.017	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00185	0.0019	0.017	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00762	0.0086	0.0444	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0027	0.00468	0.0423	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00295	0.0135	0.0462	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00576	0.0318	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00977	0.00977	0.044	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00265	0.0059	0.045	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00578	0.0051	0.028	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0037	0.0037	0.027	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.57	—	—	0.05	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.49	—	—	0.05	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.49	—	—	0.05	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.68	—	—	0.05	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.58	—	—	0.05	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.6	—	—	0.05	mg/L	Y	—	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	11.3	—	—	0.05	mg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.66	—	—	0.05	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.56	—	—	0.05	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	5.24	17.5	74.2	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-7.76	15.9	59.6	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-35.2	16.7	59.1	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20.4	15.7	48.8	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-28.6	14.7	48.7	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-17.3	22	79	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-50.1	20	43	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-10.3	16	54	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	66.8	—	—	0.053	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.8	—	—	0.053	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66	—	—	0.053	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.7	—	—	0.053	mg/L	Y	—	J+	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.3	—	—	0.053	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	170	—	—	0.27	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.9	—	—	0.053	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.94	—	—	0.1	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.99	—	—	0.1	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	115	—	—	0.1	mg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.68	1.56	5.45	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.172	1.25	4.89	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.631	1.07	3.94	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.04	1.1	3.74	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.428	1.24	4.41	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.27	1.8	6.7	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.227	1.6	5.3	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.547	1.4	4.5	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	130	—	—	3.63	uS/cm	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	uS/cm	Y	—	NQ	2014-2584	CAMO-14-49337	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-38	821.2	12/02/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	138	—	—	1	uS/cm	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	uS/cm	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	uS/cm	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	133	—	—	1	uS/cm	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	132	—	—	1	uS/cm	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	53.3	—	—	1	µg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.5	—	—	1	µg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.3	—	—	1	µg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.3	—	—	1	µg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.1	—	—	1	µg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.7	—	—	1	µg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	367	—	—	1	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.7	—	—	1	µg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.3	—	—	1	µg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0651	0.14	0.494	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0846	0.14	0.498	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.352	0.154	0.491	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.169	0.136	0.488	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0381	0.133	0.479	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0646	0.14	0.48	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.207	0.14	0.48	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00844	0.15	0.49	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.03	—	—	0.133	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.14	—	—	0.133	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.12	—	—	0.133	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.25	—	—	0.133	mg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.13	—	—	0.133	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.93	—	—	0.1	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.81	—	—	0.1	mg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.83	—	—	0.1	mg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	3.4	mg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	3.4	mg/L	Y	—	J	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	J	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	J	11-2941	CAPA-11-22894	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0375	—	—	0.033	mg/L	Y	J	J	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.5	—	—	0.175	mg/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-168	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	11-2940	CAPA-11-22889	GELC
R-38	821.2	07/26/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	11-2940	CAPA-11-22893	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.387	—	—	0.33	mg/L	Y	J	J-	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.756	—	—	0.33	mg/L	Y	J	J	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.848	—	—	0.33	mg/L	Y	J	J	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.714	—	—	0.33	mg/L	Y	J	J	12-168	CAPA-12-1181	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-38	821.2	07/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.406	—	—	0.33	mg/L	Y	J	J	11-2940	CAPA-11-22889	GELC
R-38	821.2	07/26/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2940	CAPA-11-22893	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.528	0.832	2.86	—	pCi/L	Y	U	U	2015-184	CAMO-14-87137	ARSL
R-38	821.2	04/01/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	3.745	1.123	3.047	—	pCi/L	Y	—	J-	2014-3114	CAMO-14-57543	ARSL
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.937	1.063	3.349	—	pCi/L	Y	U	U	2014-2604	CAMO-14-49330	ARSL
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.838	0.815	2.674	—	pCi/L	Y	U	U	2014-2604	CAMO-14-49319	ARSL
R-38	821.2	04/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.018	0.666	2.135	—	pCi/L	Y	U	U	2013-737	CAMO-13-29628	ARSL
R-38	821.2	04/11/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.426	0.696	2.331	—	pCi/L	Y	U	U	2013-737	CAMO-13-29615	ARSL
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.316	0.692	2.323	—	pCi/L	Y	U	U	2013-58	CAMO-12-23861	ARSL
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.617	0.655	2.244	—	pCi/L	Y	U	U	2013-58	CAMO-12-23849	ARSL
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.328	—	—	0.067	µg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.257	—	—	0.067	µg/L	Y	—	NQ	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.263	—	—	0.067	µg/L	Y	—	NQ	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.337	—	—	0.067	µg/L	Y	—	U	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	N	0.327	—	—	0.067	µg/L	Y	—	U	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.388	—	—	0.067	µg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	10.8	—	—	0.067	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	N	0.387	—	—	0.067	µg/L	Y	—	U	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.275	—	—	0.067	µg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.223	0.0273	0.0617	—	pCi/L	Y	—	NQ	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.205	0.025	0.0545	—	pCi/L	Y	—	NQ	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.186	0.0224	0.0508	—	pCi/L	Y	—	NQ	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.186	0.0258	0.0463	—	pCi/L	Y	—	NQ	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.226	0.0282	0.0565	—	pCi/L	Y	—	NQ	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.211	0.029	0.046	—	pCi/L	Y	—	NQ	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.32	0.037	0.078	—	pCi/L	Y	—	NQ	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.282	0.033	0.07	—	pCi/L	Y	—	NQ	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0112	0.00986	0.0538	—	pCi/L	Y	U	U	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00998	0.00744	0.0343	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0186	0.00877	0.032	—	pCi/L	Y	U	U	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00326	0.00564	0.0336	—	pCi/L	Y	U	U	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00794	0.0112	0.041	—	pCi/L	Y	U	U	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0136	0.0069	0.034	—	pCi/L	Y	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.02	0.0095	0.037	—	pCi/L	Y	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00594	0.0042	0.033	—	pCi/L	Y	U	U	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.106	0.0188	0.0591	—	pCi/L	Y	—	NQ	2015-170	CAMO-14-87137	GELC
R-38	821.2	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0996	0.0177	0.0289	—	pCi/L	Y	—	NQ	2014-2584	CAMO-14-49330	GELC
R-38	821.2	12/02/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.11	0.0174	0.0269	—	pCi/L	Y	—	NQ	2014-2584	CAMO-14-49319	GELC
R-38	821.2	10/09/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.113	0.0181	0.0315	—	pCi/L	Y	—	NQ	2013-57	CAMO-12-23861	GELC
R-38	821.2	10/09/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0867	0.0201	0.0384	—	pCi/L	Y	—	NQ	2013-57	CAMO-12-23849	GELC
R-38	821.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0881	0.018	0.054	—	pCi/L	Y	—	NQ	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.159	0.024	0.047	—	pCi/L	Y	—	NQ	10-4046	CAPA-10-24148	GELC
R-38	821.2	08/06/10	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.135	0.02	0.042	—	pCi/L	Y	—	NQ	10-4046	CAPA-10-24152	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.2	—	—	1	µg/L	Y	J	J	2015-170	CAMO-14-87144	GELC
R-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.42	—	—	1	µg/L	Y	J	J	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.81	—	—	1	µg/L	Y	J	J	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5.45	—	—	1	µg/L	Y	—	U	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	N	4.45	—	—	1	µg/L	Y	J	U	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.94	—	—	1	µg/L	Y	J	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	9.54	—	—	1	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.99	—	—	1	µg/L	Y	J	J	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.31	—	—	1	µg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-38	821.2	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	13.3	—	—	3.3	µg/L	Y	—	NQ	2015-170	CAMO-14-87144	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-38	821.2	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.13	—	—	3.3	µg/L	Y	J	J	2014-2584	CAMO-14-49337	GELC
R-38	821.2	12/02/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	8.82	—	—	3.3	µg/L	Y	J	J	2014-2584	CAMO-14-49320	GELC
R-38	821.2	10/09/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.9	—	—	3.3	µg/L	Y	—	NQ	2013-57	CAMO-12-23868	GELC
R-38	821.2	10/09/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	9.93	—	—	3.3	µg/L	Y	J	J	2013-57	CAMO-12-23850	GELC
R-38	821.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.2	—	—	3.3	µg/L	Y	—	NQ	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	23.3	—	—	3.3	µg/L	N	—	R	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.8	—	—	3.3	µg/L	Y	—	NQ	11-2941	CAPA-11-22894	GELC
R-38	821.2	07/26/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.9	—	—	3.3	µg/L	Y	—	NQ	11-2941	CAPA-11-22890	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.29	—	—	0.01	SU	Y	H	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.22	—	—	0.01	SU	Y	H	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	J-	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	J-	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.2	—	—	0.725	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.9	—	—	0.725	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.3	—	—	0.725	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.8	—	—	0.725	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57	—	—	0.73	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.7	—	—	0.73	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0022	0.0073	0.0279	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00264	0.00457	0.0424	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00398	0.00398	0.0271	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00415	0.00656	0.0283	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0013	0.0047	0.039	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.000244	0.005	0.036	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.04	—	—	0.017	mg/L	Y	J	J	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0804	—	—	0.017	mg/L	Y	—	U	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0362	—	—	0.017	mg/L	Y	J	U	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0271	—	—	0.017	mg/L	Y	J	U	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.84	—	—	1.7	µg/L	Y	J	J	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	14.8	—	—	1	µg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15.6	—	—	1	µg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15.5	—	—	1	µg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	15.8	—	—	1	µg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	14.9	—	—	1	µg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	15.9	—	—	1	µg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.4	—	—	0.05	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.2	—	—	0.05	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13	—	—	0.05	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.57	1.29	4.05	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.179	1.32	3.98	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.372	1.47	5.28	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-39	859	10/11/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.34	1.13	3.95	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.87	1.4	4.9	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.324	1.5	4.5	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.3	—	—	0.067	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.34	—	—	0.067	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.15	—	—	0.067	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.16	—	—	0.067	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.13	—	—	0.066	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.21	—	—	0.066	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.79	—	—	2	µg/L	Y	J	J	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.65	—	—	2	µg/L	Y	J	J	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.82	—	—	2	µg/L	Y	J	J	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.99	—	—	2	µg/L	Y	J	J	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.08	—	—	2	µg/L	Y	J	J	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	6.68	—	—	2	µg/L	Y	J	U	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.5	1.47	5.37	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.525	1.34	4.56	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.801	1.25	5.19	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.94	1.35	3.77	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.83	1.6	6.8	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.185	1.4	4.5	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.279	—	—	0.033	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.235	—	—	0.033	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.255	—	—	0.033	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.243	—	—	0.033	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.316	—	—	0.033	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.269	—	—	0.033	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.317	0.527	2.38	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.124	0.645	2.9	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.723	0.664	2.43	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.0198	0.405	2.14	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.835	0.73	2.6	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.704	0.57	2	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.62	0.895	2.65	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.812	0.346	1.12	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.01	0.625	2.05	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	-0.52	0.71	2.81	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.344	0.63	2.3	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.73	0.81	2.5	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.4	—	—	0.453	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	48.3	—	—	0.453	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.5	—	—	0.453	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.7	—	—	0.453	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.2	—	—	0.45	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.4	—	—	0.45	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.5	—	—	0.11	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.69	—	—	0.11	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.51	—	—	0.11	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.6	—	—	0.11	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.47	—	—	0.11	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.64	—	—	0.11	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.65	—	—	0.165	µg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.72	—	—	0.165	µg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.71	—	—	0.165	µg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.67	—	—	0.165	µg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.36	—	—	0.17	µg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.29	—	—	0.17	µg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.82	2.74	9.83	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.51	2.25	7.84	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.14	3.32	10.8	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.13	2.74	9.64	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.325	2.4	8.6	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.06	3	9.4	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.653	—	—	0.017	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.735	—	—	0.017	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.672	—	—	0.017	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.655	—	—	0.017	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.62	—	—	0.05	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.685	—	—	0.05	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.334	—	—	0.05	µg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.336	—	—	0.05	µg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.36	—	—	0.05	µg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.339	—	—	0.05	µg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.336	—	—	0.05	µg/L	Y	—	NQ	11-2142	CAPA-11-9341	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00498	0.00995	0.037	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.01	0.0121	0.0288	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00216	0.00375	0.0246	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00455	0.0072	0.0259	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00242	0.0034	0.042	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0024	0.022	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0174	0.00825	0.0327	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0134	0.0125	0.0693	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00432	0.00684	0.0292	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00455	0.00788	0.0308	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00725	0.0042	0.041	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.89E-10	0.0048	0.035	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.4	—	—	0.05	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.23	—	—	0.05	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.51	—	—	0.05	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.54	—	—	0.05	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.37	—	—	0.05	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.6	—	—	0.05	mg/L	Y	—	J	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	12.6	15.7	55.7	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-1.3	14.7	54.7	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.7	19.6	78.5	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-28.7	15.9	59.4	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.3	18	67	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.7	18	59	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	65.9	—	—	0.053	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.2	—	—	0.053	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.1	—	—	0.053	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74	—	—	0.053	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.6	—	—	0.053	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.7	—	—	0.053	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.747	1.26	4.56	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.82	1.11	4.28	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.589	1.17	4.38	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.07	1.36	5.54	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.55	1.7	7	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.05	1.1	3	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	3.63	uS/cm	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	1	uS/cm	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	uS/cm	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	138	—	—	1	uS/cm	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	130	—	—	1	uS/cm	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	130	—	—	1	uS/cm	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	56.3	—	—	1	µg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	54.7	—	—	1	µg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58.8	—	—	1	µg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	60.5	—	—	1	µg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.3	—	—	1	µg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.8	—	—	1	µg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.169	0.0865	0.304	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.12	0.141	0.48	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.231	0.127	0.483	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.117	0.145	0.492	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.125	0.14	0.5	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.045	0.095	0.36	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.14	—	—	0.133	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.1	—	—	0.133	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.98	—	—	0.133	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.99	—	—	0.133	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.92	—	—	0.1	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.78	—	—	0.1	mg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	109	—	—	3.4	mg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	3.4	mg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107	—	—	3.4	mg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	127	—	—	3.4	mg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	J	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.119	0.76	2.591	—	pCi/L	Y	U	U	2015-135	CAPA-14-87189	ARSL
R-39	859	07/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.762	0.622	2.027	—	pCi/L	Y	U	U	2014-3873	CAPA-14-81481	ARSL
R-39	859	04/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.141	0.587	2.004	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57738	ARSL
R-39	859	01/24/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.994	0.624	1.991	—	pCi/L	Y	U	U	2014-2828	CAPA-14-49710	ARSL
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.862	0.626	2.024	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49383	ARSL
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.336	—	—	0.067	µg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.369	—	—	0.067	µg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.351	—	—	0.067	µg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.347	—	—	0.067	µg/L	Y	—	NQ	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.307	—	—	0.067	µg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.355	—	—	0.067	µg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.305	0.0302	0.068	—	pCi/L	Y	—	NQ	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.261	0.0291	0.0364	—	pCi/L	Y	—	NQ	2014-2693	CAPA-14-49383	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-39	859	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.296	0.0298	0.0451	—	pCi/L	Y	—	NQ	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.301	0.0308	0.0457	—	pCi/L	Y	—	NQ	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.228	0.032	0.052	—	pCi/L	Y	—	NQ	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.348	0.037	0.06	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00334	0.00883	0.0476	—	pCi/L	Y	U	U	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0145	0.0102	0.0327	—	pCi/L	Y	U	U	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00776	0.0327	—	pCi/L	Y	U	U	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00963	0.00963	0.0332	—	pCi/L	Y	U	U	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0115	0.0067	0.038	—	pCi/L	Y	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0179	0.0093	0.028	—	pCi/L	Y	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.113	0.0198	0.0362	—	pCi/L	Y	—	NQ	2015-123	CAPA-14-87189	GELC
R-39	859	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.111	0.0185	0.0228	—	pCi/L	Y	—	NQ	2014-2693	CAPA-14-49383	GELC
R-39	859	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.0181	0.0307	—	pCi/L	Y	—	NQ	2013-65	CAPA-12-23802	GELC
R-39	859	10/11/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.145	0.0198	0.0311	—	pCi/L	Y	—	NQ	2013-65	CAPA-12-23763	GELC
R-39	859	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.131	0.022	0.061	—	pCi/L	Y	—	NQ	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.124	0.02	0.036	—	pCi/L	Y	—	NQ	10-4140	CAPA-10-24143	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.19	—	—	1	µg/L	Y	—	NQ	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.17	—	—	1	µg/L	Y	—	NQ	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.14	—	—	1	µg/L	Y	—	NQ	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	N	5.61	—	—	1	µg/L	Y	—	U	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.27	—	—	1	µg/L	Y	—	NQ	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.15	—	—	1	µg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-39	859	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.33	—	—	3.3	µg/L	Y	J	J	2015-123	CAPA-14-87215	GELC
R-39	859	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2693	CAPA-14-49409	GELC
R-39	859	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-65	CAPA-12-23829	GELC
R-39	859	10/11/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-65	CAPA-12-23766	GELC
R-39	859	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	14.5	—	—	3.3	µg/L	Y	—	NQ	11-2967	CAPA-11-22897	GELC
R-40 S1	751.59	10/28/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.75	—	—	0.3	µg/L	Y	J	J	2015-172	CAPA-14-87190	GELC
R-40 S1	751.59	04/15/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.72	—	—	0.3	µg/L	Y	HJ	J	2014-3229	CAPA-14-57739	GELC
R-40 S1	751.59	12/11/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.8	—	—	0.3	µg/L	Y	J	J	2014-2659	CAPA-14-49384	GELC
R-40 S1	751.59	04/17/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-742	CAPA-13-29568	GELC
R-40 S1	751.59	10/12/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-70	CAPA-12-23803	GELC
R-40 S1	751.59	10/12/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-73	CAPA-13-24285	GELC
R-40 S1	751.59	10/28/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.636	0.794	2.731	—	pCi/L	Y	U	U	2015-182	CAPA-14-87190	ARSL
R-40 S1	751.59	04/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.106	0.588	2.006	—	pCi/L	Y	U	U	2014-3216	CAPA-14-57739	ARSL
R-40 S1	751.59	12/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.537	0.641	2.13	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49384	ARSL
R-40 S1	751.59	04/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.426	0.663	2.218	—	pCi/L	Y	U	U	2013-739	CAPA-13-29568	ARSL
R-40 S1	751.59	10/12/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.145	0.69	2.341	—	pCi/L	Y	U	U	2013-74	CAPA-12-23803	ARSL
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.85	—	—	0.01	SU	Y	H	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.88	—	—	0.01	SU	Y	H	J-	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.03	—	—	0.01	SU	Y	H	J-	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	J-	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.2	—	—	0.725	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2	—	—	0.725	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57	—	—	0.73	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.4	—	—	0.73	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.9	—	—	0.73	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00478	0.00478	0.0303	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00991	0.00594	0.0258	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0128	0.00951	0.029	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00789	0.004	0.032	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00174	0.0064	0.038	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	27.9	—	—	1	µg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.2	—	—	1	µg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.6	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.7	—	—	1	µg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24	—	—	1	µg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.5	—	—	1	µg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.5	—	—	0.05	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.2	—	—	0.05	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12	—	—	0.05	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.4	—	—	0.05	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.7	—	—	0.05	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.32	1.67	5.47	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.24	2.3	4.24	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.95	1.51	6.06	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.7	1.4	4.8	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.83	2.2	8.2	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.99	—	—	0.067	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	5.23	—	—	0.067	mg/L	N	—	R	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	12/03/13	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.06	—	—	0.067	mg/L	Y	H	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.92	—	—	0.067	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.066	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.9	—	—	0.066	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.91	—	—	0.066	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.3	—	—	2	µg/L	Y	J	J	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	2.2	—	—	2	µg/L	Y	J	U	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	5.02	—	—	2	µg/L	Y	J	U	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.38	—	—	2	µg/L	Y	J	J	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	UN	UJ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	UN	UJ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.635	1.52	5.72	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.15	1.54	5.39	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.937	1.46	5.44	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.39	1.8	6.4	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.116	1.7	5.7	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.24	—	—	0.033	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.597	—	—	0.033	mg/L	N	—	R	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	12/03/13	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.218	—	—	0.033	mg/L	Y	H	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.204	—	—	0.033	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.241	—	—	0.033	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.22	—	—	0.033	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.223	—	—	0.033	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.205	0.763	2.98	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.387	0.718	2.92	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.912	0.828	2.87	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.178	0.51	2.5	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.04	0.9	2.3	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.1	0.976	2.84	—	pCi/L	Y	—	NQ	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.809	0.509	1.68	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.07	0.867	2.74	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.12	0.8	2.3	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.77	0.9	2.9	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.6	—	—	0.453	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.5	—	—	0.453	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.9	—	—	0.453	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41	—	—	0.45	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.4	—	—	0.45	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.5	—	—	0.45	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.89	—	—	0.11	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.78	—	—	0.11	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.26	—	—	0.11	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.7	—	—	0.11	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.67	—	—	0.11	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.74	—	—	0.11	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.39	—	—	0.165	µg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.6	—	—	0.165	µg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.48	—	—	0.165	µg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.53	—	—	0.17	µg/L	Y	—	J	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.29	—	—	0.17	µg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.33	—	—	0.17	µg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.335	3.16	11	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.12	3.21	11.4	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.119	2.88	10.3	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.93	3.2	11	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.5	2.6	9.1	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.422	—	—	0.017	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.513	—	—	0.017	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.461	—	—	0.017	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0855	—	—	0.01	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.319	—	—	0.05	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.333	—	—	0.05	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	HERB	SW-846:8151A	Pentachlorophenol	87-86-5	Y	0.077	—	—	0.0725	µg/L	N	J	R	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	10/17/14	WG	UF	RE	REG	HERB	SW-846:8151A	Pentachlorophenol	87-86-5	N	0.221	—	—	0.0737	µg/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	HERB	SW-846:8151A	Pentachlorophenol	87-86-5	N	0.253	—	—	0.0505	µg/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pentachlorophenol	87-86-5	N	11	—	—	3.3	µg/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pentachlorophenol	87-86-5	N	10.6	—	—	3.2	µg/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/08/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pentachlorophenol	87-86-5	N	10	—	—	2	µg/L	Y	U	UJ	11-2774	CAPA-11-22899	GELC
R-40 S2	849.27	07/08/11	WG	UF	INIT	FD	SVOC	SW-846:8270C	Pentachlorophenol	87-86-5	N	11.8	—	—	2.4	µg/L	N	U	UJ	11-2774	CAPA-11-22901	GELC
R-40 S2	849.27	07/08/11	WG	UF	RE	REG	SVOC	SW-846:8270C	Pentachlorophenol	87-86-5	N	11.1	—	—	2.2	µg/L	N	U	U	11-2774	CAPA-11-22899	GELC
R-40 S2	849.27	07/08/11	WG	UF	RE	FD	SVOC	SW-846:8270C	Pentachlorophenol	87-86-5	N	11.1	—	—	2.2	µg/L	Y	U	U	11-2774	CAPA-11-22901	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.255	—	—	0.05	µg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.293	—	—	0.05	µg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.269	—	—	0.05	µg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.277	—	—	0.05	µg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.295	—	—	0.05	µg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	04/26/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.257	—	—	0.05	µg/L	Y	—	NQ	11-2196	CAPA-11-9343	GELC
R-40 S2	849.27	04/26/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.261	—	—	0.05	µg/L	Y	—	NQ	11-2196	CAPA-11-9307	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0139	0.00922	0.0413	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0047	0.00576	0.024	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00556	0.0447	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00984	0.0061	0.043	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00911	0.013	0.02	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0111	0.00879	0.0365	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0141	0.00664	0.0368	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00393	0.0104	0.0531	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00683	0.004	0.042	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0056	0.033	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.44	—	—	0.05	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.44	—	—	0.05	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.61	—	—	0.05	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.52	—	—	0.05	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.42	—	—	0.05	mg/L	Y	—	J	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.49	—	—	0.05	mg/L	Y	—	J	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	26.8	32.2	44.1	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	25.6	15.1	63	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	29.2	17	62.2	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-10.6	21	79	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.6	18	57	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	66.6	—	—	0.053	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.2	—	—	0.053	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.9	—	—	0.053	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.6	—	—	0.053	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.5	—	—	0.053	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71	—	—	0.053	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.69	—	—	0.1	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.57	—	—	0.1	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.92	—	—	0.1	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.92	—	—	0.1	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.48	1.56	5.56	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1	1.57	5.55	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.62	1.6	6.51	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.14	1.7	6.4	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.44	1.3	3.5	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	117	—	—	3.63	uS/cm	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	1	uS/cm	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	1	uS/cm	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	1	uS/cm	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	uS/cm	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	51.9	—	—	1	µg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.5	—	—	1	µg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.6	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.4	—	—	1	µg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.1	—	—	1	µg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.5	—	—	1	µg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	Y	0.936	0.179	0.479	—	pCi/L	N	—	R	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	10/17/14	WG	UF	RE	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.449	0.157	0.492	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.213	0.149	0.499	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0534	0.135	0.499	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.113	0.14	0.49	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.461	0.16	0.47	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.14	—	—	0.133	mg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	10.5	—	—	0.133	mg/L	N	—	R	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	12/03/13	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.04	—	—	0.133	mg/L	Y	H	NQ	2014-2591	CAPA-14-49411	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-40 S2	849.27	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.12	—	—	0.133	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2	—	—	0.1	mg/L	Y	—	J+	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.96	—	—	0.1	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.95	—	—	0.1	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107	—	—	3.4	mg/L	Y	—	J	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	127	—	—	3.4	mg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	97.1	—	—	3.4	mg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	J	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0427	—	—	0.033	mg/L	Y	J	J	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.5	—	—	0.175	mg/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	11-2774	CAPA-11-22899	GELC
R-40 S2	849.27	07/08/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	1	—	—	0.35	mg/L	Y	U	UJ	11-2774	CAPA-11-22901	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.458	0.707	2.424	—	pCi/L	Y	U	U	2015-120	CAPA-14-87191	ARSL
R-40 S2	849.27	04/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.57	0.62	2.04	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57740	ARSL
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.783	0.998	2.917	—	pCi/L	Y	U	U	2014-2606	CAPA-14-49385	ARSL
R-40 S2	849.27	04/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.769	0.65	2.124	—	pCi/L	Y	U	U	2013-738	CAPA-13-29569	ARSL
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-2.152	0.744	2.418	—	pCi/L	Y	U	U	2013-74	CAPA-12-23804	ARSL
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.333	—	—	0.067	µg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.233	—	—	0.067	µg/L	Y	—	NQ	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.312	—	—	0.067	µg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.272	—	—	0.067	µg/L	Y	—	NQ	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.27	—	—	0.067	µg/L	Y	—	NQ	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.284	—	—	0.067	µg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.28	0.0345	0.0948	—	pCi/L	Y	—	NQ	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.223	0.0242	0.0509	—	pCi/L	Y	—	NQ	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.214	0.0242	0.0376	—	pCi/L	Y	—	NQ	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.174	0.028	0.051	—	pCi/L	Y	—	NQ	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.255	0.035	0.093	—	pCi/L	Y	—	NQ	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00637	0.01	0.0668	—	pCi/L	Y	U	U	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0031	0.00694	0.032	—	pCi/L	Y	U	U	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00528	0.00747	0.0273	—	pCi/L	Y	U	U	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0151	0.0076	0.038	—	pCi/L	Y	U	U	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00396	0.0069	0.044	—	pCi/L	Y	U	U	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0949	0.0211	0.0509	—	pCi/L	Y	—	NQ	2015-104	CAPA-14-87191	GELC
R-40 S2	849.27	12/03/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0954	0.0167	0.027	—	pCi/L	Y	—	NQ	2014-2591	CAPA-14-49385	GELC
R-40 S2	849.27	10/12/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.0178	0.0256	—	pCi/L	Y	—	NQ	2013-70	CAPA-12-23804	GELC
R-40 S2	849.27	10/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0915	0.02	0.06	—	pCi/L	Y	—	NQ	12-133	CAPA-12-1150	GELC
R-40 S2	849.27	07/27/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.112	0.021	0.056	—	pCi/L	Y	—	NQ	10-3850	CAPA-10-24145	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.15	—	—	1	µg/L	Y	—	NQ	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.57	—	—	1	µg/L	Y	J	J	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.38	—	—	1	µg/L	Y	—	NQ	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.63	—	—	1	µg/L	Y	J	J	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.99	—	—	1	µg/L	Y	J	J	11-2775	CAPA-11-22902	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.1	—	—	1	µg/L	Y	—	NQ	11-2775	CAPA-11-22903	GELC
R-40 S2	849.27	10/17/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.96	—	—	3.3	µg/L	Y	J	J	2015-104	CAPA-14-87217	GELC
R-40 S2	849.27	12/03/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.3	—	—	3.3	µg/L	Y	J	J	2014-2591	CAPA-14-49411	GELC
R-40 S2	849.27	10/12/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-70	CAPA-12-23831	GELC
R-40 S2	849.27	10/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-133	CAPA-12-1149	GELC
R-40 S2	849.27	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.5	—	—	3.3	µg/L	Y	J	J	11-2775	CAPA-11-22902	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-40 S2	849.27	07/08/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2775	CAPA-11-22903	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.79	—	—	0.01	SU	Y	H	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.7	—	—	0.01	SU	Y	H	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.76	—	—	0.01	SU	Y	H	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.69	—	—	0.01	SU	Y	H	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.56	—	—	0.01	SU	Y	H	J-	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.66	—	—	0.01	SU	Y	H	J-	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	116	—	—	0.725	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	132	—	—	0.725	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	122	—	—	0.725	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	120	—	—	0.725	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	110	—	—	0.73	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.2	—	—	0.73	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.161	—	—	0.017	mg/L	Y	—	J	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.207	—	—	0.017	mg/L	Y	—	J-	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.194	—	—	0.017	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.189	—	—	0.017	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.103	—	—	0.016	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.122	—	—	0.016	mg/L	Y	—	J-	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	23.8	—	—	1	µg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.9	—	—	1	µg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.8	—	—	1	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.5	—	—	1	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.7	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.8	—	—	1	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19.7	—	—	15	µg/L	Y	J	J	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.8	—	—	1	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	19.7	—	—	15	µg/L	Y	J	J	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	16.6	—	—	15	µg/L	Y	J	J	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	15.8	—	—	15	µg/L	Y	J	J	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	16.9	—	—	15	µg/L	Y	J	J	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0671	—	—	0.067	mg/L	Y	J	J	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	N	0.2	—	—	0.067	mg/L	Y	U	U	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.0709	—	—	0.066	mg/L	Y	J	J	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Bromide	Br(-1)	Y	0.078	—	—	0.066	mg/L	Y	J	J	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	20.3	—	—	0.05	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	20.3	—	—	0.05	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.2	—	—	0.05	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.5	—	—	0.05	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.9	—	—	0.05	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.9	—	—	0.05	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.55	—	—	0.067	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.48	—	—	0.067	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.67	—	—	0.067	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.36	—	—	0.067	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.29	—	—	0.066	mg/L	Y	—	J-	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.38	—	—	0.066	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.332	—	—	0.033	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.315	—	—	0.033	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.331	—	—	0.033	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.338	—	—	0.033	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.223	—	—	0.033	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	88.9	—	—	0.453	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	88.7	—	—	0.453	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84	—	—	0.453	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	84.5	—	—	0.453	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	85.4	—	—	0.45	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	81.1	—	—	0.35	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Iron	Fe	Y	561	—	—	30	µg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	655	—	—	30	µg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	725	—	—	30	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	626	—	—	30	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	560	—	—	30	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Iron	Fe	Y	1190	—	—	30	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	9.25	—	—	0.11	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	9.21	—	—	0.11	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.77	—	—	0.11	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.71	—	—	0.11	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.68	—	—	0.11	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	8.26	—	—	0.085	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	258	—	—	2	µg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	276	—	—	2	µg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	282	—	—	2	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	245	—	—	2	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	217	—	—	2	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	340	—	—	2	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	14.2	—	—	0.165	µg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	14.3	—	—	0.165	µg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	12.1	—	—	0.165	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	13.7	—	—	0.165	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	14.8	—	—	0.17	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	18.3	—	—	0.1	µg/L	Y	E	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2.24	—	—	0.05	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.23	—	—	0.05	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.1	—	—	0.05	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.13	—	—	0.05	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	2.22	—	—	0.05	mg/L	Y	—	J	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.87	—	—	0.05	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	54.2	—	—	0.053	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	56	—	—	0.053	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55.2	—	—	0.053	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	57	—	—	0.053	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	55	—	—	0.053	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	49.4	—	—	0.053	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	21	—	—	0.1	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.7	—	—	0.1	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.9	—	—	0.1	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	18.1	—	—	0.1	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	19.1	—	—	0.1	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	20.8	—	—	0.1	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	236	—	—	3.63	uS/cm	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	251	—	—	1	uS/cm	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	302	—	—	1	uS/cm	Y	—	NQ	2013-774	CAPA-13-30298	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	240	—	—	1	uS/cm	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	234	—	—	1	uS/cm	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	251	—	—	1	uS/cm	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	102	—	—	1	µg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	99.7	—	—	1	µg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	95.1	—	—	1	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	96.1	—	—	1	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	103	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	95.9	—	—	1	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	12.2	—	—	0.133	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.7	—	—	0.133	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.99	—	—	0.133	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.89	—	—	0.133	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.12	—	—	0.1	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.18	—	—	0.1	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	154	—	—	3.4	mg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	116	—	—	9.52	mg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	170	—	—	3.4	mg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	3.4	mg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	167	—	—	3.4	mg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	164	—	—	4.8	mg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.153	—	—	0.033	mg/L	Y	—	NQ	2015-172	CAPA-14-87192	GELC
R-40 Si	649.67	12/11/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.131	—	—	0.033	mg/L	Y	—	U	2014-2659	CAPA-14-49386	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.14	—	—	0.033	mg/L	Y	—	NQ	2013-774	CAPA-13-30295	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.165	—	—	0.033	mg/L	Y	—	NQ	2013-774	CAPA-13-30300	GELC
R-40 Si	649.67	11/01/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-251	CAPA-12-1124	GELC
R-40 Si	649.67	10/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.252	—	—	0.033	mg/L	Y	—	J	11-222	CAPA-10-26917	GELC
R-40 Si	649.67	10/28/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	7.93	—	—	1.65	mg/L	Y	—	J-	2015-172	CAPA-14-87192	GELC
R-40 Si	649.67	12/11/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	7.74	—	—	0.66	mg/L	Y	—	NQ	2014-2659	CAPA-14-49386	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	9.32	—	—	0.33	mg/L	Y	—	NQ	2013-774	CAPA-13-30295	GELC
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	8.24	—	—	0.33	mg/L	Y	—	NQ	2013-774	CAPA-13-30300	GELC
R-40 Si	649.67	11/01/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	8.77	—	—	0.33	mg/L	Y	—	NQ	12-251	CAPA-12-1124	GELC
R-40 Si	649.67	10/20/10	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	13.5	—	—	1.7	mg/L	Y	—	NQ	11-222	CAPA-10-26917	GELC
R-40 Si	649.67	10/28/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.321	0.953	3.218	—	pCi/L	Y	U	U	2015-182	CAPA-14-87192	ARSL
R-40 Si	649.67	04/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.476	1.106	3.787	—	pCi/L	Y	U	U	2014-3216	CAPA-14-57741	ARSL
R-40 Si	649.67	12/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.197	0.626	2.116	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49386	ARSL
R-40 Si	649.67	04/24/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.344	0.686	2.138	—	pCi/L	Y	U	U	2013-769	CAPA-13-29570	ARSL
R-40 Si	649.67	10/22/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.431	0.679	2.094	—	pCi/L	Y	U	U	2013-217	CAPA-12-23805	ARSL
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.351	—	—	0.067	µg/L	Y	—	NQ	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.312	—	—	0.067	µg/L	Y	—	NQ	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.222	—	—	0.067	µg/L	Y	—	NQ	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.499	—	—	0.067	µg/L	Y	—	NQ	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.809	—	—	0.067	µg/L	Y	—	NQ	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.369	—	—	0.05	µg/L	Y	—	NQ	11-223	CAPA-10-26919	GELC
R-40 Si	649.67	10/28/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.36	—	—	3.3	µg/L	Y	J	J	2015-172	CAPA-14-87218	GELC
R-40 Si	649.67	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2659	CAPA-14-49412	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-774	CAPA-13-30298	GELC
R-40 Si	649.67	04/24/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-774	CAPA-13-30301	GELC
R-40 Si	649.67	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-252	CAPA-12-1123	GELC
R-40 Si	649.67	10/20/10	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-223	CAPA-10-26919	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.16	—	—	0.01	SU	Y	H	NQ	2013-66	CAPA-12-23833	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	J-	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	J-	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.3	—	—	0.725	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.3	—	—	0.725	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.7	—	—	0.725	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.9	—	—	0.73	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	69.4	—	—	0.73	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0287	0.00956	0.0303	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00235	0.0108	0.0307	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0152	0.00804	0.0258	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00293	0.0051	0.046	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0057	0.0032	0.037	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0707	—	—	0.017	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0773	—	—	0.017	mg/L	Y	—	U	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0292	—	—	0.017	mg/L	Y	J	U	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.76	—	—	1.7	µg/L	Y	J	J	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.76	—	—	1.7	µg/L	Y	J	J	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.8	—	—	1	µg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.6	—	—	1	µg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.6	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	25.5	—	—	1	µg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.1	—	—	1	µg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	15.2	—	—	0.05	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.5	—	—	0.05	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.5	—	—	0.05	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15	—	—	0.05	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	15.6	—	—	0.05	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.11	1.84	5.66	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.54	2.15	3.92	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.04	1.77	6.08	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.27	1.3	5.1	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.75	1.7	5.1	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.28	—	—	0.067	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.37	—	—	0.067	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.07	—	—	0.067	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.01	—	—	0.066	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.11	—	—	0.066	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.02	—	—	2	µg/L	Y	J	J	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	2.96	—	—	2	µg/L	Y	J	U	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.11	—	—	2	µg/L	Y	J	J	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.09	—	—	2	µg/L	Y	J	J	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.67	1.53	4.88	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.56	0.976	3.9	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.2	1.88	7.28	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.14	1.4	5.7	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.584	1.6	5.5	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.321	—	—	0.033	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.298	—	—	0.033	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.295	—	—	0.033	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.346	—	—	0.033	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.33	—	—	0.033	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0537	0.511	1.77	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.413	0.35	1.18	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.45	0.754	2.13	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.88	0.58	3	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.484	0.69	2.7	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.77	0.848	2.38	—	pCi/L	Y	—	NQ	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.05	0.742	2.47	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.91	0.899	2.61	—	pCi/L	Y	—	NQ	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.83	1.1	2.9	—	pCi/L	Y	—	NQ	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.34	0.88	2.7	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.1	—	—	0.453	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.9	—	—	0.453	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.4	—	—	0.453	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.8	—	—	0.45	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.8	—	—	0.45	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.14	—	—	0.11	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.2	—	—	0.11	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.95	—	—	0.11	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.96	—	—	0.11	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.07	—	—	0.11	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.06	—	—	0.165	µg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.38	—	—	0.165	µg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.49	—	—	0.165	µg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	3.42	—	—	0.17	µg/L	Y	—	J	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.82	—	—	0.17	µg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.02	2.9	10.7	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.168	2.1	7.45	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.85	2.96	10.1	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.74	3	9.4	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.38	3.3	11	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.93	—	—	0.5	µg/L	Y	J	J	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.36	—	—	0.5	µg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	3.43	—	—	0.5	µg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	5.13	—	—	0.5	µg/L	Y	—	J	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.62	—	—	0.5	µg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.756	—	—	0.017	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.818	—	—	0.017	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.733	—	—	0.017	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.785	—	—	0.05	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.71	—	—	0.05	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.405	—	—	0.05	µg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.395	—	—	0.05	µg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.385	—	—	0.05	µg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.403	—	—	0.05	µg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	04/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.375	—	—	0.05	µg/L	Y	—	NQ	11-2142	CAPA-11-9357	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0042	0.00514	0.0312	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0026	0.00689	0.0265	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00189	0.00568	0.0215	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0022	0.038	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	4.23E-10	0.0071	0.032	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0042	0.0042	0.0275	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0026	0.00582	0.0407	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00757	0.00464	0.0256	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00867	0.0044	0.037	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	2.12E-10	0.005	0.052	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.85	—	—	0.05	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.94	—	—	0.05	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.83	—	—	0.05	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.86	—	—	0.05	mg/L	Y	—	J	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.8	—	—	0.05	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.65	15.1	58.2	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-38.5	13.9	46.5	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-10.6	19.4	75.4	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.6	20	73	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22.8	21	67	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	65.6	—	—	0.053	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67	—	—	0.053	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.8	—	—	0.053	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.4	—	—	0.053	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.5	—	—	0.053	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.2	—	—	0.1	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.7	—	—	0.1	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.3	—	—	0.1	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.224	1.12	4.46	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.05	1.22	3.59	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.974	1.42	5.8	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.152	1.6	5.9	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.142	1.5	5	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	144	—	—	3.63	uS/cm	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	160	—	—	1	uS/cm	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	158	—	—	1	uS/cm	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	155	—	—	1	uS/cm	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	157	—	—	1	uS/cm	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	74.5	—	—	1	µg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	79	—	—	1	µg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	75.2	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	75.6	—	—	1	µg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	74.5	—	—	1	µg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.27	0.11	0.469	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.229	0.0838	0.409	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.176	0.139	0.475	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.137	0.13	0.49	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0263	0.13	0.48	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.6	—	—	0.133	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.76	—	—	0.133	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.32	—	—	0.133	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.48	—	—	0.1	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.36	—	—	0.1	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	3.4	mg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-41 S2	965.3	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	127	—	—	3.4	mg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	3.4	mg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.741	0.679	2.331	—	pCi/L	Y	U	U	2015-135	CAPA-14-87193	ARSL
R-41 S2	965.3	07/09/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.615	0.638	2.107	—	pCi/L	Y	U	U	2014-3725	CAPA-14-81482	ARSL
R-41 S2	965.3	04/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.177	0.639	2.159	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57742	ARSL
R-41 S2	965.3	01/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.769	0.679	2.224	—	pCi/L	Y	U	U	2014-2799	CAPA-14-49711	ARSL
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.987	0.593	1.884	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49387	ARSL
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.408	—	—	0.067	µg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.469	—	—	0.067	µg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.468	—	—	0.067	µg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.539	—	—	0.067	µg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.492	—	—	0.067	µg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.343	0.0303	0.0636	—	pCi/L	Y	—	NQ	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.341	0.029	0.0479	—	pCi/L	Y	—	NQ	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.389	0.0316	0.0411	—	pCi/L	Y	—	J	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.335	0.042	0.055	—	pCi/L	Y	—	NQ	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.511	0.053	0.081	—	pCi/L	Y	—	NQ	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00936	0.00826	0.0445	—	pCi/L	Y	U	U	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00585	0.00585	0.0302	—	pCi/L	Y	U	U	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0145	0.00765	0.0299	—	pCi/L	Y	U	U	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00405	0.007	0.04	—	pCi/L	Y	U	U	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0104	0.006	0.038	—	pCi/L	Y	U	U	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.136	0.0192	0.0339	—	pCi/L	Y	—	NQ	2015-123	CAPA-14-87193	GELC
R-41 S2	965.3	12/10/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.0174	0.0254	—	pCi/L	Y	—	NQ	2014-2644	CAPA-14-49387	GELC
R-41 S2	965.3	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.161	0.02	0.028	—	pCi/L	Y	—	J	2013-66	CAPA-12-23806	GELC
R-41 S2	965.3	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.164	0.026	0.064	—	pCi/L	Y	—	NQ	12-170	CAPA-12-1182	GELC
R-41 S2	965.3	08/09/10	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.182	0.026	0.049	—	pCi/L	Y	—	NQ	10-4075	CAPA-10-24131	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.55	—	—	1	µg/L	Y	—	NQ	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	8.16	—	—	1	µg/L	Y	—	NQ	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.69	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.13	—	—	1	µg/L	Y	—	NQ	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.04	—	—	1	µg/L	Y	—	NQ	11-2846	CAPA-11-22906	GELC
R-41 S2	965.3	10/21/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.33	—	—	3.3	µg/L	Y	J	J	2015-123	CAPA-14-87219	GELC
R-41 S2	965.3	12/10/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.46	—	—	3.3	µg/L	Y	J	J	2014-2644	CAPA-14-49413	GELC
R-41 S2	965.3	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-66	CAPA-12-23833	GELC
R-41 S2	965.3	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-169	CAPA-12-1183	GELC
R-41 S2	965.3	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2846	CAPA-11-22906	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.9	—	—	0.01	SU	Y	H	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.93	—	—	0.01	SU	Y	H	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.99	—	—	0.01	SU	Y	H	J-	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	J-	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.3	—	—	0.725	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.7	—	—	0.725	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.6	—	—	0.725	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	67.4	—	—	0.73	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	68.3	—	—	0.73	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00727	0.0619	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00741	0.00524	0.0242	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00249	0.00432	0.034	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00664	0.0059	0.034	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00827	0.0065	0.028	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	18.2	—	—	1	µg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.1	—	—	1	µg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.1	—	—	1	µg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.6	—	—	1	µg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.4	—	—	1	µg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.6	—	—	0.05	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.3	—	—	0.05	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.2	—	—	0.05	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.5	—	—	0.05	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.6	—	—	0.05	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.834	1.57	5.84	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.05	1.33	4.3	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0761	1.34	4.82	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.839	1.2	4	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-6.32	2.3	7.7	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.09	—	—	0.067	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.99	—	—	0.067	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.7	—	—	0.067	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.67	—	—	0.066	mg/L	Y	—	J-	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.75	—	—	0.066	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.06	—	—	2	µg/L	Y	J	J	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	3.21	—	—	2	µg/L	Y	J	U	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.75	—	—	2	µg/L	Y	J	J	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	UJ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.66	1.74	7.32	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.39	1.13	3.89	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.049	1.28	5.05	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0691	1.1	4.3	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.09	1.9	6.6	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.247	—	—	0.033	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.277	—	—	0.033	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.277	—	—	0.033	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.305	—	—	0.033	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.291	—	—	0.033	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.214	0.664	2.81	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.09	0.842	2.9	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.316	0.548	2.68	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.72	0.94	2.8	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.964	0.7	2.4	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.83	0.559	1.62	—	pCi/L	Y	—	NQ	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.16	0.965	2.5	—	pCi/L	Y	—	NQ	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.9	0.755	2.38	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	4.83	1.1	2.5	—	pCi/L	Y	—	NQ	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.852	0.78	2.6	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.8	—	—	0.453	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.8	—	—	0.453	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	49.3	—	—	0.453	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.6	—	—	0.45	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.3	—	—	0.45	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.75	—	—	0.11	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.64	—	—	0.11	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.97	—	—	0.11	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.53	—	—	0.11	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.59	—	—	0.11	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.68	—	—	0.165	µg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.74	—	—	0.165	µg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.07	—	—	0.165	µg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.9	—	—	0.17	µg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.93	—	—	0.17	µg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.305	3.52	12.5	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.32	2.07	7.13	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.674	2.58	9.29	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.6	2.4	8.2	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	01/19/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.44	2.4	8	—	pCi/L	Y	U	U	11-1142	CAPA-11-3036	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.536	—	—	0.5	µg/L	Y	J	J	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.08	—	—	0.5	µg/L	Y	J	J	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.43	—	—	0.5	µg/L	Y	J	J	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.929	—	—	0.5	µg/L	Y	J	J	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.612	—	—	0.5	µg/L	Y	J	J-	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.603	—	—	0.017	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.611	—	—	0.017	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.56	—	—	0.085	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.63	—	—	0.05	mg/L	Y	—	J	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.515	—	—	0.05	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.315	—	—	0.05	µg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.277	—	—	0.05	µg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.311	—	—	0.05	µg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.293	—	—	0.05	µg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	05/02/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.29	—	—	0.05	µg/L	Y	—	NQ	11-2263	CAPA-11-9367	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00272	0.0044	0.0301	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00698	0.0052	0.0237	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00544	0.0437	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0124	0.0089	0.043	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00232	0.0052	0.035	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00579	0.00612	0.0445	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00233	0.0052	0.0364	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00543	0.0519	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00247	0.0043	0.042	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00464	0.0073	0.048	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	2	—	—	0.05	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.76	—	—	0.05	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.7	—	—	0.05	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.66	—	—	0.05	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.69	—	—	0.05	mg/L	Y	—	J	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-13.2	20.1	75.7	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-18.4	13.9	50.3	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.89	23.3	49.6	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	22.5	25	46	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-32.4	20	64	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	64.6	—	—	0.053	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.4	—	—	0.053	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.5	—	—	0.053	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.2	—	—	0.053	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12.4	—	—	0.1	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.6	—	—	0.1	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	14.6	—	—	0.1	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13.8	—	—	0.1	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	15.1	—	—	0.1	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.41	1.61	5.85	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.633	0.961	3.53	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.61	1.26	4.37	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.576	1.2	4.9	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.35	1.6	4.9	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	144	—	—	3.63	uS/cm	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	153	—	—	1	uS/cm	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	146	—	—	1	uS/cm	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	149	—	—	1	uS/cm	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	151	—	—	1	uS/cm	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57.7	—	—	1	µg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56	—	—	1	µg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	59.6	—	—	1	µg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.8	—	—	1	µg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.6	—	—	1	µg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.163	0.126	0.491	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.152	0.14	0.48	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0472	0.127	0.436	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.329	0.13	0.48	—	pCi/L	Y	U	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.187	0.12	0.48	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.59	—	—	0.133	mg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.49	—	—	0.133	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.11	—	—	0.133	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.12	—	—	0.1	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.07	—	—	0.1	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	97.1	—	—	3.4	mg/L	Y	—	J	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	Y	0.0569	—	—	0.033	mg/L	Y	J	J	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.033	mg/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.5	—	—	0.175	mg/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	0.1	—	—	0.035	mg/L	Y	U	UJ	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:351.2	Total Kjeldahl Nitrogen	TKN	N	1	—	—	0.35	mg/L	Y	U	UJ	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.504	—	—	0.33	mg/L	Y	J	J-	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.693	—	—	0.33	mg/L	Y	J	J	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.83	—	—	0.33	mg/L	Y	J	J	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.726	—	—	0.33	mg/L	Y	J	J	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	1.2	—	—	0.33	mg/L	Y	—	NQ	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.37	0.792	2.717	—	pCi/L	Y	U	U	2015-182	CAPA-14-87194	ARSL
R-49 S1	845	04/18/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.413	0.641	2.142	—	pCi/L	Y	U	U	2014-3281	CAPA-14-57743	ARSL
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.053	0.596	2.03	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49388	ARSL
R-49 S1	845	04/15/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.356	0.704	2.366	—	pCi/L	Y	U	U	2013-738	CAPA-13-29572	ARSL
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.562	0.738	2.476	—	pCi/L	Y	U	U	2013-118	CAPA-12-23807	ARSL
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.591	—	—	0.067	µg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.662	—	—	0.067	µg/L	Y	—	NQ	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.757	—	—	0.067	µg/L	Y	—	NQ	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.747	—	—	0.067	µg/L	Y	—	NQ	12-195	CAPA-12-1151	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.861	—	—	0.067	µg/L	Y	—	NQ	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.48	0.0336	0.0453	—	pCi/L	Y	—	NQ	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.541	0.039	0.0542	—	pCi/L	Y	—	NQ	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.653	0.0433	0.0478	—	pCi/L	Y	—	NQ	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.894	0.082	0.049	—	pCi/L	Y	—	NQ	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.729	0.071	0.066	—	pCi/L	Y	—	NQ	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0137	0.00907	0.0394	—	pCi/L	Y	U	U	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0199	0.0132	0.0341	—	pCi/L	Y	U	U	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0202	0.00951	0.0347	—	pCi/L	Y	U	U	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0363	0.013	0.036	—	pCi/L	Y	—	U	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0149	0.012	0.036	—	pCi/L	Y	U	U	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.179	0.0211	0.0434	—	pCi/L	Y	—	NQ	2015-163	CAPA-14-87194	GELC
R-49 S1	845	12/09/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.265	0.0287	0.0287	—	pCi/L	Y	—	NQ	2014-2641	CAPA-14-49388	GELC
R-49 S1	845	10/15/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.234	0.0258	0.0325	—	pCi/L	Y	—	NQ	2013-87	CAPA-12-23807	GELC
R-49 S1	845	10/26/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.494	0.052	0.057	—	pCi/L	Y	—	NQ	12-195	CAPA-12-1153	GELC
R-49 S1	845	07/08/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.265	0.035	0.04	—	pCi/L	Y	—	NQ	11-2778	CAPA-11-22697	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.33	—	—	1	µg/L	Y	J	J	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.76	—	—	1	µg/L	Y	J	J	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.58	—	—	1	µg/L	Y	J	J	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.92	—	—	1	µg/L	Y	J	J	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.73	—	—	1	µg/L	Y	J	J	11-2778	CAPA-11-22698	GELC
R-49 S1	845	10/27/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	14.6	—	—	3.3	µg/L	Y	—	NQ	2015-163	CAPA-14-87220	GELC
R-49 S1	845	12/09/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	5.25	—	—	3.3	µg/L	Y	J	U	2014-2641	CAPA-14-49414	GELC
R-49 S1	845	10/15/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.43	—	—	3.3	µg/L	Y	J	J	2013-87	CAPA-12-23834	GELC
R-49 S1	845	10/26/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.04	—	—	3.3	µg/L	Y	J	J	12-195	CAPA-12-1151	GELC
R-49 S1	845	07/08/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2778	CAPA-11-22698	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.97	—	—	0.01	SU	Y	H	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	J-	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	J-	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.7	—	—	0.725	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.3	—	—	0.725	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.1	—	—	0.725	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.9	—	—	0.73	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.9	—	—	0.73	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00744	0.00555	0.0518	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00935	0.00572	0.0375	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0124	0.0124	0.0472	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00865	0.0075	0.034	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.014	0.0092	0.015	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0664	—	—	0.017	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0395	—	—	0.017	mg/L	Y	J	U	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22	—	—	1	µg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.3	—	—	1	µg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.5	—	—	1	µg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.3	—	—	1	µg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	20.4	—	—	1	µg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.2	—	—	0.05	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.7	—	—	0.05	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.1	—	—	0.05	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13	—	—	0.05	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.3	—	—	0.05	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.08	1.6	5.52	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.3	1.85	5.88	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.543	1.3	4.65	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.467	1.4	5.4	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.49	1.4	4.5	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.62	—	—	0.067	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.61	—	—	0.067	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.54	—	—	0.067	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.4	—	—	0.066	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.45	—	—	0.066	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.4	—	—	2	µg/L	Y	J	J	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.434	1.82	6.76	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.109	1.92	6.84	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.91	1.52	5.45	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.17	1.6	7	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.06	1.6	5.3	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.282	—	—	0.033	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.24	—	—	0.033	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.289	—	—	0.033	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.301	—	—	0.033	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.278	—	—	0.033	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.561	0.329	1.27	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.399	0.506	2.23	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.899	0.682	2.35	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.31	0.79	2.5	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0848	0.55	2.5	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.109	0.705	2.61	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.463	0.295	0.971	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.924	0.855	2.9	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.518	0.66	2.3	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.29	0.88	2.9	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	48	—	—	0.453	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45.9	—	—	0.453	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.6	—	—	0.453	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.7	—	—	0.45	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.1	—	—	0.45	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.66	—	—	0.11	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.48	—	—	0.11	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.63	—	—	0.11	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.45	—	—	0.11	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.23	—	—	0.11	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.36	—	—	0.165	µg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.42	—	—	0.165	µg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.32	—	—	0.165	µg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.32	—	—	0.17	µg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.24	—	—	0.17	µg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	4.65	3.37	12.5	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.839	4.04	13.5	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-7.35	3.08	9.56	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.34	2.9	9.8	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2	2.6	8.2	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.797	—	—	0.017	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.792	—	—	0.017	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.69	—	—	0.017	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.67	—	—	0.05	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.725	—	—	0.05	mg/L	Y	—	J-	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.336	—	—	0.05	µg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.323	—	—	0.05	µg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.357	—	—	0.05	µg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.339	—	—	0.05	µg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	04/29/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.346	—	—	0.05	µg/L	Y	—	J+	11-2250	CAPA-11-9377	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.000941	0.00476	0.0239	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00788	0.00587	0.0226	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00523	0.00905	0.0502	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00264	0.0032	0.035	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00732	0.0086	0.031	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0201	0.00866	0.0354	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00263	0.00455	0.0544	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00522	0.00905	0.0834	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00286	0.0041	0.034	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0018	0.045	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.53	—	—	0.05	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.47	—	—	0.05	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.44	—	—	0.05	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.32	—	—	0.05	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.33	—	—	0.05	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.1	22.7	71.2	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-23.1	20.6	71.7	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.26	18.4	68.1	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-30.6	17	61	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-28.3	18	58	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.4	—	—	0.053	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.9	—	—	0.053	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.6	—	—	0.053	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.7	—	—	0.053	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.1	—	—	0.053	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.72	—	—	0.1	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.915	1.72	6.79	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.02	1.74	6	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.2	1.56	5.14	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.48	1.6	5.1	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.53	1.5	5.2	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	137	—	—	3.63	uS/cm	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	1	uS/cm	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	139	—	—	1	uS/cm	Y	—	NQ	2013-234	CAPA-12-23835	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	133	—	—	1	uS/cm	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	134	—	—	1	uS/cm	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	59	—	—	1	µg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58.1	—	—	1	µg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	59.4	—	—	1	µg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58.2	—	—	1	µg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	54.8	—	—	1	µg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0531	0.123	0.412	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.168	0.102	0.366	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.238	0.148	0.488	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0951	0.14	0.48	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.185	0.12	0.48	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.69	—	—	0.133	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.73	—	—	0.133	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.73	—	—	0.133	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.49	—	—	0.1	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.46	—	—	0.1	mg/L	Y	—	J+	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	101	—	—	3.4	mg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	127	—	—	3.4	mg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.434	—	—	0.33	mg/L	Y	J	J-	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.554	—	—	0.33	mg/L	Y	J	J	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.891	—	—	0.33	mg/L	Y	J	J	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.458	—	—	0.33	mg/L	Y	J	J	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.077	0.936	3.182	—	pCi/L	Y	U	U	2015-182	CAPA-14-87195	ARSL
R-49 S2	905.6	04/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.02	0.62	2.1	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57744	ARSL
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.272	0.686	2.152	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49389	ARSL
R-49 S2	905.6	04/19/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.401	0.634	2.121	—	pCi/L	Y	U	U	2013-765	CAPA-13-29573	ARSL
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.569	0.825	2.581	—	pCi/L	Y	U	U	2013-253	CAPA-12-23808	ARSL
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.362	—	—	0.067	µg/L	Y	—	NQ	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.344	—	—	0.067	µg/L	Y	—	NQ	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.376	—	—	0.067	µg/L	Y	—	NQ	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.33	—	—	0.067	µg/L	Y	—	NQ	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.293	—	—	0.067	µg/L	Y	—	NQ	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.274	0.0272	0.0515	—	pCi/L	Y	—	NQ	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.223	0.0256	0.0346	—	pCi/L	Y	—	J	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.265	0.0409	0.109	—	pCi/L	Y	—	J	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.186	0.032	0.066	—	pCi/L	Y	—	NQ	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.232	0.026	0.034	—	pCi/L	Y	—	NQ	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00933	0.00823	0.0449	—	pCi/L	Y	U	U	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0069	0.0312	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0116	0.0116	0.068	—	pCi/L	Y	U	U	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0049	0.049	—	pCi/L	Y	U	U	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0185	0.0063	0.021	—	pCi/L	Y	U	U	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.126	0.0188	0.0493	—	pCi/L	Y	—	NQ	2015-149	CAPA-14-87195	GELC
R-49 S2	905.6	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.137	0.0207	0.0217	—	pCi/L	Y	—	J	2014-2682	CAPA-14-49389	GELC
R-49 S2	905.6	10/25/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.141	0.0274	0.0739	—	pCi/L	Y	—	J	2013-234	CAPA-12-23808	GELC
R-49 S2	905.6	10/27/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0993	0.021	0.078	—	pCi/L	Y	—	NQ	12-201	CAPA-12-1156	GELC
R-49 S2	905.6	07/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.016	0.026	—	pCi/L	Y	—	NQ	11-2926	CAPA-11-22909	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.83	—	—	1	µg/L	Y	J	J	2015-149	CAPA-14-87221	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.25	—	—	1	µg/L	Y	J	J	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.67	—	—	1	µg/L	Y	J	J	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.69	—	—	1	µg/L	Y	J	J	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.38	—	—	1	µg/L	Y	J	J	11-2926	CAPA-11-22908	GELC
R-49 S2	905.6	10/24/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.49	—	—	3.3	µg/L	Y	J	J	2015-149	CAPA-14-87221	GELC
R-49 S2	905.6	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2682	CAPA-14-49415	GELC
R-49 S2	905.6	10/25/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-234	CAPA-12-23835	GELC
R-49 S2	905.6	10/27/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-201	CAPA-12-1155	GELC
R-49 S2	905.6	07/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	11-2926	CAPA-11-22908	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.08	—	—	0.01	SU	Y	H	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	J-	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.02	—	—	0.01	SU	Y	H	J-	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	J-	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	J-	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	54.7	—	—	0.725	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.1	—	—	0.725	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59	—	—	0.725	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.5	—	—	0.73	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58	—	—	0.73	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.6	—	—	0.73	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.6	—	—	0.73	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00249	0.00658	0.0315	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00247	0.0082	0.0397	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0081	0.00604	0.0368	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00643	0.0037	0.035	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00562	0.0056	0.046	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00712	0.0098	0.013	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00186	0.0081	0.014	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.1	—	—	0.017	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.112	—	—	0.017	mg/L	Y	—	U	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0665	—	—	0.017	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0177	—	—	0.016	mg/L	Y	J	J+	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	2.94	—	—	1.7	µg/L	Y	J	J	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.2	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.4	—	—	1	µg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	25.1	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	119	—	—	1	µg/L	N	—	R	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	29	—	—	1	µg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	10/21/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	27.8	—	—	1	µg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	26.4	—	—	1	µg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	27.9	—	—	1	µg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.9	—	—	0.05	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.2	—	—	0.05	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.2	—	—	0.05	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.9	—	—	0.05	mg/L	N	—	R	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.7	—	—	0.05	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	10/21/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.9	—	—	0.05	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.7	—	—	0.05	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.5	—	—	0.05	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.132	0.871	3.23	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.37	1.17	4.37	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.47	1.6	5.41	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.06	1.6	6.5	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.203	1.5	5.7	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	4.51	1.9	7.5	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.14	1.4	4.8	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.96	—	—	0.067	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.96	—	—	0.067	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.97	—	—	0.066	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.93	—	—	0.066	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.97	—	—	0.066	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.97	—	—	0.066	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.36	—	—	2	µg/L	Y	J	J	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.69	—	—	2	µg/L	Y	J	J	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.09	—	—	2	µg/L	Y	J	J	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.57	—	—	2	µg/L	Y	J	J	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	6.06	—	—	2	µg/L	Y	J	U	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	5.79	—	—	2	µg/L	Y	J	U	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.235	0.955	3.54	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.739	1.1	4.01	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.676	1.43	5.41	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.265	1.9	7.1	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.55	1.4	4.8	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.172	1.7	5.6	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.57	1.6	6.3	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Fluoranthene	206-44-0	Y	0.067	—	—	0.0131	µg/L	N	—	R	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	10/22/14	WG	UF	RE	REG	SVOC	SW-846:8310	Fluoranthene	206-44-0	N	0.0435	—	—	0.0139	µg/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	SVOC	SW-846:8310	Fluoranthene	206-44-0	N	0.0521	—	—	0.0167	µg/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1.06	—	—	0.319	µg/L	N	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/10/12	WG	UF	RE	REG	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1.05	—	—	0.316	µg/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1.06	—	—	0.32	µg/L	Y	U	U	12-146	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1	—	—	0.3	µg/L	Y	U	U	12-146	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1	—	—	0.3	µg/L	Y	U	U	11-2972	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	SVOC	SW-846:8270C	Fluoranthene	206-44-0	N	1.08	—	—	0.32	µg/L	Y	U	U	11-2972	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.233	—	—	0.033	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.204	—	—	0.033	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.252	—	—	0.033	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.252	—	—	0.033	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.241	—	—	0.033	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.247	—	—	0.033	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.247	—	—	0.033	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.878	0.609	2.83	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.245	0.632	2.91	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.595	0.685	2.61	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.19	0.56	2.5	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.125	0.55	2.6	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.207	0.5	2.3	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0533	0.54	2.5	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.51	0.907	2.98	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.05	0.325	1.11	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.387	0.541	1.96	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.82	0.81	2.5	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.8	0.74	2.2	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.514	0.78	2.8	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.698	0.63	2.2	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.3	—	—	0.453	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.9	—	—	0.453	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.3	—	—	0.453	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.6	—	—	0.45	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.5	—	—	0.45	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.4	—	—	0.45	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.1	—	—	0.45	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Indeno(1,2,3-cd)pyrene	193-39-5	Y	0.0345	—	—	0.0131	µg/L	N	J	R	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	10/22/14	WG	UF	RE	REG	SVOC	SW-846:8310	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.0435	—	—	0.0139	µg/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	SVOC	SW-846:8310	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.0521	—	—	0.0167	µg/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1.06	—	—	0.319	µg/L	N	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/10/12	WG	UF	RE	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1.05	—	—	0.316	µg/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1.06	—	—	0.32	µg/L	Y	U	UJ	12-146	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1	—	—	0.3	µg/L	Y	U	UJ	12-146	CAPA-12-1160	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1.06	—	—	0.32	µg/L	Y	U	UJ	12-146	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	1	—	—	0.3	µg/L	Y	U	UJ	12-146	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.34	—	—	0.3	µg/L	Y	J	U	11-2972	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	SVOC	SW-846:8270C	Indeno(1,2,3-cd)pyrene	193-39-5	N	0.484	—	—	0.32	µg/L	Y	J	U	11-2972	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.7	—	—	0.11	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.69	—	—	0.11	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.76	—	—	0.11	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.35	—	—	0.11	mg/L	N	—	R	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.85	—	—	0.11	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	10/21/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.82	—	—	0.11	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.7	—	—	0.11	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.89	—	—	0.11	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.22	—	—	0.165	µg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.26	—	—	0.165	µg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.26	—	—	0.165	µg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.63	—	—	0.17	µg/L	Y	—	J	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.74	—	—	0.17	µg/L	Y	—	J	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.27	—	—	0.17	µg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.21	—	—	0.17	µg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.823	1.91	6.87	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.37	2.85	8.09	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.954	2.82	10.3	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.48	2.9	9.5	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-5.94	3.6	12	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.45	3.6	11	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.365	2.5	8.3	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.342	—	—	0.017	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.396	—	—	0.017	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.32	—	—	0.017	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.328	—	—	0.05	mg/L	Y	—	U	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.32	—	—	0.05	mg/L	Y	—	U	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0254	—	—	0.01	mg/L	Y	J	J	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0254	—	—	0.01	mg/L	Y	J	J	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.269	—	—	0.05	µg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.268	—	—	0.05	µg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.272	—	—	0.05	µg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.277	—	—	0.05	µg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.264	—	—	0.05	µg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.265	—	—	0.05	µg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	05/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.264	—	—	0.05	µg/L	Y	—	NQ	11-2362	CAPA-11-9404	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00627	0.00512	0.0336	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0104	0.00733	0.0223	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00197	0.00342	0.0224	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00338	0.014	0.059	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00338	0.013	0.059	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0036	0.044	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0113	0.006	0.039	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00574	0.00836	0.0296	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00777	0.00859	0.0536	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0138	0.00654	0.0267	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0169	0.009	0.057	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0034	0.057	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00773	0.0077	0.063	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00453	0.0032	0.056	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.35	—	—	0.05	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.45	—	—	0.05	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.39	—	—	0.05	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	10.3	—	—	0.05	mg/L	N	—	R	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.49	—	—	0.05	mg/L	Y	—	J	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	10/21/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.44	—	—	0.05	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.57	—	—	0.05	mg/L	Y	—	J	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.57	—	—	0.05	mg/L	Y	—	J	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-30.6	14.3	50.7	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	16.8	13.8	55.6	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	8.64	19.3	75.8	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-3.72	19	77	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-15.1	21	78	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-47.8	23	67	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-6.82	18	59	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	SVOC	SW-846:8310	Pyrene	129-00-0	Y	0.0392	—	—	0.0131	µg/L	N	J	R	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	10/22/14	WG	UF	RE	REG	SVOC	SW-846:8310	Pyrene	129-00-0	N	0.0435	—	—	0.0139	µg/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	SVOC	SW-846:8310	Pyrene	129-00-0	N	0.0521	—	—	0.0167	µg/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1.06	—	—	0.319	µg/L	N	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/10/12	WG	UF	RE	REG	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1.05	—	—	0.316	µg/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1.06	—	—	0.32	µg/L	Y	U	UJ	12-146	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1	—	—	0.3	µg/L	Y	U	UJ	12-146	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1	—	—	0.3	µg/L	Y	U	U	11-2972	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	SVOC	SW-846:8270C	Pyrene	129-00-0	N	1.08	—	—	0.32	µg/L	Y	U	U	11-2972	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70	—	—	0.053	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.6	—	—	0.053	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76	—	—	0.053	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.6	—	—	0.053	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.1	—	—	0.053	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.5	—	—	0.053	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.8	—	—	0.053	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10	—	—	0.1	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	59.1	—	—	0.1	mg/L	N	—	R	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	10/21/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.6	—	—	0.1	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.195	1.21	3.68	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.979	1.05	4.32	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.27	1.37	4.69	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.49	1.6	5.7	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	0.269	1.3	5.4	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.19	2	6	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.804	1.4	4.5	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	111	—	—	3.63	uS/cm	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	uS/cm	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	1	uS/cm	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	1	uS/cm	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	49.9	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.4	—	—	1	µg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	54.4	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	83.5	—	—	1	µg/L	N	—	R	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	71.4	—	—	1	µg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	10/21/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	69.3	—	—	1	µg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	67	—	—	1	µg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	71.1	—	—	1	µg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.462	0.152	0.483	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.176	0.111	0.396	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.021	0.135	0.485	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.178	0.14	0.49	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.229	0.15	0.49	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0109	0.13	0.5	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.241	0.12	0.51	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.96	—	—	0.133	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.93	—	—	0.133	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.17	—	—	0.133	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.7	—	—	0.1	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.66	—	—	0.1	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.61	—	—	0.1	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.64	—	—	0.1	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	106	—	—	3.4	mg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107	—	—	3.4	mg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	121	—	—	3.4	mg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S1	914.96	07/28/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	121	—	—	3.4	mg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.378	—	—	0.33	mg/L	Y	J	J-	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.567	—	—	0.33	mg/L	Y	J	J	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.687	—	—	0.33	mg/L	Y	J	J	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.356	—	—	0.33	mg/L	Y	J	U	12-146	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	0.491	—	—	0.33	mg/L	Y	J	U	12-146	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2972	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2972	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.357	0.769	2.618	—	pCi/L	Y	U	U	2015-135	CAPA-14-87196	ARSL
R-51 S1	914.96	04/09/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.32	0.644	2.181	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57745	ARSL
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.727	0.703	2.103	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49390	ARSL
R-51 S1	914.96	04/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.499	0.641	2.135	—	pCi/L	Y	U	U	2013-792	CAPA-13-29574	ARSL
R-51 S1	914.96	04/25/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.715	0.628	2.058	—	pCi/L	Y	U	U	2013-792	CAPA-13-29531	ARSL
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.226	0.698	2.208	—	pCi/L	Y	U	U	2013-61	CAPA-12-23809	ARSL
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.241	—	—	0.067	µg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.208	—	—	0.067	µg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.233	—	—	0.067	µg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.261	—	—	0.067	µg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.253	—	—	0.067	µg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.247	—	—	0.067	µg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.241	—	—	0.067	µg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.148	0.0254	0.09	—	pCi/L	Y	—	J	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.159	0.0205	0.0299	—	pCi/L	Y	—	NQ	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.158	0.0219	0.04	—	pCi/L	Y	—	J	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.201	0.029	0.051	—	pCi/L	Y	—	NQ	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.159	0.027	0.054	—	pCi/L	Y	—	NQ	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.184	0.031	0.072	—	pCi/L	Y	—	NQ	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.198	0.034	0.083	—	pCi/L	Y	—	NQ	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.000567	0.0121	0.0634	—	pCi/L	Y	U	U	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00596	0.027	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00843	0.00843	0.029	—	pCi/L	Y	U	U	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00376	0.0053	0.037	—	pCi/L	Y	U	U	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.008	0.04	—	pCi/L	Y	U	U	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0061	0.044	—	pCi/L	Y	U	U	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.02	0.01	0.051	—	pCi/L	Y	U	U	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0993	0.02	0.0483	—	pCi/L	Y	—	NQ	2015-128	CAPA-14-87196	GELC
R-51 S1	914.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0772	0.0145	0.0188	—	pCi/L	Y	—	NQ	2014-2682	CAPA-14-49390	GELC
R-51 S1	914.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0682	0.0136	0.0272	—	pCi/L	Y	—	NQ	2013-60	CAPA-12-23809	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0821	0.017	0.059	—	pCi/L	Y	—	NQ	12-148	CAPA-12-1159	GELC
R-51 S1	914.96	10/21/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0933	0.019	0.063	—	pCi/L	Y	—	NQ	12-148	CAPA-12-1160	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0877	0.021	0.056	—	pCi/L	Y	—	NQ	11-2974	CAPA-11-22912	GELC
R-51 S1	914.96	07/28/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0891	0.021	0.064	—	pCi/L	Y	—	NQ	11-2974	CAPA-11-22913	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.97	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.69	—	—	1	µg/L	Y	—	NQ	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.38	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23836	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	10.6	—	—	1	µg/L	N	—	R	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.7	—	—	1	µg/L	Y	—	NQ	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	10/21/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.9	—	—	1	µg/L	Y	—	NQ	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.91	—	—	1	µg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.48	—	—	1	µg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S1	914.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	7.76	—	—	3.3	µg/L	Y	J	J	2015-128	CAPA-14-87222	GELC
R-51 S1	914.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2682	CAPA-14-49416	GELC
R-51 S1	914.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.97	—	—	3.3	µg/L	Y	J	J	2013-60	CAPA-12-23836	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S1	914.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	44.5	—	—	3.3	µg/L	N	—	R	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	10/21/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.66	—	—	3.3	µg/L	Y	J	J	12-147	CAPA-12-1162	GELC
R-51 S1	914.96	10/21/11	WG	F	RE	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-147	CAPA-12-1158	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.2	—	—	3.3	µg/L	Y	—	NQ	11-2973	CAPA-11-22910	GELC
R-51 S1	914.96	07/28/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	10.2	—	—	3.3	µg/L	Y	—	NQ	11-2973	CAPA-11-22914	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	—	—	0.01	SU	Y	H	J-	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.06	—	—	0.01	SU	Y	H	J-	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.7	—	—	0.725	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.7	—	—	0.725	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.7	—	—	0.725	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.5	—	—	0.725	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.6	—	—	0.73	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.7	—	—	0.73	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00256	0.00572	0.0324	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00504	0.00617	0.0319	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0137	0.00721	0.0366	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00306	0.00685	0.0418	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0071	0.0053	0.039	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00789	0.01	0.015	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0496	—	—	0.017	mg/L	Y	J	J	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0811	—	—	0.017	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.278	—	—	0.017	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	UJ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.02	—	—	1.7	µg/L	Y	J	J	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	Y	3.61	—	—	1.7	µg/L	Y	J	J	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	25.4	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	25.2	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	25.5	—	—	1	µg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.7	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.1	—	—	1	µg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	21.4	—	—	1	µg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.7	—	—	0.05	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.1	—	—	0.05	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.5	—	—	0.05	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.746	1.45	5.17	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.662	1.14	3.98	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.42	2.01	4.65	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.25	1.42	5.07	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.66	1.7	5.1	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.147	1.6	5.3	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.82	—	—	0.067	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.067	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.82	—	—	0.067	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.77	—	—	0.067	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.86	—	—	0.066	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.066	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.59	—	—	2	µg/L	Y	J	J	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.55	—	—	2	µg/L	Y	J	J	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.55	—	—	2	µg/L	Y	J	J	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	5.47	—	—	2	µg/L	Y	J	U	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.8	1.42	5.21	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.66	1.34	5.21	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.756	1.3	4.63	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.485	1.43	5.94	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.86	1.7	7	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.169	2	6.5	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.164	—	—	0.033	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.167	—	—	0.033	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.126	—	—	0.033	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.182	—	—	0.033	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.232	—	—	0.033	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.181	—	—	0.033	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.501	0.322	1.07	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.428	0.377	1.32	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.507	0.759	2.97	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.57	0.809	2.39	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.549	0.37	2.4	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.521	0.67	2.4	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-1.45	0.704	2.96	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.656	0.788	2.75	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.878	0.343	1.09	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.33	0.946	2.78	—	pCi/L	Y	—	NQ	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.81	1	2.7	—	pCi/L	Y	—	NQ	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.84	0.81	2.5	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.1	—	—	0.453	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.9	—	—	0.453	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.9	—	—	0.453	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.9	—	—	0.453	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.2	—	—	0.45	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	37.4	—	—	0.45	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.96	—	—	0.11	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.93	—	—	0.11	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.92	—	—	0.11	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.9	—	—	0.11	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.79	—	—	0.11	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.72	—	—	0.11	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.808	—	—	0.165	µg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.765	—	—	0.165	µg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.8	—	—	0.165	µg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.834	—	—	0.165	µg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.3	—	—	0.17	µg/L	Y	—	J	12-152	CAPA-12-1166	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.97	—	—	0.17	µg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.06	2.59	8.94	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.14	2.37	7.93	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.614	2.77	9.56	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.0581	2.98	10.8	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.66	2.4	8.9	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.3	3.6	11	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.276	—	—	0.017	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.276	—	—	0.017	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.422	—	—	0.017	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.265	—	—	0.017	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.271	—	—	0.05	mg/L	Y	—	J	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.0381	—	—	0.01	mg/L	Y	J	J	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.279	—	—	0.05	µg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.274	—	—	0.05	µg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.264	—	—	0.05	µg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.267	—	—	0.05	µg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.271	—	—	0.05	µg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	05/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.261	—	—	0.05	µg/L	Y	—	NQ	11-2362	CAPA-11-9445	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.011	0.0087	0.0409	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00786	0.00869	0.039	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00259	0.0058	0.0223	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00693	0.00612	0.0263	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.000329	0.0073	0.052	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00402	0.0049	0.035	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0055	0.00674	0.0361	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00524	0.0105	0.0344	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00778	0.01	0.0537	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00654	0.0312	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00701	0.0068	0.05	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.004	0.049	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.57	—	—	0.05	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.57	—	—	0.05	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.53	—	—	0.05	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.75	—	—	0.05	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.66	—	—	0.05	mg/L	Y	—	J	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.73	—	—	0.05	mg/L	Y	—	J	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	38.4	15.7	64.2	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-38.8	18.2	47.7	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-7	15.7	58.9	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	0.807	20.7	84.7	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.2	20	67	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-53.3	21	56	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73.4	—	—	0.053	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	73	—	—	0.053	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72	—	—	0.053	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	79	—	—	0.053	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.2	—	—	0.053	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.2	—	—	0.053	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.2	—	—	0.1	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.5	—	—	0.1	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12	—	—	0.1	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.4	1.82	4.94	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0289	1.32	4.15	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.44	1.56	4.82	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.445	1.41	5.5	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.756	1	4.5	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.68	1.9	7.1	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	114	—	—	3.63	uS/cm	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	116	—	—	3.63	uS/cm	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	uS/cm	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	1	uS/cm	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	uS/cm	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	49.7	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	49.8	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	50.3	—	—	1	µg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.6	—	—	1	µg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.7	—	—	1	µg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.271	0.147	0.483	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.279	0.15	0.491	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00357	0.134	0.493	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0759	0.139	0.48	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0716	0.14	0.49	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0253	0.13	0.48	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0716	0.14	0.49	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0253	0.13	0.48	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.82	—	—	0.133	mg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.81	—	—	0.133	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.7	—	—	0.133	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.86	—	—	0.133	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.29	—	—	0.1	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.42	—	—	0.1	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	194	—	—	3.4	mg/L	N	—	R	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	113	—	—	3.4	mg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	10/22/14	WG	F	RE	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	103	—	—	3.4	mg/L	Y	H	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	110	—	—	3.4	mg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	124	—	—	3.4	mg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.602	—	—	0.33	mg/L	Y	J	J-	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	UJ	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.423	—	—	0.33	mg/L	Y	J	J	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.702	—	—	0.33	mg/L	Y	J	J	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.615	—	—	0.33	mg/L	Y	J	J	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2972	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.259	0.785	2.68	—	pCi/L	Y	U	U	2015-135	CAPA-14-87197	ARSL
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.268	0.686	2.33	—	pCi/L	Y	U	U	2015-135	CAPA-14-87153	ARSL
R-51 S2	1030.96	04/09/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.217	0.611	2.061	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57746	ARSL
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.736	0.651	2.132	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49391	ARSL
R-51 S2	1030.96	04/25/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.172	0.617	2.091	—	pCi/L	Y	U	U	2013-792	CAPA-13-29575	ARSL
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.344	0.683	2.291	—	pCi/L	Y	U	U	2013-61	CAPA-12-23810	ARSL
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.233	—	—	0.067	µg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.231	—	—	0.067	µg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.219	—	—	0.067	µg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.229	—	—	0.067	µg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.308	—	—	0.067	µg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.277	—	—	0.067	µg/L	Y	—	NQ	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.218	0.0292	0.0863	—	pCi/L	Y	—	NQ	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.113	0.0228	0.0919	—	pCi/L	Y	—	NQ	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.145	0.0222	0.0375	—	pCi/L	Y	—	NQ	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.164	0.0213	0.037	—	pCi/L	Y	—	NQ	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.137	0.035	0.078	—	pCi/L	Y	—	J+	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.175	0.033	0.094	—	pCi/L	Y	—	J+	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0227	0.0116	0.0608	—	pCi/L	Y	U	U	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0027	0.0103	0.0647	—	pCi/L	Y	U	U	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.00748	0.0106	0.0338	—	pCi/L	Y	U	U	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00781	0.00689	0.0269	—	pCi/L	Y	U	U	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0058	0.013	0.058	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00566	0.0098	0.058	—	pCi/L	Y	U	U	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0931	0.0211	0.0463	—	pCi/L	Y	—	NQ	2015-128	CAPA-14-87197	GELC
R-51 S2	1030.96	10/22/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0501	0.0166	0.0493	—	pCi/L	Y	—	NQ	2015-128	CAPA-14-87153	GELC
R-51 S2	1030.96	12/13/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.118	0.0198	0.0235	—	pCi/L	Y	—	NQ	2014-2682	CAPA-14-49391	GELC
R-51 S2	1030.96	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0695	0.0132	0.0252	—	pCi/L	Y	—	NQ	2013-60	CAPA-12-23810	GELC
R-51 S2	1030.96	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0329	0.023	0.092	—	pCi/L	Y	U	U	12-152	CAPA-12-1164	GELC
R-51 S2	1030.96	07/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.124	0.029	0.073	—	pCi/L	Y	—	J+	11-2974	CAPA-11-22928	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.4	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.26	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.22	—	—	1	µg/L	Y	—	NQ	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.53	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.04	—	—	1	µg/L	Y	—	NQ	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	N	5.65	—	—	1	µg/L	Y	—	U	11-2973	CAPA-11-22929	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.95	—	—	3.3	µg/L	Y	J	J	2015-128	CAPA-14-87223	GELC
R-51 S2	1030.96	10/22/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.43	—	—	3.3	µg/L	Y	J	J	2015-128	CAPA-14-87156	GELC
R-51 S2	1030.96	12/13/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2682	CAPA-14-49417	GELC
R-51 S2	1030.96	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.76	—	—	3.3	µg/L	Y	J	J	2013-60	CAPA-12-23837	GELC
R-51 S2	1030.96	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.25	—	—	3.3	µg/L	Y	J	J	12-152	CAPA-12-1166	GELC
R-51 S2	1030.96	07/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.03	—	—	3.3	µg/L	Y	J	J	11-2973	CAPA-11-22929	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.93	—	—	0.01	SU	Y	H	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.88	—	—	0.01	SU	Y	H	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.29	—	—	0.01	SU	Y	H	J-	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.28	—	—	0.01	SU	Y	H	J-	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.2	—	—	0.725	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.4	—	—	0.725	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.9	—	—	0.725	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.73	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.7	—	—	0.73	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0117	0.00827	0.037	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0157	0.00827	0.042	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0136	0.00814	0.037	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0021	0.0056	0.033	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0161	0.0093	0.02	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	30.2	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	31.7	—	—	1	µg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.3	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	31.1	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.6	—	—	1	µg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.6	—	—	0.05	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.5	—	—	0.05	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.1	—	—	0.05	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.6	—	—	0.05	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.4	—	—	0.05	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.83	2.15	4.77	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.91	1.4	4.4	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.757	1.15	4.46	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.02	1.3	4.9	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.06	2.2	6.9	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.84	—	—	0.067	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.79	—	—	0.067	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.64	—	—	0.067	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.42	—	—	0.066	mg/L	Y	—	J-	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.55	—	—	0.066	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.28	1.2	5.23	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.93	1.76	5.24	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.68	1.26	5.85	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.579	1.4	4.9	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-5.96	2.2	3.9	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.223	—	—	0.033	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.265	—	—	0.033	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.291	—	—	0.033	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.293	—	—	0.033	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.29	—	—	0.033	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.27	0.83	2.98	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.099	0.412	1.44	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.65	0.87	2.66	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.88	0.91	2.5	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.123	0.44	2.2	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.16	0.785	2.6	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.67	0.704	2.15	—	pCi/L	Y	—	NQ	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.84	0.717	2.18	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.24	0.69	2.2	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.344	0.76	2.7	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.6	—	—	0.453	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.1	—	—	0.453	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46	—	—	0.453	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	49.9	—	—	0.45	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.5	—	—	0.45	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.19	—	—	0.11	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.22	—	—	0.11	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.25	—	—	0.11	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.27	—	—	0.11	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.13	—	—	0.11	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.43	—	—	0.165	µg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.55	—	—	0.165	µg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.46	—	—	0.165	µg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.83	—	—	0.17	µg/L	Y	—	J	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.35	—	—	0.17	µg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.03	2.66	9.17	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.05	2.56	9	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.16	2.52	8.99	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.66	2.7	9.5	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	01/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.322	2.3	7.5	—	pCi/L	Y	U	U	11-1096	CAPA-11-3082	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.755	—	—	0.5	µg/L	Y	J	J	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.02	—	—	0.5	µg/L	Y	J	J	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.801	—	—	0.5	µg/L	Y	J	J	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.3	—	—	0.5	µg/L	Y	J	U	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.561	—	—	0.5	µg/L	Y	J	J	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.706	—	—	0.017	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.769	—	—	0.017	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.7	—	—	0.085	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.625	—	—	0.05	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.735	—	—	0.05	mg/L	Y	—	J-	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.421	—	—	0.05	µg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.369	—	—	0.05	µg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.39	—	—	0.05	µg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.419	—	—	0.05	µg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	05/04/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.377	—	—	0.05	µg/L	Y	—	NQ	11-2300	CAPA-11-9463	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00957	0.0503	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00447	0.0272	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00586	0.00586	0.0333	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0096	0.035	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0065	0.035	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0169	0.0232	0.0444	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00948	0.0105	0.0654	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00293	0.00655	0.0396	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00913	0.0068	0.048	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00205	0.0046	0.05	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.76	—	—	0.05	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.79	—	—	0.05	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.87	—	—	0.05	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.95	—	—	0.05	mg/L	Y	—	J	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.73	—	—	0.05	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-24.9	17.2	57.6	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.798	18	67.2	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.11	16.3	66.4	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.716	19	72	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.7	21	80	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.2	—	—	0.053	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71	—	—	0.053	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.8	—	—	0.053	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.9	—	—	0.053	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.1	—	—	0.053	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	12	—	—	0.1	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.8	—	—	0.1	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	13	—	—	0.1	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12.9	—	—	0.1	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.463	1.26	4.78	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.66	1.22	4.74	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.00901	1.14	4.48	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.26	1.3	4.3	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0739	1.7	5.5	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-52 S1	1035.2	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	3.63	uS/cm	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	143	—	—	1	uS/cm	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	uS/cm	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	153	—	—	1	uS/cm	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	1	uS/cm	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	53.8	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.6	—	—	1	µg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.3	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	67.5	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.2	—	—	1	µg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.35	0.121	0.387	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.171	0.116	0.489	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0247	0.125	0.475	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.266	0.12	0.49	—	pCi/L	Y	U	U	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.276	0.11	0.49	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.07	—	—	0.133	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.22	—	—	0.133	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.37	—	—	0.133	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.37	—	—	0.1	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.19	—	—	0.1	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	130	—	—	3.4	mg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	127	—	—	3.4	mg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	171	—	—	3.4	mg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	3.4	mg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.772	0.748	2.567	—	pCi/L	Y	U	U	2015-120	CAPA-14-87198	ARSL
R-52 S1	1035.2	04/10/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.578	0.636	2.105	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57747	ARSL
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.581	0.656	2.174	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49392	ARSL
R-52 S1	1035.2	04/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.136	0.69	2.34	—	pCi/L	Y	U	U	2013-738	CAPA-13-29576	ARSL
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.384	0.72	2.431	—	pCi/L	Y	U	U	2013-127	CAPA-12-23811	ARSL
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.434	—	—	0.067	µg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.386	—	—	0.067	µg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.437	—	—	0.067	µg/L	Y	—	U	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.388	—	—	0.067	µg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.396	—	—	0.067	µg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.273	0.032	0.0827	—	pCi/L	Y	—	NQ	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.291	0.0276	0.03	—	pCi/L	Y	—	NQ	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.258	0.0318	0.0526	—	pCi/L	Y	—	NQ	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.313	0.033	0.049	—	pCi/L	Y	—	NQ	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.268	0.033	0.048	—	pCi/L	Y	—	NQ	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.013	0.00923	0.0582	—	pCi/L	Y	U	U	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.015	0.00792	0.0271	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00739	0.00739	0.0382	—	pCi/L	Y	U	U	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0264	0.0082	0.026	—	pCi/L	Y	—	NQ	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0175	0.0083	0.03	—	pCi/L	Y	U	U	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.148	0.0245	0.0444	—	pCi/L	Y	—	J	2015-97	CAPA-14-87198	GELC
R-52 S1	1035.2	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.114	0.0173	0.0188	—	pCi/L	Y	—	NQ	2014-2662	CAPA-14-49392	GELC
R-52 S1	1035.2	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.132	0.0207	0.0358	—	pCi/L	Y	—	NQ	2013-157	CAPA-12-23811	GELC
R-52 S1	1035.2	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.147	0.02	0.022	—	pCi/L	Y	—	NQ	12-253	CAPA-12-1187	GELC
R-52 S1	1035.2	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.153	0.022	0.037	—	pCi/L	Y	—	NQ	11-2870	CAPA-11-22933	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.25	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.65	—	—	1	µg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.75	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23838	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.75	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.75	—	—	1	µg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S1	1035.2	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	3.49	—	—	3.3	µg/L	Y	J	J	2015-97	CAPA-14-87224	GELC
R-52 S1	1035.2	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	57.6	—	—	3.3	µg/L	Y	—	NQ	2014-2662	CAPA-14-49418	GELC
R-52 S1	1035.2	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.92	—	—	3.3	µg/L	Y	J	J	2013-157	CAPA-12-23838	GELC
R-52 S1	1035.2	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	7.08	—	—	3.3	µg/L	Y	J	J	12-252	CAPA-12-1186	GELC
R-52 S1	1035.2	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	12.4	—	—	3.3	µg/L	Y	—	NQ	11-2870	CAPA-11-22931	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.86	—	—	0.01	SU	Y	H	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.93	—	—	0.01	SU	Y	H	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.85	—	—	0.01	SU	Y	H	J-	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	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-	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.7	—	—	0.725	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.6	—	—	0.725	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.7	—	—	0.725	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.5	—	—	0.73	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60	—	—	0.73	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00649	0.00794	0.0411	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00252	0.00564	0.0405	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00989	0.007	0.0338	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00578	0.0043	0.03	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00278	0.0074	0.02	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	29.4	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.6	—	—	1	µg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	31.3	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.8	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.8	—	—	1	µg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.4	—	—	0.05	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.8	—	—	0.05	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.4	—	—	0.05	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.6	—	—	0.05	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.4	2.02	5.48	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0932	1.35	4.82	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.709	1.91	4.23	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.11	1.9	7.6	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.47	1.4	3.9	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.29	—	—	0.067	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.23	—	—	0.067	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.2	—	—	0.067	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.09	—	—	0.066	mg/L	Y	—	J-	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.18	—	—	0.066	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.55	1.83	6.69	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.45	1.13	4.75	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.05	1.2	4.25	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.13	1.6	7.4	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.724	1.6	4.9	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.16	—	—	0.033	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.192	—	—	0.033	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.233	—	—	0.033	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.235	—	—	0.033	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.232	—	—	0.033	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.756	0.72	2.53	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.284	0.378	1.3	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.506	0.556	2.14	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.14	0.7	2.1	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.603	0.61	2.3	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.7	0.867	2.73	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.472	0.65	2.28	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.761	0.52	1.74	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.73	0.82	2.6	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.35	0.78	2.4	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.7	—	—	0.453	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.6	—	—	0.453	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42	—	—	0.453	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.3	—	—	0.45	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.6	—	—	0.45	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.86	—	—	0.11	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.93	—	—	0.11	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.05	—	—	0.11	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.89	—	—	0.11	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.83	—	—	0.11	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.11	—	—	0.165	µg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.19	—	—	0.165	µg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.165	µg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.39	—	—	0.17	µg/L	Y	—	J	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.971	—	—	0.17	µg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.95	3.12	12	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.89	2.67	9.67	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.31	2.62	9.46	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.285	3.4	12	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	01/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.26	2.4	7.7	—	pCi/L	Y	U	U	11-1096	CAPA-11-3084	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.396	—	—	0.017	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.415	—	—	0.017	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.402	—	—	0.017	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.421	—	—	0.05	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.417	—	—	0.05	mg/L	Y	—	J-	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.314	—	—	0.05	µg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.29	—	—	0.05	µg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.305	—	—	0.05	µg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.33	—	—	0.05	µg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	05/04/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.31	—	—	0.05	µg/L	Y	—	NQ	11-2300	CAPA-11-9477	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00268	0.00464	0.0398	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00407	0.0122	0.035	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00252	0.00436	0.0286	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0033	0.014	0.038	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00865	0.01	0.037	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00268	0.00708	0.0351	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00407	0.0122	0.0843	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0101	0.00616	0.034	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0047	0.052	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00432	0.0043	0.053	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.63	—	—	0.05	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.76	—	—	0.05	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.91	—	—	0.05	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.8	—	—	0.05	mg/L	Y	—	J	12-252	CAPA-12-1190	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.67	—	—	0.05	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-13.3	18.3	73.1	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	3.27	20.6	37.7	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.08	17.2	66	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	27.9	21	100	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-1.7	20	69	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71	—	—	0.053	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.5	—	—	0.053	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	80.2	—	—	0.053	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.8	—	—	0.053	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.7	—	—	0.053	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	12	—	—	0.1	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.9	—	—	0.1	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-4.06	1.82	6.07	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0373	1.27	4.7	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.19	1.37	5.53	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.217	1.7	7.3	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.14	1.4	3.9	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	108	—	—	3.63	uS/cm	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	uS/cm	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	1	uS/cm	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	—	—	1	uS/cm	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	1	uS/cm	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	47.2	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.8	—	—	1	µg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.9	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.9	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	46.9	—	—	1	µg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.184	0.122	0.484	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.198	0.0869	0.309	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.355	0.15	0.486	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.205	0.12	0.49	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0349	0.13	0.49	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.43	—	—	0.133	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.41	—	—	0.133	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.53	—	—	0.133	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.68	—	—	0.1	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.62	—	—	0.1	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.219	0.746	2.548	—	pCi/L	Y	U	U	2015-120	CAPA-14-87199	ARSL
R-52 S2	1107	04/10/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.155	0.442	1.514	—	pCi/L	Y	U	U	2014-3211	CAPA-14-57748	ARSL
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.573	0.653	2.166	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49393	ARSL
R-52 S2	1107	04/11/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.161	0.619	2.095	—	pCi/L	Y	U	U	2013-738	CAPA-13-29577	ARSL
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.671	0.661	2.26	—	pCi/L	Y	U	U	2013-127	CAPA-12-23812	ARSL
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.334	—	—	0.067	µg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.312	—	—	0.067	µg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.326	—	—	0.067	µg/L	Y	—	U	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.268	—	—	0.067	µg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.274	—	—	0.067	µg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.209	0.032	0.0865	—	pCi/L	Y	—	NQ	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.233	0.0263	0.0344	—	pCi/L	Y	—	NQ	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.207	0.0244	0.0435	—	pCi/L	Y	—	NQ	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.235	0.026	0.044	—	pCi/L	Y	—	NQ	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.193	0.026	0.047	—	pCi/L	Y	—	NQ	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	-0.0256	0.0149	0.061	—	pCi/L	Y	U	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0103	0.00767	0.031	—	pCi/L	Y	U	U	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00917	0.00684	0.0316	—	pCi/L	Y	U	U	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00635	0.0048	0.023	—	pCi/L	Y	U	U	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0142	0.0064	0.029	—	pCi/L	Y	U	U	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	N	0.0537	0.0235	0.0464	—	pCi/L	Y	—	U	2015-97	CAPA-14-87199	GELC
R-52 S2	1107	12/11/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.125	0.019	0.0216	—	pCi/L	Y	—	NQ	2014-2662	CAPA-14-49393	GELC
R-52 S2	1107	10/16/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.109	0.0175	0.0296	—	pCi/L	Y	—	NQ	2013-157	CAPA-12-23812	GELC
R-52 S2	1107	11/01/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.105	0.016	0.019	—	pCi/L	Y	—	NQ	12-253	CAPA-12-1189	GELC
R-52 S2	1107	07/18/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.117	0.019	0.036	—	pCi/L	Y	—	NQ	11-2870	CAPA-11-22936	GELC
R-52 S2	1107	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	6.35	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87225	GELC
R-52 S2	1107	12/11/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	7.34	—	—	1	µg/L	Y	—	NQ	2014-2662	CAPA-14-49419	GELC
R-52 S2	1107	10/16/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.98	—	—	1	µg/L	Y	—	NQ	2013-157	CAPA-12-23839	GELC
R-52 S2	1107	11/01/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.25	—	—	1	µg/L	Y	—	NQ	12-252	CAPA-12-1190	GELC
R-52 S2	1107	07/18/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.79	—	—	1	µg/L	Y	—	NQ	11-2870	CAPA-11-22934	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	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-	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.02	—	—	0.01	SU	Y	H	J-	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.7	—	—	0.725	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.3	—	—	0.725	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.1	—	—	0.725	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	66.9	—	—	0.73	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.4	—	—	0.73	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0375	0.0375	0.261	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00636	0.0511	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0041	0.00502	0.028	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0164	0.0059	0.032	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00796	0.0069	0.015	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0289	—	—	0.017	mg/L	Y	J	J	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0344	—	—	0.017	mg/L	Y	J	U	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.0326	—	—	0.017	mg/L	Y	J	U	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	24.3	—	—	1	µg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.9	—	—	1	µg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.5	—	—	1	µg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.6	—	—	1	µg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.7	—	—	0.05	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11	—	—	0.05	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.6	—	—	0.05	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.897	1.56	5.29	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.12	1.21	3.85	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.22	1.63	6.27	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.535	1.2	4.6	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	3.86	1.7	6.4	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.99	—	—	0.067	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.94	—	—	0.067	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.78	—	—	0.067	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.78	—	—	0.066	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.81	—	—	0.066	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.53	—	—	2	µg/L	Y	J	J	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.68	—	—	2	µg/L	Y	J	J	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.172	1.43	5.48	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.805	0.989	3.52	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.157	1.61	6.16	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.402	1.5	5.7	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0599	1.7	5.7	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.192	—	—	0.033	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.24	—	—	0.033	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.241	—	—	0.033	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.267	—	—	0.033	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.274	—	—	0.033	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	Y	8.05	1.5	2.77	—	pCi/L	Y	—	NQ	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.469	0.259	0.836	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.78	0.92	2.19	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.213	0.67	3	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.75	0.78	1.8	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.44	0.577	1.88	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.5	0.711	2.52	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.53	0.734	2.33	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.12	0.99	2.8	—	pCi/L	Y	—	NQ	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	5.87	1.1	2.3	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.8	—	—	0.453	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.7	—	—	0.453	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.1	—	—	0.453	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39	—	—	0.45	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.6	—	—	0.45	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.16	—	—	0.11	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.2	—	—	0.11	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.17	—	—	0.11	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.03	—	—	0.11	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.06	—	—	0.11	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.11	—	—	0.165	µg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.26	—	—	0.17	µg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.18	—	—	0.17	µg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.93	2.35	7.78	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.64	2.04	7.29	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.38	3.12	11.8	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.39	2.4	8.9	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	01/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.273	2.1	7.3	—	pCi/L	Y	U	U	11-1105	CAPA-11-3089	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.39	—	—	0.017	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.737	—	—	0.017	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.348	—	—	0.017	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.356	—	—	0.05	mg/L	Y	—	J	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.342	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.282	—	—	0.05	µg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.238	—	—	0.05	µg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.3	—	—	0.05	µg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.286	—	—	0.05	µg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	05/06/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.287	—	—	0.05	µg/L	Y	—	NQ	11-2350	CAPA-11-9484	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0114	0.0302	0.153	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00414	0.00586	0.0178	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0106	0.00768	0.0242	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00693	0.0068	0.027	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00554	0.0099	0.032	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0456	0.0483	0.225	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00621	0.00621	0.0428	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00213	0.00476	0.0288	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00802	0.0044	0.027	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00553	0.0032	0.045	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.58	—	—	0.05	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.7	—	—	0.05	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.71	—	—	0.05	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.68	—	—	0.05	mg/L	Y	—	J	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.56	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-8.05	16.1	56.8	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-19.2	14.5	51.4	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	35.4	14.4	63.8	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-3.34	16	62	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-21.2	22	71	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	67.6	—	—	0.053	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.7	—	—	0.053	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.6	—	—	0.053	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.3	—	—	0.053	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.9	—	—	0.1	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.579	1.22	4.62	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.93	0.914	4.01	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0302	1.1	4.51	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.28	1	3.4	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.46	1.5	4.9	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	114	—	—	3.63	uS/cm	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	1	uS/cm	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	125	—	—	1	uS/cm	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	uS/cm	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	46.4	—	—	1	µg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	48.2	—	—	1	µg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.3	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.3	—	—	1	µg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.2	—	—	1	µg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00479	0.139	0.491	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.124	0.0936	0.329	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.39	0.161	0.496	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.253	0.13	0.48	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0757	0.12	0.42	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.86	—	—	0.133	mg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.83	—	—	0.133	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.75	—	—	0.133	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.86	—	—	0.1	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.82	—	—	0.1	mg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	101	—	—	3.4	mg/L	Y	—	J	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	127	—	—	3.4	mg/L	Y	—	J	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.338	—	—	0.33	mg/L	Y	J	J-	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.568	—	—	0.33	mg/L	Y	J	J	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.787	—	—	0.33	mg/L	Y	J	J	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.521	—	—	0.33	mg/L	Y	J	J	12-176	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2835	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.45	0.721	2.479	—	pCi/L	Y	U	U	2015-182	CAPA-14-87200	ARSL
R-53 S1	849.2	04/02/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.712	1.043	3.582	—	pCi/L	Y	U	U	2014-3113	CAPA-14-57749	ARSL
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.475	0.7	2.156	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49394	ARSL
R-53 S1	849.2	04/08/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.133	0.714	2.28	—	pCi/L	Y	U	U	2013-710	CAPA-13-29578	ARSL
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.905	0.74	2.44	—	pCi/L	Y	U	U	2013-74	CAPA-12-23813	ARSL
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.446	—	—	0.067	µg/L	Y	—	NQ	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.462	—	—	0.067	µg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.447	—	—	0.067	µg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.456	—	—	0.067	µg/L	Y	—	NQ	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.445	—	—	0.067	µg/L	Y	—	NQ	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.359	0.0314	0.0533	—	pCi/L	Y	—	NQ	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.279	0.0281	0.0333	—	pCi/L	Y	—	J	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.329	0.0317	0.0499	—	pCi/L	Y	—	NQ	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.358	0.042	0.05	—	pCi/L	Y	—	NQ	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.238	0.03	0.058	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0193	0.00909	0.0464	—	pCi/L	Y	U	U	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0133	0.0105	0.03	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0105	0.00929	0.0362	—	pCi/L	Y	U	U	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0037	0.037	—	pCi/L	Y	U	U	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00973	0.0057	0.031	—	pCi/L	Y	U	U	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.203	0.0233	0.051	—	pCi/L	Y	—	NQ	2015-151	CAPA-14-87200	GELC
R-53 S1	849.2	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.169	0.022	0.0209	—	pCi/L	Y	—	J	2014-2671	CAPA-14-49394	GELC
R-53 S1	849.2	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.148	0.0212	0.034	—	pCi/L	Y	—	NQ	2013-66	CAPA-12-23813	GELC
R-53 S1	849.2	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.153	0.024	0.059	—	pCi/L	Y	—	NQ	12-178	CAPA-12-1192	GELC
R-53 S1	849.2	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.129	0.022	0.035	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-22939	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.9	—	—	1	µg/L	Y	J	J	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.06	—	—	1	µg/L	Y	—	NQ	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.05	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.55	—	—	1	µg/L	Y	J	J	12-177	CAPA-12-1191	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.57	—	—	1	µg/L	Y	J	J	11-2835	CAPA-11-22937	GELC
R-53 S1	849.2	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.68	—	—	3.3	µg/L	Y	J	J	2015-151	CAPA-14-87226	GELC
R-53 S1	849.2	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.02	—	—	3.3	µg/L	Y	J	J	2014-2671	CAPA-14-49420	GELC
R-53 S1	849.2	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.23	—	—	3.3	µg/L	Y	J	J	2013-66	CAPA-12-23840	GELC
R-53 S1	849.2	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	8.19	—	—	3.3	µg/L	Y	J	J	12-177	CAPA-12-1191	GELC
R-53 S1	849.2	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	11.6	—	—	3.3	µg/L	Y	—	U	11-2835	CAPA-11-22937	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8	—	—	0.01	SU	Y	H	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.3	—	—	0.01	SU	Y	H	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	J-	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	J-	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	J-	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	—	—	0.01	SU	Y	H	J-	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.2	—	—	0.725	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.2	—	—	0.725	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.7	—	—	0.725	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.5	—	—	0.73	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.5	—	—	0.73	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.3	—	—	0.73	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	56.8	—	—	0.73	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0147	0.0531	0.307	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00722	0.00636	0.0386	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00264	0.00457	0.036	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0083	0.0042	0.032	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.017	0.0094	0.038	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00954	0.0092	0.014	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00759	0.0091	0.019	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0193	—	—	0.017	mg/L	Y	J	J	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.157	—	—	0.017	mg/L	Y	—	U	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.016	mg/L	Y	U	U	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	28.9	—	—	1	µg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	29.4	—	—	1	µg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.4	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.6	—	—	1	µg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	28.9	—	—	1	µg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	27.8	—	—	1	µg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	27.7	—	—	1	µg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.5	—	—	0.05	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.7	—	—	0.05	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11	—	—	0.05	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.7	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.981	1.31	5.19	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.67	1.15	3.9	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.02	1.49	4.78	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.86	2	7.1	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.2	1.6	5.1	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.02	1.5	4.5	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-3.72	1.4	3.4	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.94	—	—	0.067	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.78	—	—	0.067	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.75	—	—	0.067	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.73	—	—	0.066	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.82	—	—	0.066	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.8	—	—	0.066	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.79	—	—	0.066	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.25	—	—	2	µg/L	Y	J	J	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.47	—	—	2	µg/L	Y	J	J	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.74	—	—	2	µg/L	Y	J	J	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.34	1.34	4.55	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.46	1.35	4.61	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.09	1.29	5.46	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.03	1.2	4.8	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.32	1.5	6.4	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.877	1.4	4.2	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.13	1.2	4.6	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.167	—	—	0.033	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.192	—	—	0.033	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.213	—	—	0.033	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.253	—	—	0.033	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.258	—	—	0.033	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.243	—	—	0.033	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.246	—	—	0.033	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0279	0.428	1.5	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.955	0.392	1.49	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.63	0.771	2.1	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.278	0.72	2.9	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.359	0.66	2.6	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.16	0.87	2.1	—	pCi/L	Y	—	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.72	0.79	2	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.93	0.514	1.59	—	pCi/L	Y	—	NQ	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	45.4	1.4	2.25	—	pCi/L	Y	—	R	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	12/12/13	WG	UF	RE	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.63	0.884	2.59	—	pCi/L	Y	—	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.25	0.849	2.83	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.78	0.94	2.3	—	pCi/L	Y	—	NQ	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.99	0.85	2.7	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.1	0.89	2.3	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	2.15	0.83	2.4	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	38.7	—	—	0.453	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.6	—	—	0.453	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.6	—	—	0.453	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.5	—	—	0.45	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.8	—	—	0.45	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.2	—	—	0.45	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.6	—	—	0.45	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.06	—	—	0.11	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.11	—	—	0.11	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.21	—	—	0.11	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.07	—	—	0.11	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.08	—	—	0.11	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.04	—	—	0.11	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.05	—	—	0.11	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.165	µg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.165	µg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.04	—	—	0.165	µg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.01	—	—	0.17	µg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.14	—	—	0.17	µg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.17	µg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.03	—	—	0.17	µg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.2	2.65	10.1	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.6	2.5	8.98	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.02	2.46	9.15	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.272	2.4	8.6	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.55	3.2	11	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	01/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.787	2.8	9	—	pCi/L	Y	U	U	11-1102	CAPA-11-3092	GELC
R-53 S2	959.7	01/13/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.982	3.1	10	—	pCi/L	Y	U	U	11-1102	CAPA-11-3094	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.369	—	—	0.017	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.35	—	—	0.017	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.326	—	—	0.017	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.336	—	—	0.05	mg/L	Y	—	J	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.349	—	—	0.05	mg/L	Y	—	J	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.316	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.329	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.295	—	—	0.05	µg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.263	—	—	0.05	µg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.296	—	—	0.05	µg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.309	—	—	0.05	µg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.313	—	—	0.05	µg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.335	—	—	0.05	µg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	05/06/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.28	—	—	0.05	µg/L	Y	—	NQ	11-2350	CAPA-11-9492	GELC
R-53 S2	959.7	05/06/11	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.28	—	—	0.05	µg/L	Y	—	NQ	11-2350	CAPA-11-9493	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.023	0.0282	0.154	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0132	0.00986	0.019	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00349	0.0281	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00855	0.0069	0.039	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00875	0.011	0.051	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00216	0.0037	0.037	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00356	0.0031	0.031	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0575	0.0445	0.227	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0022	0.00961	0.0456	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00604	0.0333	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00257	0.0081	0.038	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00291	0.0051	0.049	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0172	0.0081	0.053	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	8.48E-10	0.0067	0.044	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.74	—	—	0.05	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.78	—	—	0.05	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.88	—	—	0.05	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.79	—	—	0.05	mg/L	Y	—	J	12-177	CAPA-12-1195	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.84	—	—	0.05	mg/L	Y	—	J	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.66	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.67	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.61	18	73.7	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.68	17.9	60.3	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-29.1	16.3	61.6	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	2.18	16	66	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	24.5	15	52	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-2.2	14	46	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	11.8	19	71	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.6	—	—	0.053	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.2	—	—	0.053	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75.9	—	—	0.053	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.5	—	—	0.053	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72	—	—	0.053	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.9	—	—	0.053	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71	—	—	0.053	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	9.48	—	—	0.1	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.71	—	—	0.1	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.99	—	—	0.1	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.83	—	—	0.1	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.84	—	—	0.1	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.62	—	—	0.1	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.6	—	—	0.1	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.789	1.09	3.92	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.67	1.27	4.16	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.43	1.29	3.82	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.751	1.1	4.1	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.11	1.6	6.1	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.6	1.4	3.9	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.39	1.5	4.3	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	114	—	—	3.63	uS/cm	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	122	—	—	1	uS/cm	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	123	—	—	1	uS/cm	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	1	uS/cm	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	151	—	—	1	uS/cm	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	1	uS/cm	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	120	—	—	1	uS/cm	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	45.4	—	—	1	µg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.5	—	—	1	µg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	47.7	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.2	—	—	1	µg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45	—	—	1	µg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	44.9	—	—	1	µg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	45.2	—	—	1	µg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0253	0.141	0.493	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.239	0.143	0.471	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0375	0.135	0.489	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.167	0.14	0.48	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.251	0.11	0.48	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00652	0.12	0.46	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0344	0.12	0.45	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.9	—	—	0.133	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.77	—	—	0.133	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.68	—	—	0.133	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.85	—	—	0.1	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.91	—	—	0.1	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.83	—	—	0.1	mg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.79	—	—	0.1	mg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	101	—	—	3.4	mg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	114	—	—	3.4	mg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	107	—	—	3.4	mg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	J	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	J	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.133	0.716	2.448	—	pCi/L	Y	U	U	2015-182	CAPA-14-87201	ARSL
R-53 S2	959.7	04/02/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.031	0.807	2.623	—	pCi/L	Y	U	U	2014-3113	CAPA-14-57750	ARSL
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.759	0.638	2.086	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49395	ARSL
R-53 S2	959.7	04/08/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.053	0.633	2.162	—	pCi/L	Y	U	U	2013-710	CAPA-13-29579	ARSL
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.014	0.725	2.342	—	pCi/L	Y	U	U	2013-74	CAPA-12-23814	ARSL
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.336	—	—	0.067	µg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.342	—	—	0.067	µg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.341	—	—	0.067	µg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.348	—	—	0.067	µg/L	Y	—	NQ	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.363	—	—	0.067	µg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.344	—	—	0.067	µg/L	Y	—	NQ	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.337	—	—	0.067	µg/L	Y	—	NQ	11-2835	CAPA-11-22942	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.245	0.0238	0.0443	—	pCi/L	Y	—	NQ	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.193	0.0252	0.0363	—	pCi/L	Y	—	NQ	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.188	0.0228	0.0442	—	pCi/L	Y	—	NQ	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.178	0.029	0.053	—	pCi/L	Y	—	NQ	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.212	0.03	0.048	—	pCi/L	Y	—	NQ	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.238	0.033	0.065	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.218	0.029	0.058	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00803	0.00708	0.0386	—	pCi/L	Y	U	U	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00362	0.00957	0.0327	—	pCi/L	Y	U	U	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.00982	0.0321	—	pCi/L	Y	U	U	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0157	0.0079	0.039	—	pCi/L	Y	U	U	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00708	0.0071	0.035	—	pCi/L	Y	U	U	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00733	0.0052	0.035	—	pCi/L	Y	U	U	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0163	0.0098	0.031	—	pCi/L	Y	U	U	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.104	0.0153	0.0425	—	pCi/L	Y	—	NQ	2015-151	CAPA-14-87201	GELC
R-53 S2	959.7	12/12/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.114	0.0192	0.0228	—	pCi/L	Y	—	NQ	2014-2671	CAPA-14-49395	GELC
R-53 S2	959.7	10/11/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.108	0.0186	0.0301	—	pCi/L	Y	—	NQ	2013-66	CAPA-12-23814	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.14	0.024	0.062	—	pCi/L	Y	—	NQ	12-178	CAPA-12-1196	GELC
R-53 S2	959.7	10/25/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0888	0.018	0.056	—	pCi/L	Y	—	NQ	12-178	CAPA-12-1197	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.13	0.023	0.039	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-22941	GELC
R-53 S2	959.7	07/14/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.147	0.023	0.035	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-22945	GELC
R-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.05	—	—	1	µg/L	Y	—	NQ	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.61	—	—	1	µg/L	Y	—	NQ	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.79	—	—	1	µg/L	Y	—	NQ	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.92	—	—	1	µg/L	Y	J	J	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.34	—	—	1	µg/L	Y	—	NQ	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.69	—	—	1	µg/L	Y	J	J	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.73	—	—	1	µg/L	Y	J	J	11-2835	CAPA-11-22942	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-53 S2	959.7	10/23/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	6.29	—	—	3.3	µg/L	Y	J	J	2015-151	CAPA-14-87227	GELC
R-53 S2	959.7	12/12/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2671	CAPA-14-49421	GELC
R-53 S2	959.7	10/11/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-66	CAPA-12-23841	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-177	CAPA-12-1195	GELC
R-53 S2	959.7	10/25/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-177	CAPA-12-1199	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	4.06	—	—	3.3	µg/L	Y	J	U	11-2835	CAPA-11-22943	GELC
R-53 S2	959.7	07/14/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	3.78	—	—	3.3	µg/L	Y	J	U	11-2835	CAPA-11-22942	GELC
R-54 S1	830	10/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.616	0.764	2.623	—	pCi/L	Y	U	U	2015-135	CAPA-14-87202	ARSL
R-54 S1	830	04/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.48	0.534	1.768	—	pCi/L	Y	U	U	2014-3214	CAPA-14-57751	ARSL
R-54 S1	830	12/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.856	0.62	1.755	—	pCi/L	Y	—	U	2014-2710	CAPA-14-49396	ARSL
R-54 S1	830	04/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.516	0.666	2.216	—	pCi/L	Y	U	U	2013-738	CAPA-13-29580	ARSL
R-54 S1	830	10/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.932	0.696	2.256	—	pCi/L	Y	U	U	2013-253	CAPA-12-23815	ARSL
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.05	—	—	0.01	SU	Y	H	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.26	—	—	0.01	SU	Y	H	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.19	—	—	0.01	SU	Y	H	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.44	—	—	0.01	SU	Y	H	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.37	—	—	0.01	SU	Y	H	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.19	—	—	0.01	SU	Y	H	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.12	—	—	0.01	SU	Y	H	J-	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	57.7	—	—	0.725	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	59.7	—	—	0.725	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.9	—	—	0.725	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.6	—	—	0.725	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.6	—	—	0.725	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.1	—	—	0.725	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58	—	—	0.73	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00991	0.00607	0.0314	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00251	0.00663	0.0403	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00244	0.00546	0.0392	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00334	0.00748	0.0381	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00573	0.0074	0.03	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0169	0.0074	0.029	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.13	—	—	0.017	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.136	—	—	0.017	mg/L	Y	—	U	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.124	—	—	0.017	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0778	—	—	0.017	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	N	0.05	—	—	0.017	mg/L	Y	U	U	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:350.1	Ammonia as Nitrogen	NH3-N	Y	0.0166	—	—	0.016	mg/L	Y	J	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	3.28	—	—	1.7	µg/L	Y	J	J	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	4.65	—	—	1.7	µg/L	Y	J	J	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	11.3	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	11.6	—	—	1	µg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	11.1	—	—	1	µg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	11	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	11.1	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	11.1	—	—	1	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	9.78	—	—	1	µg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	11.3	—	—	0.05	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.9	—	—	0.05	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.4	—	—	0.05	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.9	—	—	0.05	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.1	—	—	0.05	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.3	—	—	0.05	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.23	1.13	4.03	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.08	1.57	4.86	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.44	1.21	4.25	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.28	1.65	5.69	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.466	1.4	5.5	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.312	1.6	5	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.89	—	—	0.067	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.91	—	—	0.067	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.88	—	—	0.067	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.86	—	—	0.067	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.067	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.88	—	—	0.066	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.29	—	—	2	µg/L	Y	J	J	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.29	—	—	2	µg/L	Y	J	J	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.65	—	—	2	µg/L	Y	J	J	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.07	—	—	2	µg/L	Y	J	J	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.11	—	—	2	µg/L	Y	J	J	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	3.66	—	—	2	µg/L	Y	J	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.679	1.19	4.21	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.81	0.873	3.57	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.65	1.52	4.61	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.125	1.61	6.12	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.222	1.5	5.9	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.5	1.5	5.4	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.218	—	—	0.033	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.186	—	—	0.033	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.185	—	—	0.033	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.234	—	—	0.033	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.192	—	—	0.033	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.226	—	—	0.033	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.224	—	—	0.033	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.556	0.536	2.57	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.12	0.598	2.82	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.253	0.691	2.8	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.99	0.447	2.79	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.53	0.86	2.5	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.84	0.78	2.8	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.86	1.03	2.9	—	pCi/L	Y	—	NQ	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.559	0.36	1.19	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.553	0.343	1.13	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.523	0.764	2.71	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.934	0.73	2.5	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.751	0.87	3	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	40.2	—	—	0.453	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.7	—	—	0.453	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.8	—	—	0.453	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.2	—	—	0.453	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.7	—	—	0.453	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	41.8	—	—	0.453	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.7	—	—	0.45	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	2.92	—	—	0.11	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.9	—	—	0.11	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.78	—	—	0.11	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.79	—	—	0.11	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.8	—	—	0.11	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	2.79	—	—	0.11	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.14	—	—	0.11	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.165	µg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.2	—	—	0.165	µg/L	Y	—	U	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.14	—	—	0.165	µg/L	Y	—	U	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.09	—	—	0.165	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.08	—	—	0.165	µg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.3	—	—	0.165	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.34	—	—	0.17	µg/L	Y	—	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.938	2.1	7.28	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.336	2.37	8.2	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.2	2.88	8.71	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-7.15	3.51	11.2	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.915	3.2	11	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	01/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.982	2.6	8.2	—	pCi/L	Y	U	U	11-1069	CAPA-11-3050	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.381	—	—	0.017	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.505	—	—	0.017	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.435	—	—	0.017	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.368	—	—	0.017	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.361	—	—	0.017	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.371	—	—	0.017	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.383	—	—	0.05	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.272	—	—	0.05	µg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.267	—	—	0.05	µg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.279	—	—	0.05	µg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.27	—	—	0.05	µg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	07/12/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.27	—	—	0.05	µg/L	Y	—	NQ	11-2798	CAPA-11-22977	GELC
R-54 S2	915	05/05/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.261	—	—	0.05	µg/L	Y	—	NQ	11-2329	CAPA-11-9501	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00246	0.00427	0.0366	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0111	0.0111	0.0318	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00359	0.00803	0.0309	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00908	0.00677	0.0291	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00432	0.011	0.049	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0101	0.0062	0.038	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00493	0.00922	0.0323	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0259	0.0123	0.0766	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00359	0.0119	0.0743	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00907	0.00676	0.0483	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00432	0.0043	0.068	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0036	0.052	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.64	—	—	0.05	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.51	—	—	0.05	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.39	—	—	0.05	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.73	—	—	0.05	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.71	—	—	0.05	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.74	—	—	0.05	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.87	—	—	0.05	mg/L	Y	—	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-9.5	17.1	57	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.436	15.3	53.7	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-21.2	17	54.1	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	17.1	20.9	81.9	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11.9	22	88	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-22.6	17	56	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.8	—	—	0.053	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.4	—	—	0.053	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.7	—	—	0.053	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	70.2	—	—	0.053	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.6	—	—	0.053	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	73.4	—	—	0.053	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.6	—	—	0.053	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10	—	—	0.1	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.97	—	—	0.1	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.1	—	—	0.1	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10	—	—	0.1	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.314	1.19	3.95	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.19	1.11	3.49	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.18	1.36	4.34	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-2.03	1.86	6.43	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	3.16	1.5	7	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.242	1.2	4.2	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	3.63	uS/cm	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	129	—	—	1	uS/cm	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	1	uS/cm	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	128	—	—	1	uS/cm	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	127	—	—	1	uS/cm	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	126	—	—	1	uS/cm	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	1	uS/cm	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	53.8	—	—	1	µg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.6	—	—	1	µg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	49.8	—	—	1	µg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	55.5	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.7	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.1	—	—	1	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.5	—	—	1	µg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.169	0.114	0.48	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.361	0.128	0.48	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.061	0.138	0.478	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0176	0.129	0.489	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00481	0.13	0.47	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.229	0.14	0.46	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.86	—	—	0.133	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.84	—	—	0.133	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.86	—	—	0.133	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.86	—	—	0.133	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.71	—	—	0.133	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.72	—	—	0.133	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	1.99	—	—	0.1	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	104	—	—	3.4	mg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	106	—	—	3.4	mg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	117	—	—	3.4	mg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	133	—	—	3.4	mg/L	Y	—	NQ	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.374	—	—	0.33	mg/L	Y	J	J-	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.598	—	—	0.33	mg/L	Y	J	J	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.519	—	—	0.33	mg/L	Y	J	J	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	04/16/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.61	—	—	0.33	mg/L	Y	J	J	2013-731	CAPA-13-29581	GELC
R-54 S2	915	04/16/13	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.586	—	—	0.33	mg/L	Y	J	J	2013-731	CAPA-13-29532	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.725	—	—	0.33	mg/L	Y	J	J	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	12-229	CAPA-12-1172	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.072	0.926	3.143	—	pCi/L	Y	U	U	2015-135	CAPA-14-87203	ARSL
R-54 S2	915	04/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.601	0.587	2.016	—	pCi/L	Y	U	U	2014-3214	CAPA-14-57752	ARSL
R-54 S2	915	04/15/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-1.484	0.608	2.031	—	pCi/L	Y	U	U	2014-3214	CAPA-14-57705	ARSL
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.891	0.602	1.936	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49397	ARSL
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.759	0.683	2.02	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49347	ARSL
R-54 S2	915	04/16/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.98	0.754	2.218	—	pCi/L	Y	U	U	2013-738	CAPA-13-29581	ARSL
R-54 S2	915	04/16/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.627	0.679	2.246	—	pCi/L	Y	U	U	2013-738	CAPA-13-29532	ARSL
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.514	0.757	2.525	—	pCi/L	Y	U	U	2013-253	CAPA-12-23816	ARSL
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.288	—	—	0.067	µg/L	Y	—	NQ	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.335	—	—	0.067	µg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.322	—	—	0.067	µg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.322	—	—	0.067	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.32	—	—	0.067	µg/L	Y	—	NQ	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.361	—	—	0.067	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.307	—	—	0.067	µg/L	Y	—	U	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.241	0.0346	0.113	—	pCi/L	Y	—	NQ	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.24	0.0273	0.0359	—	pCi/L	Y	—	NQ	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.235	0.0307	0.0379	—	pCi/L	Y	—	NQ	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.262	0.0332	0.0785	—	pCi/L	Y	—	NQ	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.24	0.027	0.048	—	pCi/L	Y	—	NQ	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.269	0.03	0.04	—	pCi/L	Y	—	NQ	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0136	0.0134	0.0799	—	pCi/L	Y	U	U	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0143	0.00876	0.0324	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0189	0.00998	0.0341	—	pCi/L	Y	U	U	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00418	0.0139	0.049	—	pCi/L	Y	U	U	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0116	0.007	0.025	—	pCi/L	Y	U	U	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0179	0.0064	0.022	—	pCi/L	Y	U	U	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.122	0.0277	0.0609	—	pCi/L	Y	—	NQ	2015-128	CAPA-14-87203	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.11	0.0183	0.0225	—	pCi/L	Y	—	NQ	2014-2692	CAPA-14-49397	GELC
R-54 S2	915	12/16/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.113	0.0209	0.0237	—	pCi/L	Y	—	NQ	2014-2692	CAPA-14-49347	GELC
R-54 S2	915	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.115	0.0219	0.0533	—	pCi/L	Y	—	NQ	2013-223	CAPA-12-23816	GELC
R-54 S2	915	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0993	0.015	0.021	—	pCi/L	Y	—	NQ	12-231	CAPA-12-1172	GELC
R-54 S2	915	07/12/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0887	0.016	0.024	—	pCi/L	Y	—	NQ	11-2799	CAPA-11-22976	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.75	—	—	1	µg/L	Y	J	J	2015-128	CAPA-14-87229	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.29	—	—	1	µg/L	Y	—	NQ	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.05	—	—	1	µg/L	Y	—	NQ	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.24	—	—	1	µg/L	Y	—	NQ	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.64	—	—	1	µg/L	Y	J	J	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.68	—	—	1	µg/L	Y	—	NQ	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.83	—	—	1	µg/L	Y	J	J	12-230	CAPA-12-1170	GELC
R-54 S2	915	10/22/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.98	—	—	3.3	µg/L	Y	J	J	2015-128	CAPA-14-87229	GELC
R-54 S2	915	12/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2692	CAPA-14-49423	GELC
R-54 S2	915	12/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2692	CAPA-14-49350	GELC
R-54 S2	915	04/16/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-731	CAPA-13-29607	GELC
R-54 S2	915	04/16/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-731	CAPA-13-29534	GELC
R-54 S2	915	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-223	CAPA-12-23843	GELC
R-54 S2	915	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-230	CAPA-12-1170	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.09	—	—	0.01	SU	Y	H	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.07	—	—	0.01	SU	Y	H	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.18	—	—	0.01	SU	Y	H	J-	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.31	—	—	0.01	SU	Y	H	J-	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	71.3	—	—	0.725	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	73.5	—	—	0.725	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72.9	—	—	0.725	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	72	—	—	0.73	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	73	—	—	0.73	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00263	0.00697	0.0333	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00276	0.00731	0.036	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0056	0.0056	0.0382	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00484	0.007	0.052	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0162	0.011	0.031	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	34.5	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	34.3	—	—	1	µg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	35.6	—	—	1	µg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.4	—	—	1	µg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36.5	—	—	1	µg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	17.2	—	—	15	µg/L	Y	J	J	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	22.7	—	—	15	µg/L	Y	J	J	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.8	—	—	15	µg/L	Y	J	J	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.4	—	—	15	µg/L	Y	J	J	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	18.7	—	—	15	µg/L	Y	J	J	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.2	—	—	0.05	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.6	—	—	0.05	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.5	—	—	0.05	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.4	—	—	0.05	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.8	—	—	0.05	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.351	1.39	5.07	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.0566	1.57	5.68	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.382	1.42	5.39	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.03	1.6	5.6	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.398	1.4	4.7	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.33	—	—	0.067	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.28	—	—	0.067	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.81	—	—	0.067	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.62	—	—	0.066	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.74	—	—	0.066	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.0106	1.45	5.29	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.49	1.66	5.56	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.58	1.77	6.19	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.68	1.7	6	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.02	1.2	4.3	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.284	—	—	0.033	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.362	—	—	0.033	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.338	—	—	0.033	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.35	—	—	0.033	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.341	—	—	0.033	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.357	0.733	2.93	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.35	0.577	2.95	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.19	0.5	2.93	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.86	0.84	2.1	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.59	0.63	2.5	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.85	0.907	2.55	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.0993	0.728	2.68	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.251	0.58	2.33	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.63	0.68	2.4	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.26	0.83	2.5	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	63.6	—	—	0.453	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	60.9	—	—	0.453	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.7	—	—	0.453	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	63.8	—	—	0.45	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	65.4	—	—	0.45	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.42	—	—	0.11	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.14	—	—	0.11	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.52	—	—	0.11	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.33	—	—	0.11	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.47	—	—	0.11	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.913	—	—	0.165	µg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.13	—	—	0.165	µg/L	Y	—	U	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.24	—	—	0.165	µg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.22	—	—	0.17	µg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.955	—	—	0.17	µg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.07	2.75	9.77	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.01	2.88	9.72	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.464	3.43	12.1	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.15	3.1	12	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	04/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	5.02	2.6	8.9	—	pCi/L	Y	U	U	11-2230	CAPA-11-9505	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.921	—	—	0.017	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.946	—	—	0.017	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.825	—	—	0.017	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.755	—	—	0.05	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.775	—	—	0.05	mg/L	Y	—	J-	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.504	—	—	0.05	µg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.466	—	—	0.05	µg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.449	—	—	0.05	µg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.473	—	—	0.05	µg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	04/28/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.462	—	—	0.05	µg/L	Y	—	J+	11-2230	CAPA-11-9503	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00442	0.00541	0.0328	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00248	0.0043	0.0253	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00206	0.00356	0.0234	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00118	0.0047	0.051	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00205	0.0029	0.031	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00442	0.00698	0.029	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00497	0.00608	0.0389	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00411	0.0278	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00418	0.006	0.049	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00615	0.0068	0.042	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.55	—	—	0.05	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.47	—	—	0.05	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.56	—	—	0.05	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.64	—	—	0.05	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.68	—	—	0.05	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	4.53	13.4	48	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	6.96	13.3	58.9	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.01	21.1	80.7	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16.9	24	89	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-28	19	63	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	71.1	—	—	0.053	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.2	—	—	0.053	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	75	—	—	0.053	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.6	—	—	0.053	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.3	—	—	0.053	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.6	—	—	0.1	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.69	1.44	5.01	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.31	1.91	7.78	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.468	1.51	5.68	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.05	1.8	7.4	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.105	1.5	5.2	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	154	—	—	3.63	uS/cm	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	175	—	—	1	uS/cm	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	174	—	—	1	uS/cm	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	178	—	—	1	uS/cm	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	171	—	—	1	uS/cm	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	76.2	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	72.4	—	—	1	µg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	76.8	—	—	1	µg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	74.5	—	—	1	µg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	76.9	—	—	1	µg/L	Y	—	J	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.15	0.139	0.488	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.058	0.123	0.473	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.336	0.153	0.487	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0691	0.12	0.48	—	pCi/L	Y	U	U	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.256	0.11	0.49	—	pCi/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.47	—	—	0.133	mg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	5.51	—	—	0.133	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.91	—	—	0.133	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.8	—	—	0.1	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.62	—	—	0.1	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	136	—	—	3.4	mg/L	Y	—	J	2015-89	CAMO-14-87145	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-55 S1	860	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	137	—	—	3.4	mg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	157	—	—	3.4	mg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	154	—	—	3.4	mg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.337	—	—	0.33	mg/L	Y	J	J	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.789	—	—	0.33	mg/L	Y	J	J	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.592	—	—	0.33	mg/L	Y	J	J	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.584	0.656	1.967	—	pCi/L	Y	U	U	2015-92	CAMO-14-87138	ARSL
R-55 S1	860	07/11/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.887	0.629	2.029	—	pCi/L	Y	U	U	2014-3869	CAMO-14-81469	ARSL
R-55 S1	860	04/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.723	0.718	2.157	—	pCi/L	Y	U	U	2014-3168	CAMO-14-57544	ARSL
R-55 S1	860	01/08/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.726	0.681	2.025	—	pCi/L	Y	U	U	2014-2747	CAMO-14-49725	ARSL
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.56	0.79	2.63	—	pCi/L	Y	U	U	2014-2604	CAMO-14-49331	ARSL
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.694	—	—	0.067	µg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.558	—	—	0.067	µg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.748	—	—	0.067	µg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.752	—	—	0.067	µg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.649	—	—	0.067	µg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.518	0.0496	0.118	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.523	0.0376	0.0522	—	pCi/L	Y	—	J	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.473	0.0359	0.0417	—	pCi/L	Y	—	J	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.514	0.055	0.052	—	pCi/L	Y	—	NQ	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.436	0.041	0.037	—	pCi/L	Y	—	NQ	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0289	0.0153	0.0823	—	pCi/L	Y	U	U	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0127	0.0078	0.0329	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00879	0.0106	0.0303	—	pCi/L	Y	U	U	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0382	0.012	0.038	—	pCi/L	Y	—	NQ	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0291	0.0091	0.02	—	pCi/L	Y	—	NQ	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.219	0.0333	0.0626	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87138	GELC
R-55 S1	860	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.175	0.0225	0.0277	—	pCi/L	Y	—	J	2014-2585	CAMO-14-49331	GELC
R-55 S1	860	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.225	0.0247	0.0284	—	pCi/L	Y	—	J	2013-221	CAMO-12-23862	GELC
R-55 S1	860	10/28/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.213	0.03	0.06	—	pCi/L	Y	—	NQ	12-210	CAPA-12-1201	GELC
R-55 S1	860	07/15/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.173	0.023	0.022	—	pCi/L	Y	—	NQ	11-2851	CAPA-11-23022	GELC
R-55 S1	860	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.69	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87145	GELC
R-55 S1	860	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.4	—	—	1	µg/L	Y	—	NQ	2014-2585	CAMO-14-49338	GELC
R-55 S1	860	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.34	—	—	1	µg/L	Y	—	NQ	2013-221	CAMO-12-23869	GELC
R-55 S1	860	10/28/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.3	—	—	1	µg/L	Y	—	NQ	12-210	CAPA-12-1200	GELC
R-55 S1	860	07/15/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.6	—	—	1	µg/L	Y	—	NQ	11-2851	CAPA-11-23021	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.29	—	—	0.01	SU	Y	H	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.32	—	—	0.01	SU	Y	H	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.32	—	—	0.01	SU	Y	H	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.47	—	—	0.01	SU	Y	H	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.5	—	—	0.01	SU	Y	H	J-	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	J-	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	2.01	—	—	0.725	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	2.01	—	—	0.725	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	1.06	—	—	0.725	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1	—	—	0.725	mg/L	Y	U	U	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	Y	8.29	—	—	0.73	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3	ALK-CO3	N	1	—	—	0.73	mg/L	Y	U	U	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	73.8	—	—	0.725	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	73.3	—	—	0.725	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	76.7	—	—	0.725	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	77.2	—	—	0.725	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.7	—	—	0.73	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	73.5	—	—	0.73	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00566	0.015	0.0717	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0613	0.0324	0.155	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00729	0.00643	0.0317	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00571	0.0389	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00826	0.0099	0.043	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00977	0.0094	0.014	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	38.1	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	38	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	40	—	—	1	µg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	40.6	—	—	1	µg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	36	—	—	1	µg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	35.1	—	—	1	µg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Boron	B	Y	18.4	—	—	15	µg/L	Y	J	J	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Boron	B	Y	18.1	—	—	15	µg/L	Y	J	J	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	23.3	—	—	15	µg/L	Y	J	J	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	20.6	—	—	15	µg/L	Y	J	J	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	N	50	—	—	15	µg/L	Y	U	U	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Boron	B	Y	16.9	—	—	15	µg/L	Y	J	J	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.3	—	—	0.05	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	18.1	—	—	0.05	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	18.3	—	—	0.05	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19.1	—	—	0.05	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	19	—	—	0.05	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	17.7	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.556	1.8	6.28	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.32	1.83	5.82	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.87	1.28	5.18	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.05	1.36	5.23	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.137	1.4	4.5	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.48	1.7	5.9	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.19	—	—	0.067	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.2	—	—	0.067	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	4.32	—	—	0.067	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.84	—	—	0.067	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.8	—	—	0.066	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	3.75	—	—	0.066	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.877	1.54	6.24	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.09	1.68	6.81	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.953	1.2	4.22	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.38	1.37	5.75	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.157	1.4	5.3	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.36	1.6	6.1	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	Y	0.00627	—	—	0.00167	mg/L	Y	—	NQ	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.005	—	—	0.00167	mg/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.005	—	—	0.00167	mg/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.005	—	—	0.0015	mg/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.005	—	—	0.0015	mg/L	Y	U	U	11-2835	CAPA-11-23024	GELC
R-55 S2	994.4	04/28/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	EPA:335.4	Cyanide (Total)	CN(TOTAL)	N	0.005	—	—	0.0015	mg/L	Y	U	U	11-2230	CAPA-11-9508	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.322	—	—	0.033	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.328	—	—	0.033	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.415	—	—	0.033	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.386	—	—	0.033	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.359	—	—	0.033	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.338	—	—	0.033	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.494	0.657	2.95	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.00595	0.658	2.79	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.961	0.835	2.96	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.0725	0.526	2.65	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.1	0.69	2.1	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.55	0.92	1.9	—	pCi/L	Y	—	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.32	0.885	2.55	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.14	0.882	2.54	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.309	0.821	2.89	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.17	0.852	2.59	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.62	0.73	2.2	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.94	0.9	2.4	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.9	—	—	0.453	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.5	—	—	0.453	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	64.3	—	—	0.453	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	67.7	—	—	0.453	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	66.7	—	—	0.45	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	61.5	—	—	0.45	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.67	—	—	0.11	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.67	—	—	0.11	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.51	—	—	0.11	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.88	—	—	0.11	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.7	—	—	0.11	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.18	—	—	0.11	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.97	—	—	0.165	µg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	0.97	—	—	0.165	µg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	N	1.21	—	—	0.165	µg/L	Y	—	U	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.39	—	—	0.165	µg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.35	—	—	0.17	µg/L	—	—	J	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.02	—	—	0.17	µg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.202	3.51	10.8	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.89	3.7	13.7	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.446	2.75	9.03	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.01	2.94	10.7	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.32	2.4	8.3	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	04/28/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.219	3.4	11	—	pCi/L	Y	U	U	11-2230	CAPA-11-9508	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.806	—	—	0.017	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.864	—	—	0.017	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.836	—	—	0.017	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.786	—	—	0.017	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.725	—	—	0.05	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.775	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.461	—	—	0.05	µg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.468	—	—	0.05	µg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.443	—	—	0.05	µg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.437	—	—	0.05	µg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.461	—	—	0.05	µg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	04/28/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.418	—	—	0.05	µg/L	Y	—	J+	11-2230	CAPA-11-9507	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0044	0.00622	0.0327	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00437	0.00535	0.0325	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00278	0.00481	0.0283	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00213	0.00639	0.0242	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.0131	0.014	0.037	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00424	0.0037	0.036	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0022	0.00793	0.0289	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00219	0.00578	0.0287	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00833	0.0237	0.0435	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00213	0.00563	0.0288	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.008	0.052	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00636	0.0056	0.052	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.58	—	—	0.05	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.56	—	—	0.05	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.56	—	—	0.05	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.66	—	—	0.05	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.81	—	—	0.05	mg/L	Y	—	J	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.51	—	—	0.05	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-25.1	17.4	64.2	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	43.3	15.3	58.4	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-31.2	17.4	60.8	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-32	19.6	65.5	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	19.3	16	37	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.6	24	78	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	70.4	—	—	0.053	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	69.8	—	—	0.053	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.8	—	—	0.053	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.8	—	—	0.053	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.3	—	—	0.053	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.7	—	—	0.053	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.9	—	—	0.1	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	9.86	—	—	0.1	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.4	—	—	0.1	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.22	1.58	6.44	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.47	1.72	5.94	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.49	1.26	4.2	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.13	1.4	6.03	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.98	1.3	5.4	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.746	2.3	7.3	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	160	—	—	3.63	uS/cm	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	155	—	—	3.63	uS/cm	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	178	—	—	1	uS/cm	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	177	—	—	1	uS/cm	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	173	—	—	1	uS/cm	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	170	—	—	1	uS/cm	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	86.1	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	85.6	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	87.1	—	—	1	µg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	93.9	—	—	1	µg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	96.2	—	—	1	µg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	73.6	—	—	1	µg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0566	0.129	0.439	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.2	0.121	0.401	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0979	0.14	0.491	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0917	0.135	0.48	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.324	0.15	0.49	—	pCi/L	Y	U	U	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0411	0.13	0.49	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.62	—	—	0.133	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.61	—	—	0.133	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.78	—	—	0.133	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.44	—	—	0.133	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.45	—	—	0.1	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	4.67	—	—	0.1	mg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	139	—	—	3.4	mg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	159	—	—	3.4	mg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	3.4	mg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	J	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.369	—	—	0.33	mg/L	Y	J	J	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.368	—	—	0.33	mg/L	Y	J	J	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.375	—	—	0.33	mg/L	Y	J	J	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.853	—	—	0.33	mg/L	Y	J	J	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.501	—	—	0.33	mg/L	Y	J	J	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2835	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.083	0.678	2.323	—	pCi/L	Y	U	U	2015-92	CAMO-14-87139	ARSL
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.659	0.682	2.254	—	pCi/L	Y	U	U	2015-92	CAMO-14-87126	ARSL
R-55 S2	994.4	04/07/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.31	0.55	1.84	—	pCi/L	Y	U	U	2014-3168	CAMO-14-57545	ARSL
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.998	1.068	3.114	—	pCi/L	Y	U	U	2014-2604	CAMO-14-49332	ARSL
R-55 S2	994.4	04/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.018	0.67	2.148	—	pCi/L	Y	U	U	2013-764	CAMO-13-29630	ARSL
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	7.023	1.362	2.481	—	pCi/L	Y	—	NQ	2013-252	CAMO-12-23863	ARSL
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.633	—	—	0.067	µg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.656	—	—	0.067	µg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.539	—	—	0.067	µg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.718	—	—	0.067	µg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.555	—	—	0.067	µg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.578	—	—	0.067	µg/L	Y	—	NQ	11-2835	CAPA-11-23026	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.482	0.0505	0.128	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.366	0.0744	0.279	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.422	0.035	0.0574	—	pCi/L	Y	—	NQ	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.369	0.0288	0.0351	—	pCi/L	Y	—	NQ	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.432	0.04	0.042	—	pCi/L	Y	—	NQ	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.47	0.052	0.074	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0188	0.0166	0.0894	—	pCi/L	Y	U	U	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0822	0.0433	0.195	—	pCi/L	Y	U	U	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.021	0.0111	0.0361	—	pCi/L	Y	U	U	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00986	0.0078	0.0255	—	pCi/L	Y	U	U	2013-221	CAMO-12-23863	GELC
R-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0345	0.0087	0.022	—	pCi/L	Y	—	NQ	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0124	0.0072	0.04	—	pCi/L	Y	U	U	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.228	0.037	0.0681	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87139	GELC
R-55 S2	994.4	10/15/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.2	0.0543	0.149	—	pCi/L	Y	—	NQ	2015-89	CAMO-14-87126	GELC
R-55 S2	994.4	12/02/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.241	0.0264	0.0304	—	pCi/L	Y	—	NQ	2014-2585	CAMO-14-49332	GELC
R-55 S2	994.4	10/24/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.229	0.0218	0.0239	—	pCi/L	Y	—	NQ	2013-221	CAMO-12-23863	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-55 S2	994.4	10/31/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.182	0.022	0.018	—	pCi/L	Y	—	NQ	12-225	CAPA-12-1204	GELC
R-55 S2	994.4	07/14/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.167	0.027	0.044	—	pCi/L	Y	—	NQ	11-2836	CAPA-11-23024	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.73	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87146	GELC
R-55 S2	994.4	10/15/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	5.65	—	—	1	µg/L	Y	—	NQ	2015-89	CAMO-14-87127	GELC
R-55 S2	994.4	12/02/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.19	—	—	1	µg/L	Y	—	NQ	2014-2585	CAMO-14-49339	GELC
R-55 S2	994.4	10/24/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.14	—	—	1	µg/L	Y	—	NQ	2013-221	CAMO-12-23870	GELC
R-55 S2	994.4	10/31/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.48	—	—	1	µg/L	Y	—	NQ	12-225	CAPA-12-1205	GELC
R-55 S2	994.4	07/14/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.92	—	—	1	µg/L	Y	J	J	11-2835	CAPA-11-23026	GELC
R-55i	510	10/17/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.623	0.808	2.685	—	pCi/L	Y	U	U	2015-119	CAMO-14-87140	ARSL
R-55i	510	04/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.202	0.541	1.823	—	pCi/L	Y	U	U	2014-3280	CAMO-14-57546	ARSL
R-55i	510	12/12/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.57	0.671	2.028	—	pCi/L	Y	U	U	2014-2712	CAMO-14-49333	ARSL
R-55i	510	04/18/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.976	0.67	2.158	—	pCi/L	Y	U	U	2013-764	CAMO-13-29631	ARSL
R-55i	510	10/25/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	Y	2.37	0.78	2.2	—	pCi/L	Y	—	NQ	2013-252	CAMO-12-23864	ARSL
R-56 S1	945	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.92	—	—	0.01	SU	Y	H	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.01	—	—	0.01	SU	Y	H	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.11	—	—	0.01	SU	Y	H	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	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-	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.13	—	—	0.01	SU	Y	H	J-	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.7	—	—	0.725	mg/L	Y	H	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.7	—	—	0.725	mg/L	Y	H	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64	—	—	0.725	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.4	—	—	0.725	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.8	—	—	0.73	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	65.2	—	—	0.73	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.0201	0.0532	0.419	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.093	0.0558	0.389	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00466	0.00659	0.0374	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00456	0.0311	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00836	0.0042	0.032	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0168	0.01	0.029	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	Y	1.82	—	—	1.7	µg/L	Y	J	J	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Arsenic	As	N	5	—	—	1.7	µg/L	Y	U	U	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	31.1	—	—	1	µg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Barium	Ba	Y	31.7	—	—	1	µg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	32.8	—	—	1	µg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	30.7	—	—	1	µg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	33.4	—	—	1	µg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	32.9	—	—	1	µg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Cadmium	Cd	Y	0.277	—	—	0.11	µg/L	Y	J	J	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Cadmium	Cd	N	1	—	—	0.11	µg/L	Y	U	U	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.5	—	—	0.05	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.9	—	—	0.05	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.7	—	—	0.05	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.1	—	—	0.05	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.7	—	—	0.05	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	14.2	—	—	0.05	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.75	1.26	4.02	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.396	1.18	4.38	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.271	1.5	5.48	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.466	1.3	4.73	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.346	1.6	6	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.96	1.9	6.2	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.51	—	—	0.067	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.51	—	—	0.067	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.53	—	—	0.067	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.49	—	—	0.067	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.33	—	—	0.066	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.35	—	—	0.066	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.34	—	—	2	µg/L	Y	J	J	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.11	—	—	2	µg/L	Y	J	J	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.45	—	—	2	µg/L	Y	J	J	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.11	1.14	4.72	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.33	1.52	4.95	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.935	1.74	6.35	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.98	1.23	5.27	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.505	1.2	4.6	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	2.96	2.2	8.1	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.315	—	—	0.033	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.317	—	—	0.033	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.279	—	—	0.033	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.327	—	—	0.033	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.311	—	—	0.033	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.31	—	—	0.033	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.255	0.604	2.58	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-0.861	0.349	1.38	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.344	0.724	2.89	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.141	0.622	2.69	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0268	0.65	2.8	—	pCi/L	Y	U	UJ	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.0239	0.48	2.3	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.96	0.62	2	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	1.34	0.376	1.19	—	pCi/L	Y	—	NQ	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.647	0.288	0.928	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	3.59	0.871	2.51	—	pCi/L	Y	—	NQ	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.145	0.55	2.1	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.6	0.77	2.5	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.2	—	—	0.453	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	48.8	—	—	0.453	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	52.5	—	—	0.453	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	49.8	—	—	0.453	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	55.6	—	—	0.45	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	53.1	—	—	0.45	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.88	—	—	0.11	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	4.01	—	—	0.11	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.42	—	—	0.11	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.15	—	—	0.11	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.61	—	—	0.11	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	4.28	—	—	0.11	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.84	—	—	0.165	µg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.78	—	—	0.165	µg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.77	—	—	0.165	µg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.91	—	—	0.165	µg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.75	—	—	0.17	µg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.76	—	—	0.17	µg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.67	2.5	9.06	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.16	2.47	8.73	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.3	3.11	10.6	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.639	2.33	8.28	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.156	2.6	9.5	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	02/03/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.71	2.9	9.2	—	pCi/L	Y	U	U	11-1282	CAPA-11-4722	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.893	—	—	0.017	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.921	—	—	0.017	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.919	—	—	0.017	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.855	—	—	0.085	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.788	—	—	0.01	mg/L	Y	—	J-	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.812	—	—	0.1	mg/L	Y	—	U	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	N	0.2	—	—	0.05	µg/L	Y	U	U	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.194	—	—	0.05	µg/L	Y	J	J	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.348	—	—	0.05	µg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.312	—	—	0.05	µg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.409	—	—	0.05	µg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	05/10/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.284	—	—	0.05	µg/L	Y	—	NQ	11-2392	CAPA-11-9511	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	2.61E-09	0.0313	0.21	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.123	0.0525	0.235	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00362	0.00628	0.0312	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00544	0.00666	0.0309	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00894	0.014	0.034	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00215	0.0048	0.032	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	1.57E-08	0.0586	0.31	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.035	0.0606	0.346	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00724	0.0136	0.075	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00272	0.00608	0.0368	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0073	0.047	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00861	0.0068	0.045	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.54	—	—	0.05	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Potassium	K	Y	1.58	—	—	0.05	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.82	—	—	0.05	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.8	—	—	0.05	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.91	—	—	0.05	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.81	—	—	0.05	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-30.9	15.6	52.4	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-12.6	16.2	49.6	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	2.3	20.1	80	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-5.27	15.8	64.2	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-7.76	15	60	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-54.8	21	60	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	66.7	—	—	0.053	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.2	—	—	0.053	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.2	—	—	0.053	mg/L	Y	—	J+	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.8	—	—	0.053	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72	—	—	0.053	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69	—	—	0.053	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Sodium	Na	Y	10.4	—	—	0.1	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11	—	—	0.1	mg/L	Y	E	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.71	1.22	4.74	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.156	1.05	3.85	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.123	1.42	4.79	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.165	1.12	4.24	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.855	0.92	3.4	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.973	1.5	5.2	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	136	—	—	3.63	uS/cm	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	138	—	—	3.63	uS/cm	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	149	—	—	1	uS/cm	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	150	—	—	1	uS/cm	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	148	—	—	1	uS/cm	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	151	—	—	1	uS/cm	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	57.4	—	—	1	µg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Strontium	Sr	Y	58.5	—	—	1	µg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	60.2	—	—	1	µg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.7	—	—	1	µg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	62.5	—	—	1	µg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	61	—	—	1	µg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0161	0.143	0.492	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.115	0.125	0.48	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.229	0.118	0.491	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.223	0.108	0.349	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0637	0.14	0.49	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0507	0.14	0.51	—	pCi/L	Y	U	U	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.39	—	—	0.133	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.4	—	—	0.133	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.35	—	—	0.133	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.45	—	—	0.133	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.19	—	—	0.1	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.97	—	—	0.1	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	141	—	—	3.4	mg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.376	—	—	0.33	mg/L	Y	J	J-	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.38	—	—	0.33	mg/L	Y	J	J-	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.553	—	—	0.33	mg/L	Y	J	J	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.564	—	—	0.33	mg/L	Y	J	J	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.534	—	—	0.33	mg/L	Y	J	J	12-264	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2899	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.464	0.707	2.363	—	pCi/L	Y	U	U	2015-228	CAPA-14-87204	ARSL

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.613	0.816	2.811	—	pCi/L	Y	U	U	2015-228	CAPA-14-87154	ARSL
R-56 S1	945	07/17/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.454	0.622	2.075	—	pCi/L	Y	U	U	2014-4000	CAPA-14-81483	ARSL
R-56 S1	945	04/18/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.493	0.528	1.815	—	pCi/L	Y	U	U	2014-3281	CAPA-14-57753	ARSL
R-56 S1	945	01/23/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.388	0.61	2.098	—	pCi/L	Y	U	U	2014-2800	CAPA-14-49712	ARSL
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.729	0.634	2.074	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49398	ARSL
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.609	—	—	0.067	µg/L	Y	—	NQ	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.709	—	—	0.067	µg/L	Y	—	NQ	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.658	—	—	0.067	µg/L	Y	—	NQ	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.832	—	—	0.067	µg/L	Y	—	NQ	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.645	—	—	0.067	µg/L	Y	—	NQ	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.592	—	—	0.067	µg/L	Y	—	NQ	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.431	0.0312	0.0416	—	pCi/L	Y	—	J	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.427	0.0312	0.0439	—	pCi/L	Y	—	J	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.475	0.0391	0.038	—	pCi/L	Y	—	J	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.455	0.0366	0.0471	—	pCi/L	Y	—	J	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.397	0.042	0.061	—	pCi/L	Y	—	NQ	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.464	0.044	0.041	—	pCi/L	Y	—	NQ	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00503	0.0101	0.0363	—	pCi/L	Y	U	U	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0186	0.00796	0.0383	—	pCi/L	Y	U	U	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0303	0.0131	0.0342	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0132	0.00937	0.0342	—	pCi/L	Y	U	U	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00594	0.0042	0.032	—	pCi/L	Y	U	U	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	Y	0.0487	0.012	0.022	—	pCi/L	Y	—	NQ	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.205	0.0216	0.0399	—	pCi/L	Y	—	NQ	2015-208	CAPA-14-87204	GELC
R-56 S1	945	10/30/14	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.202	0.0221	0.0421	—	pCi/L	Y	—	NQ	2015-208	CAPA-14-87154	GELC
R-56 S1	945	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.267	0.0295	0.0238	—	pCi/L	Y	—	J	2014-2700	CAPA-14-49398	GELC
R-56 S1	945	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.222	0.025	0.0321	—	pCi/L	Y	—	J	2013-179	CAPA-12-23817	GELC
R-56 S1	945	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.185	0.025	0.027	—	pCi/L	Y	—	NQ	12-266	CAPA-12-1207	GELC
R-56 S1	945	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.231	0.027	0.025	—	pCi/L	Y	—	NQ	11-2900	CAPA-11-23029	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.9	—	—	1	µg/L	Y	J	J	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Vanadium	V	Y	3.82	—	—	1	µg/L	Y	J	J	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.52	—	—	1	µg/L	Y	J	J	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.21	—	—	1	µg/L	Y	J	J	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.1	—	—	1	µg/L	Y	J	J	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.81	—	—	1	µg/L	Y	J	J	11-2900	CAPA-11-23028	GELC
R-56 S1	945	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	5.74	—	—	3.3	µg/L	Y	J	J	2015-208	CAPA-14-87230	GELC
R-56 S1	945	10/30/14	WG	F	INIT	FD	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.93	—	—	3.3	µg/L	Y	J	J	2015-208	CAPA-14-87157	GELC
R-56 S1	945	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2700	CAPA-14-49424	GELC
R-56 S1	945	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.5	—	—	3.3	µg/L	Y	J	J	2013-179	CAPA-12-23844	GELC
R-56 S1	945	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-265	CAPA-12-1206	GELC
R-56 S1	945	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	6.03	—	—	3.3	µg/L	Y	J	J	11-2900	CAPA-11-23028	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.26	—	—	0.01	SU	Y	H	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.1	—	—	0.01	SU	Y	H	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.28	—	—	0.01	SU	Y	H	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.33	—	—	0.01	SU	Y	H	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.3	—	—	0.01	SU	Y	H	J-	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.33	—	—	0.01	SU	Y	H	J-	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.14	—	—	0.01	SU	Y	H	J-	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60	—	—	0.725	mg/L	Y	H	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	58.7	—	—	0.725	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.6	—	—	0.725	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.1	—	—	0.725	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.7	—	—	0.73	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S2	1046.6	11/02/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	60.6	—	—	0.73	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	75.1	—	—	0.73	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0594	0.0767	0.413	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00544	0.00544	0.0437	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00487	0.00487	0.0332	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0	0.00368	0.0355	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0187	0.0094	0.036	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0024	0.0042	0.037	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00442	0.0044	0.03	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	22.5	—	—	1	µg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	23.9	—	—	1	µg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.8	—	—	1	µg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.7	—	—	1	µg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.3	—	—	1	µg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	22.5	—	—	1	µg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	24.3	—	—	1	µg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	10.8	—	—	0.05	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12	—	—	0.05	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.8	—	—	0.05	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	11.7	—	—	0.05	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.2	—	—	0.05	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.47	1.16	3.54	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-2.84	1.75	5.62	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.81	1.32	5.28	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.73	1.28	4.12	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.993	1.2	4.3	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	2.94	1.6	6.6	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.255	1.5	4.9	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.067	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.85	—	—	0.067	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.88	—	—	0.067	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.86	—	—	0.067	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.86	—	—	0.066	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	1.86	—	—	0.066	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.02	—	—	0.066	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.92	—	—	2	µg/L	Y	J	J	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.7	—	—	2	µg/L	Y	J	J	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.54	—	—	2	µg/L	Y	J	J	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Chromium	Cr	N	10	—	—	2	µg/L	Y	U	U	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Chromium	Cr	Y	2.57	—	—	2	µg/L	Y	J	J	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.224	1.37	5.3	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.789	1.55	6.22	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.697	1.24	4.94	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.53	0.946	3.11	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.107	1.3	4.9	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-2.04	1.2	3.6	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.85	1.6	5.7	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.276	—	—	0.033	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.248	—	—	0.033	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S2	1046.6	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.299	—	—	0.033	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.321	—	—	0.033	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.291	—	—	0.033	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.293	—	—	0.033	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.295	—	—	0.033	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.833	0.353	1.12	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.478	0.596	2.87	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.992	0.714	2.42	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	1.13	0.808	2.64	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.794	0.68	2.4	—	pCi/L	Y	U	UJ	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.878	0.62	2.1	—	pCi/L	Y	U	UJ	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.634	0.48	1.6	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	1.77	0.342	1.04	—	pCi/L	Y	—	NQ	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.704	0.303	0.978	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.7	0.619	1.84	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	3.71	0.966	2.83	—	pCi/L	Y	—	NQ	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.848	0.62	2.1	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	Y	2.79	0.8	2.1	—	pCi/L	Y	—	NQ	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.79	0.93	3	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	39.6	—	—	0.453	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.2	—	—	0.453	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	43.4	—	—	0.453	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	42.9	—	—	0.453	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.7	—	—	0.45	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.8	—	—	0.45	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.5	—	—	0.45	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.07	—	—	0.11	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.49	—	—	0.11	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.37	—	—	0.11	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.34	—	—	0.11	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.45	—	—	0.11	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.45	—	—	0.11	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.51	—	—	0.11	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.56	—	—	0.165	µg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.64	—	—	0.165	µg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.9	—	—	0.165	µg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.89	—	—	0.165	µg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.64	—	—	0.17	µg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.61	—	—	0.17	µg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.54	—	—	0.17	µg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.559	2.67	8.98	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.17	3.35	12	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.23	2.31	8.53	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	-6.77	2.5	7.79	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-4.38	2.4	7.7	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	6.26	3.1	12	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	02/07/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.21	2.5	7.9	—	pCi/L	Y	U	U	11-1290	CAPA-11-4731	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.377	—	—	0.017	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.38	—	—	0.017	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.381	—	—	0.017	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.377	—	—	0.017	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.387	—	—	0.05	mg/L	Y	—	J-	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.384	—	—	0.05	mg/L	Y	—	J-	12-265	CAPA-12-1210	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S2	1046.6	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	N	0.475	—	—	0.1	mg/L	Y	J	U	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.111	0.0522	0.247	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00294	0.00658	0.0253	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00264	0.00457	0.0254	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.00659	0.0306	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0144	0.01	0.033	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00278	0.0083	0.032	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.0046	0.008	0.035	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.0738	0.0522	0.365	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00883	0.0128	0.0609	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00528	0.0421	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00538	0.0364	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0041	0.045	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0028	0.044	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00689	0.0069	0.048	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.6	—	—	0.05	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.84	—	—	0.05	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.87	—	—	0.05	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.85	—	—	0.05	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.87	—	—	0.05	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.85	—	—	0.05	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.83	—	—	0.05	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	10.6	16.9	69.5	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-6.14	18	71.9	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	1.13	16.6	65.6	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-4.23	17.8	69.3	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-4.54	17	62	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	17.2	23	90	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-16	18	52	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.5	—	—	0.053	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71	—	—	0.053	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.6	—	—	0.053	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	72.3	—	—	0.053	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.1	—	—	0.053	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.6	—	—	0.053	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.7	—	—	0.053	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	10	—	—	0.1	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	E	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.5	—	—	0.1	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.2	—	—	0.1	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.7	—	—	0.1	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.424	1.17	4.7	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.39	1.87	5.79	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.71	0.996	4.56	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.25	1.59	5.46	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.16	1.2	4.9	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.00886	1.4	5.5	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.48	1.7	5.3	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	119	—	—	3.63	uS/cm	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	129	—	—	1	uS/cm	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	2013-179	CAPA-12-23845	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S2	1046.6	10/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	133	—	—	1	uS/cm	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	uS/cm	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	48.1	—	—	1	µg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	51.6	—	—	1	µg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52.7	—	—	1	µg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	52.5	—	—	1	µg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.5	—	—	1	µg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	53.8	—	—	1	µg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	56.4	—	—	1	µg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.296	0.119	0.481	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.164	0.138	0.475	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0463	0.13	0.483	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.299	0.126	0.487	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.166	0.15	0.48	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.143	0.14	0.47	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.106	0.13	0.47	—	pCi/L	Y	U	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.45	—	—	0.133	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.41	—	—	0.133	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.6	—	—	0.133	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.49	—	—	0.133	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3	—	—	0.1	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.92	—	—	0.1	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.72	—	—	0.1	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	3.4	mg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	3.4	mg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	120	—	—	3.4	mg/L	Y	—	NQ	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	121	—	—	3.4	mg/L	Y	—	NQ	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	123	—	—	3.4	mg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	119	—	—	3.4	mg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	111	—	—	3.4	mg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.373	—	—	0.33	mg/L	Y	J	J-	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.709	—	—	0.33	mg/L	Y	J	J	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.688	—	—	0.33	mg/L	Y	J	J	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.755	—	—	0.33	mg/L	Y	J	J	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.562	—	—	0.33	mg/L	Y	J	J	12-264	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	Y	0.569	—	—	0.33	mg/L	Y	J	J	12-264	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	GENERAL CHEMISTRY	SW-846:9060	Total Organic Carbon	TOC	N	1	—	—	0.33	mg/L	Y	U	U	11-2899	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.105	0.842	2.86	—	pCi/L	Y	U	U	2015-228	CAPA-14-87205	ARSL
R-56 S2	1046.6	04/18/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.478	0.476	1.637	—	pCi/L	Y	U	U	2014-3281	CAPA-14-57754	ARSL
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.424	0.653	1.998	—	pCi/L	Y	U	U	2014-2710	CAPA-14-49399	ARSL
R-56 S2	1046.6	04/24/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.345	0.735	2.31	—	pCi/L	Y	U	U	2013-769	CAPA-13-29583	ARSL
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.025	0.641	2.183	—	pCi/L	Y	U	U	2013-217	CAPA-12-23818	ARSL
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.799	0.661	2.155	—	pCi/L	Y	U	U	2013-217	CAPA-12-23764	ARSL
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.426	—	—	0.067	µg/L	Y	—	NQ	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.405	—	—	0.067	µg/L	Y	—	NQ	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.552	—	—	0.067	µg/L	Y	—	U	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	N	0.552	—	—	0.067	µg/L	Y	—	U	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.518	—	—	0.067	µg/L	Y	—	NQ	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.483	—	—	0.067	µg/L	Y	—	NQ	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.454	—	—	0.067	µg/L	Y	—	NQ	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.293	0.0262	0.0452	—	pCi/L	Y	—	J	2015-208	CAPA-14-87205	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.309	0.0333	0.0412	—	pCi/L	Y	—	NQ	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.293	0.032	0.0525	—	pCi/L	Y	—	NQ	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.277	0.0311	0.0528	—	pCi/L	Y	—	NQ	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.257	0.032	0.069	—	pCi/L	Y	—	NQ	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.294	0.036	0.076	—	pCi/L	Y	—	NQ	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.344	0.035	0.041	—	pCi/L	Y	—	NQ	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0136	0.00818	0.0394	—	pCi/L	Y	U	U	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0123	0.00917	0.0371	—	pCi/L	Y	U	U	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0111	0.00976	0.0381	—	pCi/L	Y	U	U	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00742	0.00742	0.0383	—	pCi/L	Y	U	U	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0067	0.0048	0.036	—	pCi/L	Y	U	U	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00741	0.0074	0.04	—	pCi/L	Y	U	U	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0252	0.009	0.022	—	pCi/L	Y	—	U	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.157	0.0189	0.0433	—	pCi/L	Y	—	NQ	2015-208	CAPA-14-87205	GELC
R-56 S2	1046.6	12/17/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.169	0.025	0.0258	—	pCi/L	Y	—	NQ	2014-2700	CAPA-14-49399	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.161	0.0235	0.0357	—	pCi/L	Y	—	NQ	2013-179	CAPA-12-23818	GELC
R-56 S2	1046.6	10/18/12	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.141	0.0227	0.0359	—	pCi/L	Y	—	NQ	2013-179	CAPA-12-23764	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.133	0.022	0.031	—	pCi/L	Y	—	NQ	12-266	CAPA-12-1213	GELC
R-56 S2	1046.6	11/02/11	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.132	0.023	0.034	—	pCi/L	Y	—	NQ	12-266	CAPA-12-1212	GELC
R-56 S2	1046.6	07/20/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.195	0.023	0.025	—	pCi/L	Y	—	NQ	11-2900	CAPA-11-23032	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.8	—	—	1	µg/L	Y	J	J	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.93	—	—	1	µg/L	Y	J	J	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.89	—	—	1	µg/L	Y	J	J	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.33	—	—	1	µg/L	Y	J	J	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.77	—	—	1	µg/L	Y	J	J	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.79	—	—	1	µg/L	Y	J	J	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	07/20/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.33	—	—	1	µg/L	Y	J	J	11-2900	CAPA-11-23030	GELC
R-56 S2	1046.6	10/30/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.44	—	—	3.3	µg/L	Y	J	J	2015-208	CAPA-14-87231	GELC
R-56 S2	1046.6	12/17/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2014-2700	CAPA-14-49425	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-179	CAPA-12-23845	GELC
R-56 S2	1046.6	10/18/12	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	2013-179	CAPA-12-23767	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-265	CAPA-12-1211	GELC
R-56 S2	1046.6	11/02/11	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	N	10	—	—	3.3	µg/L	Y	U	U	12-265	CAPA-12-1210	GELC
R-56 S2	1046.6	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-11-23030	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.91	—	—	0.01	SU	Y	H	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.83	—	—	0.01	SU	Y	H	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.75	—	—	0.01	SU	Y	H	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	8.04	—	—	0.01	SU	Y	H	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.95	—	—	0.01	SU	Y	H	J-	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.96	—	—	0.01	SU	Y	H	J-	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.2	—	—	0.725	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	70.3	—	—	0.725	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	55	—	—	0.725	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.9	—	—	0.725	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.7	—	—	0.73	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.1	—	—	0.73	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0136	0.00721	0.0345	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00694	0.00612	0.0302	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00979	0.00692	0.0319	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00888	0.00662	0.0404	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.0086	0.0061	0.035	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00234	0.004	0.032	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	16.2	—	—	1	µg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	16.2	—	—	1	µg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.3	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	16.9	—	—	1	µg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	16.9	—	—	1	µg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	13.4	—	—	0.05	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13	—	—	0.05	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.5	—	—	0.05	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.6	—	—	0.05	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	1.32	1.52	5.99	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.36	1.11	3.92	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.764	1.92	7.13	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.116	1.3	4.77	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.87	1.6	5.7	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.668	2	6.7	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.47	—	—	0.067	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.38	—	—	0.067	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.38	—	—	0.067	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.21	—	—	0.067	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.22	—	—	0.066	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.24	—	—	0.066	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.31	1.45	6.19	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.49	1.47	5.86	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.488	1.78	6.89	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.05	1.27	5.32	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	0.656	1.4	5.9	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.353	1.7	5.6	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.239	—	—	0.033	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.278	—	—	0.033	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.278	—	—	0.033	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.27	—	—	0.033	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.291	—	—	0.033	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.287	—	—	0.033	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-1.17	0.454	2.92	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.546	0.793	2.88	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	0.938	0.823	2.88	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.59	0.894	2.79	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.341	0.65	2.7	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	1.38	0.73	2.1	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.375	0.865	2.95	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	-0.802	0.656	2.58	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	0.432	0.652	2.34	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.35	0.825	2.7	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.705	0.73	2.5	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	Y	2.8	0.88	2.4	—	pCi/L	Y	—	NQ	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	48.4	—	—	0.453	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.6	—	—	0.453	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.7	—	—	0.453	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	48.8	—	—	0.453	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.3	—	—	0.45	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	48.7	—	—	0.45	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.65	—	—	0.11	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.51	—	—	0.11	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.46	—	—	0.11	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.65	—	—	0.11	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.43	—	—	0.11	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.58	—	—	0.11	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	5.12	—	—	2	µg/L	Y	J	J	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	9.75	—	—	2	µg/L	Y	J	J	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	8.81	—	—	2	µg/L	Y	J	J	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	19.1	—	—	2	µg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	41.7	—	—	2	µg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	64.7	—	—	2	µg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.54	—	—	0.165	µg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.01	—	—	0.165	µg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.15	—	—	0.165	µg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.57	—	—	0.165	µg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.21	—	—	0.17	µg/L	Y	—	J	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	2.16	—	—	0.17	µg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	0.797	2.97	10.8	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-2.35	2.54	8.74	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.69	2.91	11.2	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.57	2.81	9.56	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.713	2.5	9	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/01/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	3.99	2.2	7.8	—	pCi/L	Y	U	U	10-3534	CAPA-10-22387	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.13	—	—	0.5	µg/L	Y	J	J	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.19	—	—	0.5	µg/L	Y	J	J	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.29	—	—	0.5	µg/L	Y	J	J	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.35	—	—	0.5	µg/L	Y	J	J	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	2.1	—	—	0.5	µg/L	Y	—	U	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.41	—	—	0.5	µg/L	Y	J	J	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.602	—	—	0.017	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.66	—	—	0.017	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.57	—	—	0.017	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.489	—	—	0.017	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.505	—	—	0.05	mg/L	Y	—	J	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.462	—	—	0.05	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.311	—	—	0.05	µg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.296	—	—	0.05	µg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.288	—	—	0.05	µg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.273	—	—	0.05	µg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.262	—	—	0.05	µg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	05/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.273	—	—	0.05	µg/L	Y	—	NQ	11-2368	CAPA-11-9517	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00346	0.0137	0.0349	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00307	0.00686	0.0313	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00262	0.00453	0.0267	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.003	0.0067	0.0341	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00704	0.0086	0.061	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	1.43E-10	0.0034	0.036	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0125	0.0178	0.0307	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0092	0.0111	0.048	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00785	0.00785	0.041	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.0104	0.0405	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00352	0.0061	0.06	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.00963	0.0076	0.05	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.54	—	—	0.05	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.43	—	—	0.05	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.48	—	—	0.05	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.57	—	—	0.05	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.64	—	—	0.05	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.56	—	—	0.05	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-40.1	22.3	75.5	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	14.3	15.5	40.2	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-34.7	19.6	65.8	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	24.2	21.1	72.7	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	2.15	21	75	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-25.2	19	59	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.6	—	—	0.053	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	66.5	—	—	0.053	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	65.3	—	—	0.053	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	74.6	—	—	0.053	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.1	—	—	0.053	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.6	—	—	0.053	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.3	—	—	0.1	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.5	—	—	0.1	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.3	—	—	0.1	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.7	—	—	0.1	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.8	—	—	0.1	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.0493	1.32	5.3	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.75	1.51	5.51	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	1.82	1.6	6.96	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.0937	1.42	5.38	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-1.68	1.5	5	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.44	1.5	4.9	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	121	—	—	3.63	uS/cm	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	1	uS/cm	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	141	—	—	1	uS/cm	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	142	—	—	1	uS/cm	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	140	—	—	1	uS/cm	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	136	—	—	1	uS/cm	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	60.8	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	58.9	—	—	1	µg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.3	—	—	1	µg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	62.4	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	59.5	—	—	1	µg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	59.4	—	—	1	µg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.238	0.116	0.491	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0249	0.143	0.521	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.056	0.123	0.49	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.105	0.133	0.472	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0365	0.14	0.49	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.0686	0.1	0.4	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	3.05	—	—	0.133	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.86	—	—	0.133	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.87	—	—	0.133	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.74	—	—	0.133	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S1	910	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.69	—	—	0.1	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.53	—	—	0.1	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	91.4	—	—	3.4	mg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	134	—	—	3.4	mg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	143	—	—	3.4	mg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	129	—	—	3.4	mg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	144	—	—	3.4	mg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.931	0.771	2.642	—	pCi/L	Y	U	U	2015-120	CAPA-14-87206	ARSL
R-57 S1	910	07/14/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.372	0.592	1.98	—	pCi/L	Y	U	U	2014-3873	CAPA-14-81484	ARSL
R-57 S1	910	07/14/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.26	0.658	2.056	—	pCi/L	Y	U	U	2014-3873	CAPA-14-81474	ARSL
R-57 S1	910	04/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.16	0.7	2.39	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57755	ARSL
R-57 S1	910	04/03/14	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.75	0.86	2.96	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57706	ARSL
R-57 S1	910	01/08/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.701	0.619	2.027	—	pCi/L	Y	U	U	2014-2748	CAPA-14-49713	ARSL
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.417	0.608	2.034	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49400	ARSL
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.381	0.622	1.895	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49346	ARSL
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.337	—	—	0.067	µg/L	Y	—	NQ	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.267	—	—	0.067	µg/L	Y	—	NQ	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.258	—	—	0.067	µg/L	Y	—	NQ	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.306	—	—	0.067	µg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.369	—	—	0.067	µg/L	Y	—	NQ	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.369	—	—	0.067	µg/L	Y	—	U	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.206	0.0315	0.0929	—	pCi/L	Y	—	NQ	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.206	0.0233	0.049	—	pCi/L	Y	—	NQ	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.229	0.0265	0.0566	—	pCi/L	Y	—	NQ	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.266	0.0302	0.0508	—	pCi/L	Y	—	NQ	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.232	0.032	0.052	—	pCi/L	Y	—	NQ	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.243	0.03	0.056	—	pCi/L	Y	—	NQ	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00137	0.0085	0.0655	—	pCi/L	Y	U	U	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0149	0.00897	0.0308	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00345	0.00772	0.0356	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00357	0.00799	0.0369	—	pCi/L	Y	U	U	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0155	0.0078	0.038	—	pCi/L	Y	U	U	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00311	0.0054	0.03	—	pCi/L	Y	U	U	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.117	0.0229	0.0499	—	pCi/L	Y	—	NQ	2015-97	CAPA-14-87206	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.111	0.0181	0.026	—	pCi/L	Y	—	NQ	2014-2627	CAPA-14-49400	GELC
R-57 S1	910	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0978	0.0179	0.03	—	pCi/L	Y	—	NQ	2014-2627	CAPA-14-49346	GELC
R-57 S1	910	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.136	0.0229	0.0346	—	pCi/L	Y	—	NQ	2013-60	CAPA-12-23819	GELC
R-57 S1	910	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.106	0.02	0.061	—	pCi/L	Y	—	NQ	12-157	CAPA-12-1215	GELC
R-57 S1	910	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.088	0.017	0.033	—	pCi/L	Y	—	NQ	11-2828	CAPA-11-23035	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.91	—	—	1	µg/L	Y	J	J	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	3.86	—	—	1	µg/L	Y	J	J	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.71	—	—	1	µg/L	Y	J	J	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	6.12	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.77	—	—	1	µg/L	Y	J	J	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.05	—	—	1	µg/L	Y	—	NQ	11-2827	CAPA-11-23033	GELC
R-57 S1	910	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Zinc	Zn	Y	4.49	—	—	3.3	µg/L	Y	J	J	2015-97	CAPA-14-87232	GELC
R-57 S1	910	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	3.83	—	—	3.3	µg/L	Y	J	J	2014-2627	CAPA-14-49426	GELC
R-57 S1	910	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Zinc	Zn	Y	4.1	—	—	3.3	µg/L	Y	J	J	2014-2627	CAPA-14-49349	GELC
R-57 S1	910	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	5.05	—	—	3.3	µg/L	Y	J	J	2013-60	CAPA-12-23846	GELC
R-57 S1	910	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	8.28	—	—	3.3	µg/L	Y	J	J	12-157	CAPA-12-1216	GELC
R-57 S1	910	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Zinc	Zn	Y	8.43	—	—	3.3	µg/L	Y	J	J	11-2827	CAPA-11-23033	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.94	—	—	0.01	SU	Y	H	NQ	2015-97	CAPA-14-87233	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S2	971.5	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.82	—	—	0.01	SU	Y	H	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.79	—	—	0.01	SU	Y	H	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	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	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.68	—	—	0.01	SU	Y	H	J-	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:150.1	Acidity or Alkalinity of a solution	pH	Y	7.65	—	—	0.01	SU	Y	H	J-	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	61.7	—	—	0.725	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	64.5	—	—	0.725	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.4	—	—	0.725	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.3	—	—	0.725	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	62.2	—	—	0.73	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:310.1	Alkalinity-CO3+HCO3	ALK-CO3+HCO3	Y	63.6	—	—	0.73	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00488	0.00488	0.0309	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00255	0.00571	0.0333	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00246	0.00425	0.032	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00251	0.00752	0.0342	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	0.00903	0.0045	0.037	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:AM-241	Americium-241	Am-241	N	-0.00261	0.0045	0.035	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Barium	Ba	Y	16.9	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	17.9	—	—	1	µg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.3	—	—	1	µg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	18.1	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.2	—	—	1	µg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Barium	Ba	Y	19.6	—	—	1	µg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Calcium	Ca	Y	12.7	—	—	0.05	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.5	—	—	0.05	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.5	—	—	0.05	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	12.8	—	—	0.05	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.1	—	—	0.05	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Calcium	Ca	Y	13.3	—	—	0.05	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.636	1.15	4.08	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	0.723	2.89	5.23	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.862	1.12	3.75	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.03	1.42	4.95	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-0.349	1.3	4.7	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cesium-137	Cs-137	N	-1.75	1.6	4.8	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.33	—	—	0.067	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.23	—	—	0.067	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.24	—	—	0.067	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.02	—	—	0.067	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.11	—	—	0.066	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Chloride	Cl(-1)	Y	2.16	—	—	0.066	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.13	1.17	4.11	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	-1.64	1.15	3.92	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Cobalt-60	Co-60	N	-0.493	0.894	3.33	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	3.08	1.8	7.24	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.11	1.3	5.8	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Cobalt-60	Co-60	N	1.51	1.7	6	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.241	—	—	0.033	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.271	—	—	0.033	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.273	—	—	0.033	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.266	—	—	0.033	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.288	—	—	0.033	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Fluoride	F(-1)	Y	0.285	—	—	0.033	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.746	0.658	2.92	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	-0.845	0.678	2.95	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	EPA:900	Gross alpha	GROSSA	N	-1.6	0.677	2.94	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.289	0.596	2.43	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	0.593	0.7	2.6	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	EPA:900	Gross alpha	GROSSA	N	2.34	0.92	2.2	—	pCi/L	Y	—	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.37	0.76	2.38	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	0.261	0.706	2.58	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	EPA:900	Gross beta	GROSSB	N	1.06	0.774	2.52	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.05	0.76	2.27	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	1.84	0.77	2.3	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	EPA:900	Gross beta	GROSSB	N	2.21	0.81	2.3	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46	—	—	0.453	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	44.6	—	—	0.453	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	45	—	—	0.453	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.3	—	—	0.453	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	46.7	—	—	0.45	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SM:A2340B	Hardness	HARDNESS	Y	47.4	—	—	0.45	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Magnesium	Mg	Y	3.45	—	—	0.11	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.27	—	—	0.11	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.35	—	—	0.11	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.46	—	—	0.11	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.39	—	—	0.11	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Magnesium	Mg	Y	3.46	—	—	0.11	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Manganese	Mn	Y	2.34	—	—	2	µg/L	Y	J	J	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	2.39	—	—	2	µg/L	Y	J	J	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Manganese	Mn	Y	3.37	—	—	2	µg/L	Y	J	J	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	4.28	—	—	2	µg/L	Y	J	J	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	8.34	—	—	2	µg/L	Y	J	J	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Manganese	Mn	Y	10.8	—	—	2	µg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.31	—	—	0.165	µg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.39	—	—	0.165	µg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.53	—	—	0.165	µg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.29	—	—	0.165	µg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.63	—	—	0.17	µg/L	Y	—	J	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Molybdenum	Mo	Y	1.39	—	—	0.17	µg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-0.475	2.71	9.26	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-1.39	2.61	8.14	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.98	2.11	7.81	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	2.72	3.03	10.8	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	-3.54	3	10	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	06/25/10	WG	UF	INIT	REG	RAD	EPA:901.1	Neptunium-237	Np-237	N	1.51	3.5	12	—	pCi/L	Y	U	U	10-3489	CAPA-10-22406	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	2.1	—	—	0.5	µg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.51	—	—	0.5	µg/L	Y	J	J	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Nickel	Ni	Y	1.79	—	—	0.5	µg/L	Y	J	J	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.898	—	—	0.5	µg/L	Y	J	J	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	N	1.49	—	—	0.5	µg/L	Y	J	U	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Nickel	Ni	Y	0.917	—	—	0.5	µg/L	Y	J	J	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.475	—	—	0.017	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.545	—	—	0.017	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.52	—	—	0.017	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.464	—	—	0.017	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.478	—	—	0.05	mg/L	Y	—	J	12-157	CAPA-12-1220	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S2	971.5	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:353.2	Nitrate-Nitrite as Nitrogen	NO3+NO2-N	Y	0.435	—	—	0.05	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.306	—	—	0.05	µg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.304	—	—	0.05	µg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.289	—	—	0.05	µg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.31	—	—	0.05	µg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.285	—	—	0.05	µg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	05/09/11	WG	F	INIT	REG	LCMS/MS PERCHLORATE	SW-846:6850	Perchlorate	ClO4	Y	0.276	—	—	0.05	µg/L	Y	—	NQ	11-2368	CAPA-11-9519	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.012	0.0116	0.046	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00874	0.00651	0.0297	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00508	0.00719	0.0259	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	-0.00543	0.00405	0.0206	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0	0.0053	0.065	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-238	Pu-238	N	0.00231	0.004	0.035	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	-0.0104	0.0129	0.0405	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00291	0.00651	0.0456	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0	0.00622	0.0398	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00543	0.00543	0.0245	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00375	0.0065	0.063	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOPU	Plutonium-239/240	Pu-239/240	N	0.00694	0.0052	0.048	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Potassium	K	Y	1.56	—	—	0.05	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.51	—	—	0.05	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Potassium	K	Y	1.5	—	—	0.05	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.65	—	—	0.05	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.62	—	—	0.05	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Potassium	K	Y	1.59	—	—	0.05	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	13.5	15.7	61.5	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	11	17.3	67.6	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Potassium-40	K-40	N	-19.5	14.2	46.8	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-20.9	18.3	67.2	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	-0.0773	21	81	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Potassium-40	K-40	N	23	18	56	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Silicon Dioxide	SiO2	Y	68.7	—	—	0.053	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	67.5	—	—	0.053	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	68.5	—	—	0.053	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	76.4	—	—	0.053	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	71.7	—	—	0.053	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Silicon Dioxide	SiO2	Y	69.1	—	—	0.053	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Sodium	Na	Y	10.2	—	—	0.1	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.1	—	—	0.1	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.2	—	—	0.1	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Sodium	Na	Y	11.2	—	—	0.1	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	0.429	1.28	5.03	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-0.664	1.51	5.35	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	EPA:901.1	Sodium-22	Na-22	N	2.2	1.16	4.87	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	1.12	1.46	5.76	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	-3.55	1.6	4.6	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	EPA:901.1	Sodium-22	Na-22	N	2.74	1.9	7	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	124	—	—	3.63	uS/cm	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	134	—	—	1	uS/cm	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	137	—	—	1	uS/cm	Y	—	NQ	2013-60	CAPA-12-23847	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S2	971.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	135	—	—	1	uS/cm	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:120.1	Specific Conductance	SPEC_CONDC	Y	134	—	—	1	uS/cm	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Strontium	Sr	Y	59.2	—	—	1	µg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.8	—	—	1	µg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Strontium	Sr	Y	57.7	—	—	1	µg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	60.8	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	59.9	—	—	1	µg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Strontium	Sr	Y	59.7	—	—	1	µg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	-0.00739	0.13	0.489	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.322	0.157	0.513	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.133	0.149	0.511	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.18	0.141	0.476	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.0591	0.14	0.49	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	EPA:905.0	Strontium-90	Sr-90	N	0.00844	0.12	0.47	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.69	—	—	0.133	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.64	—	—	0.133	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.52	—	—	0.133	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.41	—	—	0.133	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.53	—	—	0.1	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:300.0	Sulfate	SO4(-2)	Y	2.46	—	—	0.1	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	131	—	—	3.4	mg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	126	—	—	3.4	mg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	146	—	—	3.4	mg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	149	—	—	3.4	mg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	150	—	—	3.4	mg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	GENERAL CHEMISTRY	EPA:160.1	Total Dissolved Solids	TDS	Y	140	—	—	3.4	mg/L	Y	—	NQ	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	Y	0.37	—	—	0.3	µg/L	N	J	R	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	10/16/14	WG	UF	RE	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	UH	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	04/03/14	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	UH	U	2014-3121	CAPA-14-57756	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	U	U	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	04/10/13	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	U	U	2013-714	CAPA-13-29585	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	VOC	SW-846:8260B	Trichloroethene	79-01-6	N	1	—	—	0.3	µg/L	Y	UH	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	-0.297	0.739	2.529	—	pCi/L	Y	U	U	2015-120	CAPA-14-87207	ARSL
R-57 S2	971.5	04/03/14	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.01	0.47	1.59	—	pCi/L	Y	U	U	2014-3169	CAPA-14-57756	ARSL
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.687	0.597	1.955	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49401	ARSL
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	1.205	0.583	1.799	—	pCi/L	Y	U	U	2014-2651	CAPA-14-49345	ARSL
R-57 S2	971.5	04/10/13	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	2.564	0.907	2.611	—	pCi/L	Y	U	U	2013-738	CAPA-13-29585	ARSL
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	Generic:Low_Level_Tritium	Tritium	H-3	N	0.537	0.693	2.302	—	pCi/L	Y	U	U	2013-61	CAPA-12-23820	ARSL
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.361	—	—	0.067	µg/L	Y	—	NQ	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.281	—	—	0.067	µg/L	Y	—	NQ	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6020	Uranium	U	Y	0.283	—	—	0.067	µg/L	Y	—	NQ	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.33	—	—	0.067	µg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	Y	0.35	—	—	0.067	µg/L	Y	—	NQ	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6020	Uranium	U	N	0.319	—	—	0.067	µg/L	Y	—	U	11-2827	CAPA-11-23037	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.22	0.0307	0.0907	—	pCi/L	Y	—	NQ	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.226	0.0269	0.0544	—	pCi/L	Y	—	NQ	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.249	0.0274	0.056	—	pCi/L	Y	—	NQ	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.22	0.0246	0.038	—	pCi/L	Y	—	NQ	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.204	0.031	0.055	—	pCi/L	Y	—	NQ	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-234	U-234	Y	0.156	0.021	0.042	—	pCi/L	Y	—	NQ	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0191	0.0112	0.0639	—	pCi/L	Y	U	U	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.00996	0.00996	0.0343	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49401	GELC

Table C-2 TA-54 Monitoring Group Analytical Results and Results from the Four Previous Monitoring Events if Available

Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	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-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0273	0.0108	0.0353	—	pCi/L	Y	U	U	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0187	0.00962	0.0276	—	pCi/L	Y	U	U	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0	0.0057	0.04	—	pCi/L	Y	U	U	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-235/236	U-235/236	N	0.0165	0.0064	0.023	—	pCi/L	Y	U	U	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.101	0.0208	0.0487	—	pCi/L	Y	—	NQ	2015-97	CAPA-14-87207	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.094	0.0176	0.0289	—	pCi/L	Y	—	NQ	2014-2627	CAPA-14-49401	GELC
R-57 S2	971.5	12/05/13	WG	UF	INIT	FD	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0995	0.0175	0.0297	—	pCi/L	Y	—	NQ	2014-2627	CAPA-14-49345	GELC
R-57 S2	971.5	10/10/12	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0756	0.0142	0.0258	—	pCi/L	Y	—	NQ	2013-60	CAPA-12-23820	GELC
R-57 S2	971.5	10/21/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.0951	0.02	0.064	—	pCi/L	Y	—	NQ	12-157	CAPA-12-1218	GELC
R-57 S2	971.5	07/13/11	WG	UF	INIT	REG	RAD	HASL-300:ISOU	Uranium-238	U-238	Y	0.111	0.016	0.025	—	pCi/L	Y	—	NQ	11-2828	CAPA-11-23039	GELC
R-57 S2	971.5	10/16/14	WG	F	INIT	REG	INORGANIC	SW-846:6010C	Vanadium	V	Y	4.97	—	—	1	µg/L	Y	J	J	2015-97	CAPA-14-87233	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.13	—	—	1	µg/L	Y	J	J	2014-2627	CAPA-14-49427	GELC
R-57 S2	971.5	12/05/13	WG	F	INIT	FD	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.87	—	—	1	µg/L	Y	J	J	2014-2627	CAPA-14-49348	GELC
R-57 S2	971.5	10/10/12	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	5.94	—	—	1	µg/L	Y	—	NQ	2013-60	CAPA-12-23847	GELC
R-57 S2	971.5	10/21/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.65	—	—	1	µg/L	Y	J	J	12-157	CAPA-12-1220	GELC
R-57 S2	971.5	07/13/11	WG	F	INIT	REG	INORGANIC	SW-846:6010B	Vanadium	V	Y	4.41	—	—	1	µg/L	Y	J	J	11-2827	CAPA-11-23037	GELC

Appendix D

Groundwater Results Greater Than Half of Screening Levels

Zone	Location	Screen Top Depth (ft)	Sample Date	Analysis Suite	Parameter Name	Parameter Code	Field Prep Code	Analysis Type Code	Field Quality Control Code	Detect Flag	Report Result	Method Detection Limit	Uncertainty	Minimum Detectable Activity	Unit	Dilution Factor	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	10/14/14	Inorganic	Aluminum	Al	F[a]	INIT[b]	REG[c]	Y[d]	7370	68	—[e]	—	µg/L	1	N[f]	J+[g]	I6b[h]	Y	SW-846:6010C	GELC[i]	5000	NMWQCC GW STD[j]	1.47
Intermediate	03-B-13	21.5	10/14/14	Inorganic	Iron	Fe	F	INIT	REG	Y	4170	30	—	—	µg/L	1	—	NQ[k]	NQ	Y	SW-846:6010C	GELC	1000	NMWQCC GW STD	4.17
Intermediate	03-B-13	21.5	10/14/14	SVOC[l]	Dioxane[1,4-]	123-91-1	UF[m]	INIT	REG	Y	19.4	3.06	—	—	µg/L	1	—	J-[n]	SV3a[o]	N[p]	SW-846:8270D	GELC	7.8	EPA TAP SCRN LVL[q]	2.49
Intermediate	03-B-13	21.5	10/14/14	SVOC	Dioxane[1,4-]	123-91-1	UF	RE[r]	REG	Y	21.5	3.06	—	—	µg/L	1	—	NQ	NQ	Y	SW-846:8270D	GELC	7.8	EPA TAP SCRN LVL	2.76
Intermediate	03-B-13	21.5	10/14/14	VOC[s]	Trichloroethane[1,1,1-]	71-55-6	UF	INIT	REG	Y	72.3	0.3	—	—	µg/L	1	H[t]	NQ	NQ	Y	SW-846:8260B	GELC	60	NMWQCC GW STD	1.21
Intermediate	R-23i S3	524	10/20/14	Rad[u]	Strontium-90	Sr-90	UF	RE	FD[v]	Y	13.8	—	0.351	0.496	pCi/L	1	—	NQ	NQ	Y	EPA:905.0	GELC	8	EPA MCL	1.73
Intermediate	R-40 Si	649.67	10/28/14	Inorganic	Iron	Fe	F	INIT	REG	Y	561	30	—	—	µg/L	1	—	NQ	NQ	Y	SW-846:6010C	GELC	1000	NMWQCC GW STD	0.56
Intermediate	R-40 Si	649.67	10/28/14	Inorganic	Manganese	Mn	F	INIT	REG	Y	258	2	—	—	µg/L	1	—	NQ	NQ	Y	SW-846:6010C	GELC	200	NMWQCC GW STD	1.29
Regional	R-53 S1	849.2	10/23/14	Rad	Gross alpha	GROSSA	UF	INIT	REG	Y	8.05	—	1.5	2.77	pCi/L	1	—	NQ	NQ	Y	EPA:900	GELC	15	EPA MCL	0.54

[a] F = Filtered.

[b] INIT = Initial.

[c] REG = Regular.

[d] Y = Yes.

[e] — = None.

[f] N = Spiked sample recovery was not within control limits.

[g] 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.

[h] I6b = The associated matrix spike recovery was above the upper acceptance limit. Follow the external laboratory limits located within the associated data package.

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

[j] NMWQCC GW STD = New Mexico Water Quality Control Commission groundwater standard.

[k] NQ = Not qualified.

[l] SVOC = Semivolatile organic compound.

[m] UF = Unfiltered.

[n] 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.

[o] SV3a = The surrogate is less than the lower acceptance limit but ≥10% recovery, which indicates the potential for a low bias in the results. Follow the external laboratory limits.

[p] N = No.

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

[r] RE = Reanalysis.

[s] VOC = Volatile organic compound.

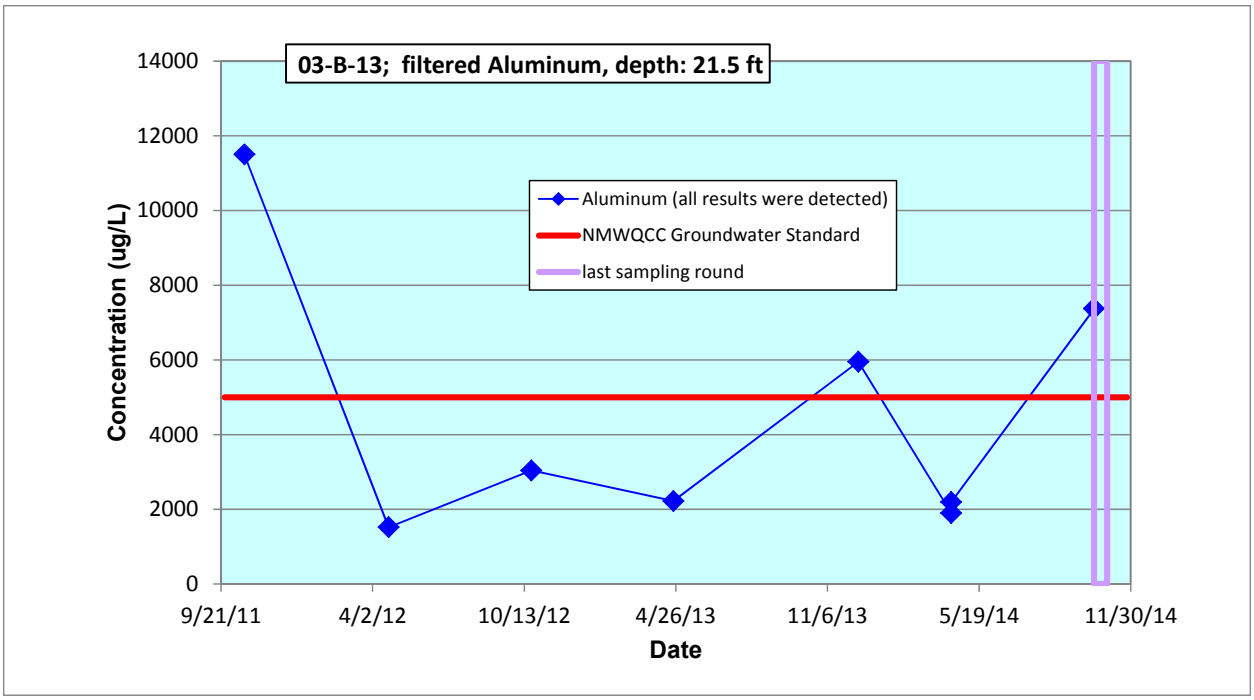
[t] H = The required extraction or analysis holding time for this result was exceeded.

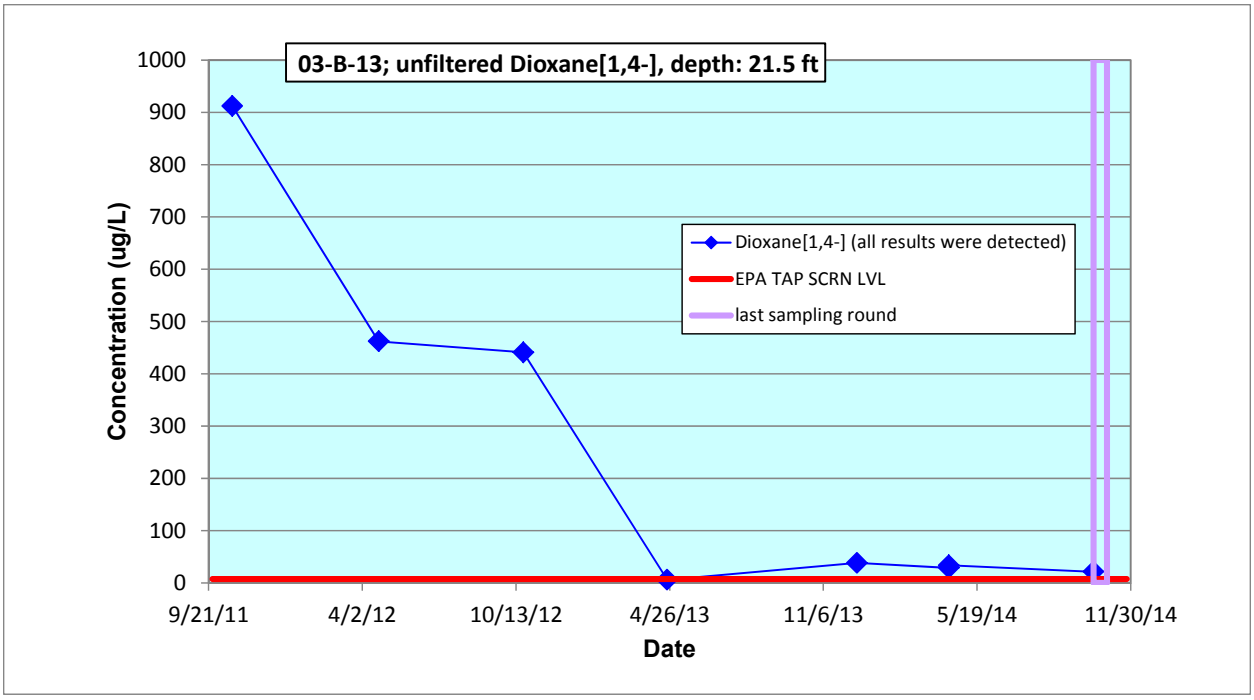
[u] Rad = Radionuclides.

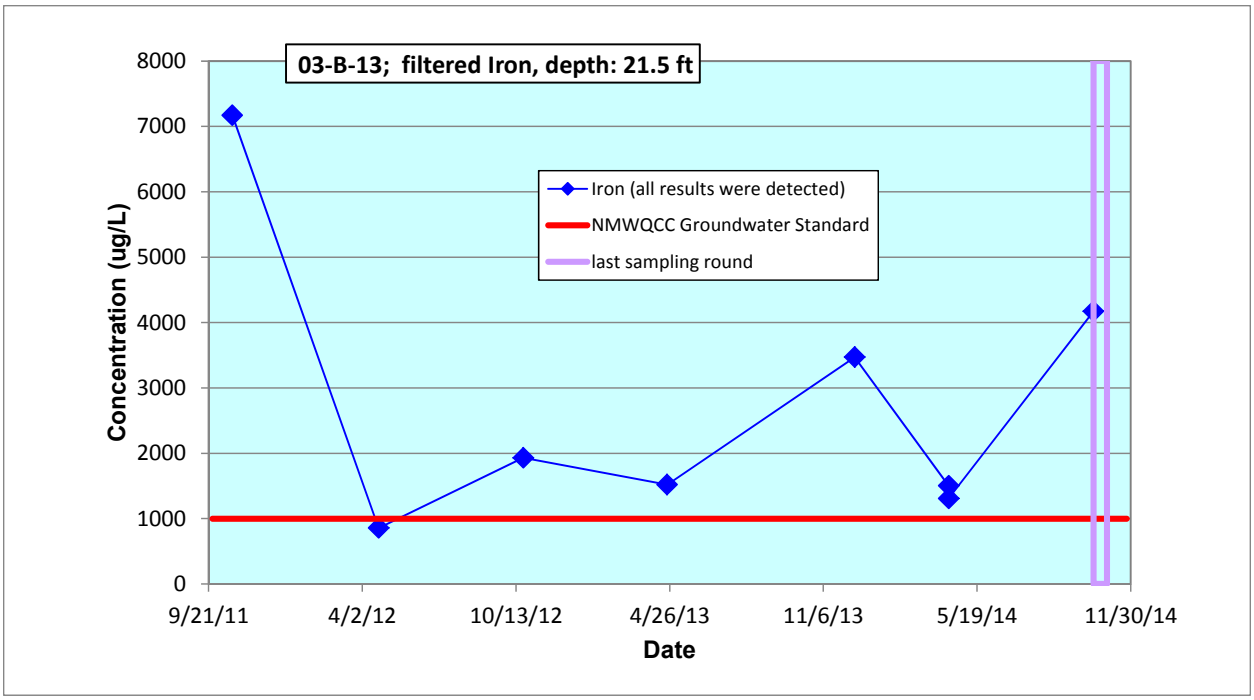
[v] FD = Field duplicate.

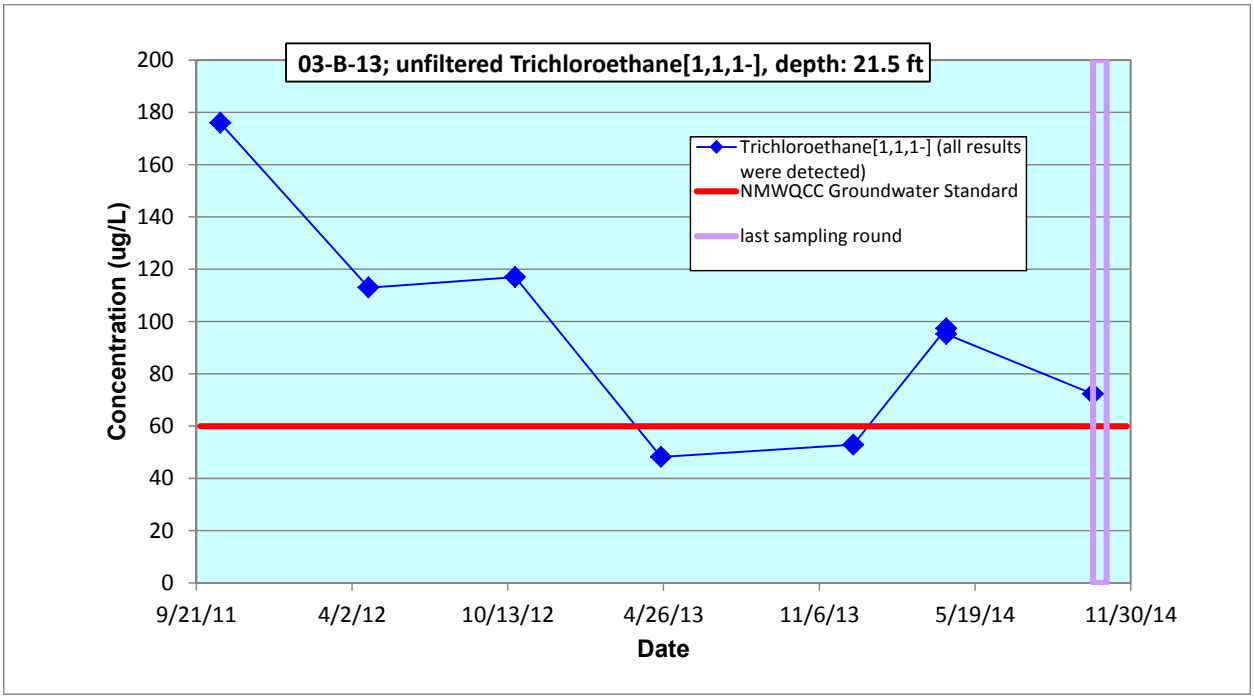
Appendix E

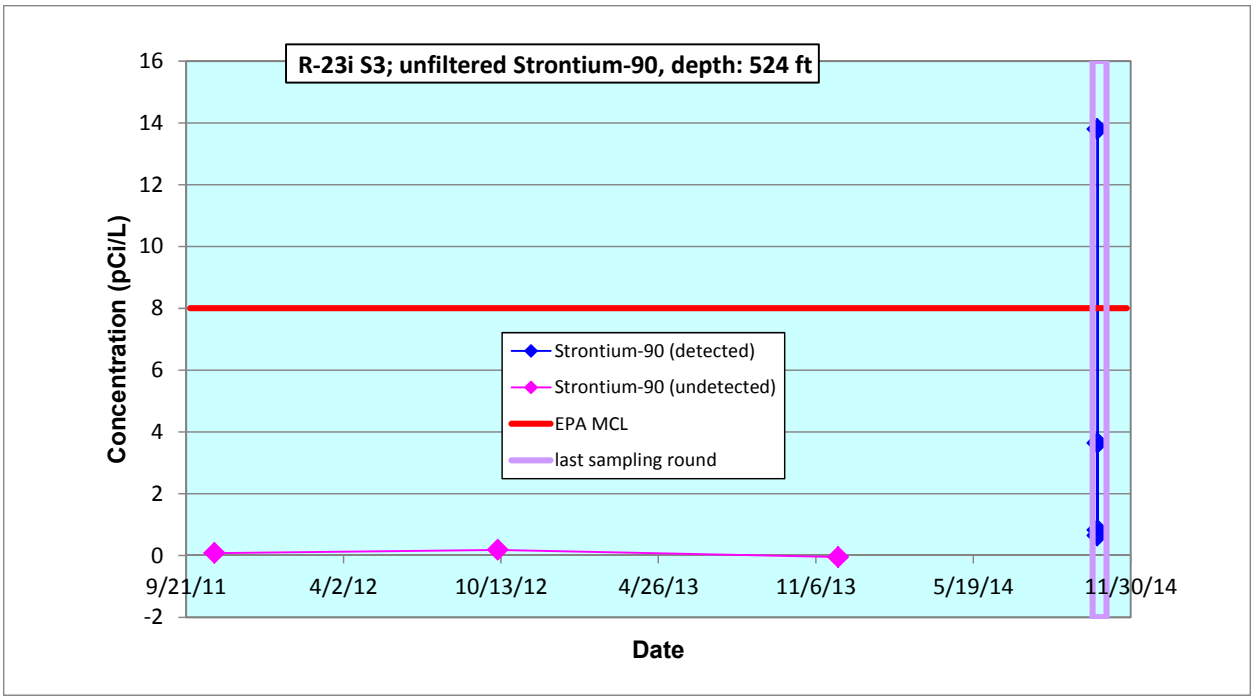
Analytical Chemistry Graphs of Screening-Level Exceedances

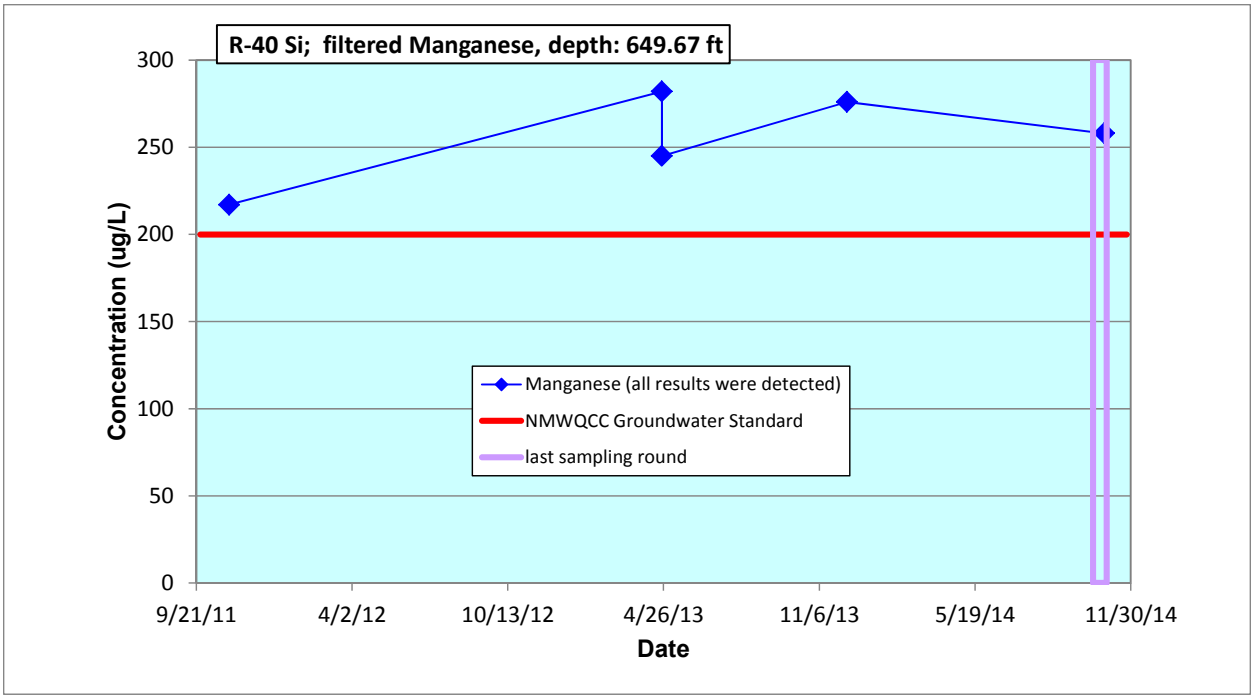

03-B-13; filtered Aluminum, depth: 21.5 ft
Concentration (ug/L)
14000
12000
10000
8000
6000
4000
2000
0
9/21/11
4/2/12
10/13/12
4/26/13
11/6/13
5/19/14
11/30/14
Date
Aluminum (all results were detected)
NMWQCC Groundwater Standard
last sampling round


03-B-13; unfiltered Dioxane[1,4-], depth: 21.5 ft
Concentration (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
9/21/11
4/2/12
10/13/12
4/26/13
11/6/13
5/19/14
11/30/14
Date
Dioxane[1,4-] (all results were detected)
EPA TAP SCRN LVL
last sampling round


03-B-13; filtered Iron, depth: 21.5 ft
Iron (all results were detected)
NMWQCC Groundwater Standard
last sampling round
Concentration (ug/L)
8000
7000
6000
5000
4000
3000
2000
1000
0
9/21/11
4/2/12
10/13/12
4/26/13
11/6/13
5/19/14
11/30/14
Date


03-B-13; unfiltered Trichloroethane[1,1,1-], depth: 21.5 ft
Trichloroethane[1,1,1-] (all results were detected)
NMWQCC Groundwater Standard
last sampling round
Concentration (ug/L)
200
180
160
140
120
100
80
60
40
20
0
9/21/11
4/2/12
10/13/12
4/26/13
11/6/13
5/19/14
11/30/14
Date


R-23i S3; unfiltered Strontium-90, depth: 524 ft
Concentration (pCi/L)
16
14
12
10
8
6
4
2
0
-2
9/21/11
4/2/12
10/13/12
4/26/13
11/6/13
5/19/14
11/30/14
Date
Strontium-90 (detected)
Strontium-90 (undetected)
EPA MCL
last sampling round


R-40 Si; filtered Manganese, depth: 649.67 ft
Concentration (ug/L)
300
250
200
150
100
50
0
9/21/11
4/2/12
10/13/12
4/26/13
11/6/13
5/19/14
11/30/14
Date
Manganese (all results were detected)
NMWQCC Groundwater Standard
last sampling round

Appendix F

Analytical Reports
(on CD included with this document)

CD Table of Contents

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2014-3540	Rad[a]	ARSL[b]	CAMO-14-57532	06/10/14	R-37 S1	929.3	950
2014-3540	Rad	ARSL	CAMO-14-57541	06/10/14	R-37 S1	929.3	950
2014-3711	Organic	GELC[c]	CAPA-14-81482	07/09/14	R-41 S2	965.3	975
2014-3712	Organic	GELC	CAMO-14-81468	07/09/14	R-37 S2	1026	1046.6
2014-3725	Rad	ARSL	CAPA-14-81482	07/09/14	R-41 S2	965.3	975
2014-3726	Rad	ARSL	CAMO-14-81468	07/09/14	R-37 S2	1026	1046.6
2014-3748	Organic	GELC	CAMO-14-81467	07/10/14	R-37 S1	929.3	950
2014-3788	Organic	GELC	CAMO-14-81469	07/11/14	R-55 S1	860	880.6
2014-3810	Organic	GELC	CAPA-14-81474	07/14/14	R-57 S1	910	930.5
2014-3810	Organic	GELC	CAPA-14-81481	07/14/14	R-39	859	869
2014-3810	Organic	GELC	CAPA-14-81484	07/14/14	R-57 S1	910	930.5
2014-3817	Organic	GELC	CAPA-14-81480	07/14/14	R-23	816	873.2
2014-3869	Rad	ARSL	CAMO-14-81467	07/10/14	R-37 S1	929.3	950
2014-3869	Rad	ARSL	CAMO-14-81469	07/11/14	R-55 S1	860	880.6
2014-3873	Rad	ARSL	CAPA-14-81480	07/14/14	R-23	816	873.2
2014-3873	Rad	ARSL	CAPA-14-81481	07/14/14	R-39	859	869
2014-3873	Rad	ARSL	CAPA-14-81484	07/14/14	R-57 S1	910	930.5
2014-3873	Rad	ARSL	CAPA-14-81474	07/14/14	R-57 S1	910	930.5
2014-3919	Organic	GELC	CAPA-14-81483	07/17/14	R-56 S1	945	965.6
2014-4000	Rad	ARSL	CAPA-14-81483	07/17/14	R-56 S1	945	965.6
2015-104	Inorganic	GELC	CAPA-14-87217	10/17/14	R-40 S2	849.27	870
2015-104	Inorganic	GELC	CAPA-14-87191	10/17/14	R-40 S2	849.27	870
2015-104	Organic	GELC	CAPA-14-87191	10/17/14	R-40 S2	849.27	870
2015-104	Rad	GELC	CAPA-14-87191	10/17/14	R-40 S2	849.27	870
2015-105	Inorganic	GELC	CAPA-14-87184	10/17/14	R-23	816	873.2
2015-105	Inorganic	GELC	CAPA-14-87210	10/17/14	R-23	816	873.2
2015-105	Organic	GELC	CAPA-14-87184	10/17/14	R-23	816	873.2
2015-105	Rad	GELC	CAPA-14-87184	10/17/14	R-23	816	873.2
2015-106	Organic	GELC	CAMO-14-87140	10/17/14	R-55i	510	531.1
2015-107	Organic	SHEALY[d]	CAMO-14-87140	10/17/14	R-55i	510	531.1
2015-108	Organic	SHEALY	CAPA-14-87184	10/17/14	R-23	816	873.2
2015-108	Organic	SHEALY	CAPA-14-87198	10/16/14	R-52 S1	1035.2	1055.7
2015-108	Organic	SHEALY	CAPA-14-87207	10/16/14	R-57 S2	971.5	992.1
2015-108	Organic	SHEALY	CAPA-14-87199	10/16/14	R-52 S2	1107	1117
2015-108	Organic	SHEALY	CAPA-14-87191	10/17/14	R-40 S2	849.27	870
2015-108	Organic	SHEALY	CAPA-14-87206	10/16/14	R-57 S1	910	930.5
2015-113	Inorganic	GELC	CAPA-14-87152	10/20/14	R-23i S3	524	547
2015-113	Inorganic	GELC	CAPA-14-87187	10/20/14	R-23i S3	524	547

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-113	Inorganic	GELC	CAPA-14-87209	10/20/14	R-20 S2	1147.1	1154.7
2015-113	Inorganic	GELC	CAPA-14-87211	10/20/14	R-23i S1	400.3	420
2015-113	Inorganic	GELC	CAPA-14-87155	10/20/14	R-23i S3	524	547
2015-113	Inorganic	GELC	CAPA-14-87213	10/20/14	R-23i S3	524	547
2015-113	Inorganic	GELC	CAPA-14-87183	10/20/14	R-20 S2	1147.1	1154.7
2015-113	Inorganic	GELC	CAPA-14-87185	10/20/14	R-23i S1	400.3	420
2015-113	Organic	GELC	CAPA-14-87152	10/20/14	R-23i S3	524	547
2015-113	Organic	GELC	CAPA-14-87187	10/20/14	R-23i S3	524	547
2015-113	Organic	GELC	CAPA-14-87185	10/20/14	R-23i S1	400.3	420
2015-113	Organic	GELC	CAPA-14-87183	10/20/14	R-20 S2	1147.1	1154.7
2015-113	Rad	GELC	CAPA-14-87152	10/20/14	R-23i S3	524	547
2015-113	Rad	GELC	CAPA-14-87187	10/20/14	R-23i S3	524	547
2015-113	Rad	GELC	CAPA-14-87183	10/20/14	R-20 S2	1147.1	1154.7
2015-113	Rad	GELC	CAPA-14-87185	10/20/14	R-23i S1	400.3	420
2015-115	Organic	SHEALY	CAPA-14-87152	10/20/14	R-23i S3	524	547
2015-115	Organic	SHEALY	CAPA-14-87187	10/20/14	R-23i S3	524	547
2015-115	Organic	SHEALY	CAPA-14-87185	10/20/14	R-23i S1	400.3	420
2015-115	Organic	SHEALY	CAPA-14-87183	10/20/14	R-20 S2	1147.1	1154.7
2015-119	Rad	ARSL	CAMO-14-87140	10/17/14	R-55i	510	531.1
2015-120	Rad	ARSL	CAPA-14-87152	10/20/14	R-23i S3	524	547
2015-120	Rad	ARSL	CAPA-14-87198	10/16/14	R-52 S1	1035.2	1055.7
2015-120	Rad	ARSL	CAPA-14-87184	10/17/14	R-23	816	873.2
2015-120	Rad	ARSL	CAPA-14-87187	10/20/14	R-23i S3	524	547
2015-120	Rad	ARSL	CAPA-14-87207	10/16/14	R-57 S2	971.5	992.1
2015-120	Rad	ARSL	CAPA-14-87199	10/16/14	R-52 S2	1107	1117
2015-120	Rad	ARSL	CAPA-14-87183	10/20/14	R-20 S2	1147.1	1154.7
2015-120	Rad	ARSL	CAPA-14-87191	10/17/14	R-40 S2	849.27	870
2015-120	Rad	ARSL	CAPA-14-87206	10/16/14	R-57 S1	910	930.5
2015-123	Inorganic	GELC	CAPA-14-87219	10/21/14	R-41 S2	965.3	975
2015-123	Inorganic	GELC	CAPA-14-87189	10/21/14	R-39	859	869
2015-123	Inorganic	GELC	CAPA-14-87193	10/21/14	R-41 S2	965.3	975
2015-123	Inorganic	GELC	CAPA-14-87214	10/21/14	R-32 S1	867.5	875.2
2015-123	Inorganic	GELC	CAPA-14-87215	10/21/14	R-39	859	869
2015-123	Inorganic	GELC	CAPA-14-87188	10/21/14	R-32 S1	867.5	875.2
2015-123	Organic	GELC	CAPA-14-87189	10/21/14	R-39	859	869
2015-123	Organic	GELC	CAPA-14-87193	10/21/14	R-41 S2	965.3	975
2015-123	Organic	GELC	CAPA-14-87188	10/21/14	R-32 S1	867.5	875.2
2015-123	Rad	GELC	CAPA-14-87189	10/21/14	R-39	859	869
2015-123	Rad	GELC	CAPA-14-87193	10/21/14	R-41 S2	965.3	975

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-123	Rad	GELC	CAPA-14-87188	10/21/14	R-32 S1	867.5	875.2
2015-124	Organic	SHEALY	CAPA-14-87189	10/21/14	R-39	859	869
2015-124	Organic	SHEALY	CAPA-14-87193	10/21/14	R-41 S2	965.3	975
2015-124	Organic	SHEALY	CAPA-14-87188	10/21/14	R-32 S1	867.5	875.2
2015-128	Inorganic	GELC	CAPA-14-87153	10/22/14	R-51 S2	1031	1041
2015-128	Inorganic	GELC	CAPA-14-87222	10/22/14	R-51 S1	914.96	925.24
2015-128	Inorganic	GELC	CAPA-14-87223	10/22/14	R-51 S2	1031	1041
2015-128	Inorganic	GELC	CAPA-14-87196	10/22/14	R-51 S1	914.96	925.24
2015-128	Inorganic	GELC	CAPA-14-87156	10/22/14	R-51 S2	1031	1041
2015-128	Inorganic	GELC	CAPA-14-87229	10/22/14	R-54 S2	915	925
2015-128	Inorganic	GELC	CAPA-14-87203	10/22/14	R-54 S2	915	925
2015-128	Inorganic	GELC	CAPA-14-87197	10/22/14	R-51 S2	1031	1041
2015-128	Organic	GELC	CAPA-14-87153	10/22/14	R-51 S2	1031	1041
2015-128	Organic	GELC	CAPA-14-87196	10/22/14	R-51 S1	914.96	925.24
2015-128	Organic	GELC	CAPA-14-87202	10/22/14	R-54 S1	830	840
2015-128	Organic	GELC	CAPA-14-87203	10/22/14	R-54 S2	915	925
2015-128	Organic	GELC	CAPA-14-87197	10/22/14	R-51 S2	1031	1041
2015-128	Rad	GELC	CAPA-14-87153	10/22/14	R-51 S2	1031	1041
2015-128	Rad	GELC	CAPA-14-87196	10/22/14	R-51 S1	914.96	925.24
2015-128	Rad	GELC	CAPA-14-87203	10/22/14	R-54 S2	915	925
2015-128	Rad	GELC	CAPA-14-87197	10/22/14	R-51 S2	1031	1041
2015-131	Organic	SHEALY	CAPA-14-87153	10/22/14	R-51 S2	1031	1041
2015-131	Organic	SHEALY	CAPA-14-87196	10/22/14	R-51 S1	914.96	925.24
2015-131	Organic	SHEALY	CAPA-14-87202	10/22/14	R-54 S1	830	840
2015-131	Organic	SHEALY	CAPA-14-87203	10/22/14	R-54 S2	915	925
2015-131	Organic	SHEALY	CAPA-14-87197	10/22/14	R-51 S2	1031	1041
2015-135	Rad	ARSL	CAPA-14-87153	10/22/14	R-51 S2	1031	1041
2015-135	Rad	ARSL	CAPA-14-87189	10/21/14	R-39	859	869
2015-135	Rad	ARSL	CAPA-14-87193	10/21/14	R-41 S2	965.3	975
2015-135	Rad	ARSL	CAPA-14-87202	10/22/14	R-54 S1	830	840
2015-135	Rad	ARSL	CAPA-14-87196	10/22/14	R-51 S1	914.96	925.24
2015-135	Rad	ARSL	CAPA-14-87188	10/21/14	R-32 S1	867.5	875.2
2015-135	Rad	ARSL	CAPA-14-87203	10/22/14	R-54 S2	915	925
2015-135	Rad	ARSL	CAPA-14-87197	10/22/14	R-51 S2	1031	1041
2015-149	Inorganic	GELC	CAPA-14-87195	10/24/14	R-49 S2	905.6	926.4
2015-149	Inorganic	GELC	CAPA-14-87221	10/24/14	R-49 S2	905.6	926.4
2015-149	Organic	GELC	CAPA-14-87195	10/24/14	R-49 S2	905.6	926.4
2015-149	Rad	GELC	CAPA-14-87195	10/24/14	R-49 S2	905.6	926.4
2015-150	Inorganic	GELC	CAMO-14-87141	10/23/14	R-21	888.8	906.8

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-150	Inorganic	GELC	CAMO-14-87134	10/23/14	R-21	888.8	906.8
2015-150	Organic	GELC	CAMO-14-87134	10/23/14	R-21	888.8	906.8
2015-150	Rad	GELC	CAMO-14-87134	10/23/14	R-21	888.8	906.8
2015-151	Inorganic	GELC	CAPA-14-87201	10/23/14	R-53 S2	959.7	980.2
2015-151	Inorganic	GELC	CAPA-14-87226	10/23/14	R-53 S1	849.2	859.2
2015-151	Inorganic	GELC	CAPA-14-87227	10/23/14	R-53 S2	959.7	980.2
2015-151	Inorganic	GELC	CAPA-14-87200	10/23/14	R-53 S1	849.2	859.2
2015-151	Organic	GELC	CAPA-14-87201	10/23/14	R-53 S2	959.7	980.2
2015-151	Organic	GELC	CAPA-14-87200	10/23/14	R-53 S1	849.2	859.2
2015-151	Rad	GELC	CAPA-14-87201	10/23/14	R-53 S2	959.7	980.2
2015-151	Rad	GELC	CAPA-14-87200	10/23/14	R-53 S1	849.2	859.2
2015-152	Organic	SHEALY	CAPA-14-87195	10/24/14	R-49 S2	905.6	926.4
2015-153	Organic	SHEALY	CAPA-14-87201	10/23/14	R-53 S2	959.7	980.2
2015-153	Organic	SHEALY	CAPA-14-87200	10/23/14	R-53 S1	849.2	859.2
2015-154	Organic	SHEALY	CAMO-14-87134	10/23/14	R-21	888.8	906.8
2015-161	Inorganic	GELC	CAPA-14-89328	10/27/14	PCI-2	512	522
2015-161	Inorganic	GELC	CAPA-14-89329	10/27/14	PCI-2	512	522
2015-161	Organic	GELC	CAPA-14-89328	10/27/14	PCI-2	512	522
2015-163	Inorganic	GELC	CAPA-14-87220	10/27/14	R-49 S1	845	855
2015-163	Inorganic	GELC	CAPA-14-87194	10/27/14	R-49 S1	845	855
2015-163	Organic	GELC	CAPA-14-87194	10/27/14	R-49 S1	845	855
2015-163	Rad	GELC	CAPA-14-87194	10/27/14	R-49 S1	845	855
2015-164	Organic	SHEALY	CAPA-14-87194	10/27/14	R-49 S1	845	855
2015-170	Inorganic	GELC	CAMO-14-87137	10/28/14	R-38	821.2	831.2
2015-170	Inorganic	GELC	CAMO-14-87144	10/28/14	R-38	821.2	831.2
2015-170	Organic	GELC	CAMO-14-87137	10/28/14	R-38	821.2	831.2
2015-170	Rad	GELC	CAMO-14-87137	10/28/14	R-38	821.2	831.2
2015-172	Inorganic	GELC	CAPA-14-87218	10/28/14	R-40 Si	649.67	669.02
2015-172	Inorganic	GELC	CAPA-14-87192	10/28/14	R-40 Si	649.67	669.02
2015-172	Organic	GELC	CAPA-14-87190	10/28/14	R-40 S1	751.59	785.06
2015-172	Organic	GELC	CAPA-14-87192	10/28/14	R-40 Si	649.67	669.02
2015-173	Organic	SHEALY	CAMO-14-87137	10/28/14	R-38	821.2	831.2
2015-174	Organic	SHEALY	CAPA-14-87190	10/28/14	R-40 S1	751.59	785.06
2015-174	Organic	SHEALY	CAPA-14-87192	10/28/14	R-40 Si	649.67	669.02
2015-182	Rad	ARSL	CAPA-14-87201	10/23/14	R-53 S2	959.7	980.2
2015-182	Rad	ARSL	CAPA-14-87190	10/28/14	R-40 S1	751.59	785.06
2015-182	Rad	ARSL	CAPA-14-87194	10/27/14	R-49 S1	845	855
2015-182	Rad	ARSL	CAPA-14-87192	10/28/14	R-40 Si	649.67	669.02
2015-182	Rad	ARSL	CAPA-14-87200	10/23/14	R-53 S1	849.2	859.2

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-182	Rad	ARSL	CAPA-14-87195	10/24/14	R-49 S2	905.6	926.4
2015-183	Rad	ARSL	CAPA-14-89328	10/27/14	PCI-2	512	522
2015-184	Rad	ARSL	CAMO-14-87134	10/23/14	R-21	888.8	906.8
2015-184	Rad	ARSL	CAMO-14-87137	10/28/14	R-38	821.2	831.2
2015-188	Inorganic	GELC	CAPA-14-87186	10/29/14	R-23i S2	470.2	480.1
2015-188	Inorganic	GELC	CAPA-14-87212	10/29/14	R-23i S2	470.2	480.1
2015-188	Organic	GELC	CAPA-14-87186	10/29/14	R-23i S2	470.2	480.1
2015-188	Rad	GELC	CAPA-14-87186	10/29/14	R-23i S2	470.2	480.1
2015-192	Organic	SHEALY	CAPA-14-87186	10/29/14	R-23i S2	470.2	480.1
2015-196	Rad	ARSL	CAPA-14-87186	10/29/14	R-23i S2	470.2	480.1
2015-199	Organic	SHEALY	CAPA-14-87182	10/31/14	R-20 S1	904.6	912.2
2015-199	Organic	SHEALY	CAPA-14-87204	10/30/14	R-56 S1	945	965.6
2015-199	Organic	SHEALY	CAPA-14-87205	10/30/14	R-56 S2	1046.6	1067.1
2015-199	Organic	SHEALY	CAPA-14-87154	10/30/14	R-56 S1	945	965.6
2015-204	Inorganic	GELC	CAPA-14-87182	10/31/14	R-20 S1	904.6	912.2
2015-204	Inorganic	GELC	CAPA-14-87208	10/31/14	R-20 S1	904.6	912.2
2015-204	Organic	GELC	CAPA-14-87182	10/31/14	R-20 S1	904.6	912.2
2015-204	Rad	GELC	CAPA-14-87182	10/31/14	R-20 S1	904.6	912.2
2015-208	Inorganic	GELC	CAPA-14-87204	10/30/14	R-56 S1	945	965.6
2015-208	Inorganic	GELC	CAPA-14-87205	10/30/14	R-56 S2	1046.6	1067.1
2015-208	Inorganic	GELC	CAPA-14-87154	10/30/14	R-56 S1	945	965.6
2015-208	Inorganic	GELC	CAPA-14-87157	10/30/14	R-56 S1	945	965.6
2015-208	Inorganic	GELC	CAPA-14-87230	10/30/14	R-56 S1	945	965.6
2015-208	Inorganic	GELC	CAPA-14-87231	10/30/14	R-56 S2	1046.6	1067.1
2015-208	Organic	GELC	CAPA-14-87204	10/30/14	R-56 S1	945	965.6
2015-208	Organic	GELC	CAPA-14-87205	10/30/14	R-56 S2	1046.6	1067.1
2015-208	Organic	GELC	CAPA-14-87154	10/30/14	R-56 S1	945	965.6
2015-208	Rad	GELC	CAPA-14-87204	10/30/14	R-56 S1	945	965.6
2015-208	Rad	GELC	CAPA-14-87205	10/30/14	R-56 S2	1046.6	1067.1
2015-208	Rad	GELC	CAPA-14-87154	10/30/14	R-56 S1	945	965.6
2015-228	Rad	ARSL	CAPA-14-87204	10/30/14	R-56 S1	945	965.6
2015-228	Rad	ARSL	CAPA-14-87182	10/31/14	R-20 S1	904.6	912.2
2015-228	Rad	ARSL	CAPA-14-87205	10/30/14	R-56 S2	1046.6	1067.1
2015-228	Rad	ARSL	CAPA-14-87154	10/30/14	R-56 S1	945	965.6
2015-79	Inorganic	GELC	CAMO-14-87143	10/14/14	R-37 S2	1026	1046.6
2015-79	Inorganic	GELC	CAMO-14-87136	10/14/14	R-37 S2	1026	1046.6
2015-79	Organic	GELC	CAMO-14-87136	10/14/14	R-37 S2	1026	1046.6
2015-79	Rad	GELC	CAMO-14-87136	10/14/14	R-37 S2	1026	1046.6
2015-80	Inorganic	GELC	CAPA-14-87121	10/14/14	03-B-13	21.5	31.5

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-80	Inorganic	GELC	CAPA-14-87122	10/14/14	03-B-13	21.5	31.5
2015-80	Organic	GELC	CAPA-14-87121	10/14/14	03-B-13	21.5	31.5
2015-84	Organic	SHEALY	CAMO-14-87136	10/14/14	R-37 S2	1026	1046.6
2015-89	Inorganic	GELC	CAMO-14-87142	10/15/14	R-37 S1	929.3	950
2015-89	Inorganic	GELC	CAMO-14-87145	10/15/14	R-55 S1	860	880.6
2015-89	Inorganic	GELC	CAMO-14-87126	10/15/14	R-55 S2	994.4	1015.4
2015-89	Inorganic	GELC	CAMO-14-87146	10/15/14	R-55 S2	994.4	1015.4
2015-89	Inorganic	GELC	CAMO-14-87138	10/15/14	R-55 S1	860	880.6
2015-89	Inorganic	GELC	CAMO-14-87135	10/15/14	R-37 S1	929.3	950
2015-89	Inorganic	GELC	CAMO-14-87139	10/15/14	R-55 S2	994.4	1015.4
2015-89	Inorganic	GELC	CAMO-14-87127	10/15/14	R-55 S2	994.4	1015.4
2015-89	Organic	GELC	CAMO-14-87126	10/15/14	R-55 S2	994.4	1015.4
2015-89	Organic	GELC	CAMO-14-87135	10/15/14	R-37 S1	929.3	950
2015-89	Organic	GELC	CAMO-14-87138	10/15/14	R-55 S1	860	880.6
2015-89	Organic	GELC	CAMO-14-87139	10/15/14	R-55 S2	994.4	1015.4
2015-89	Rad	GELC	CAMO-14-87126	10/15/14	R-55 S2	994.4	1015.4
2015-89	Rad	GELC	CAMO-14-87138	10/15/14	R-55 S1	860	880.6
2015-89	Rad	GELC	CAMO-14-87135	10/15/14	R-37 S1	929.3	950
2015-89	Rad	GELC	CAMO-14-87139	10/15/14	R-55 S2	994.4	1015.4
2015-90	Organic	SHEALY	CAMO-14-87126	10/15/14	R-55 S2	994.4	1015.4
2015-90	Organic	SHEALY	CAMO-14-87135	10/15/14	R-37 S1	929.3	950
2015-90	Organic	SHEALY	CAMO-14-87138	10/15/14	R-55 S1	860	880.6
2015-90	Organic	SHEALY	CAMO-14-87139	10/15/14	R-55 S2	994.4	1015.4
2015-92	Rad	ARSL	CAMO-14-87126	10/15/14	R-55 S2	994.4	1015.4
2015-92	Rad	ARSL	CAMO-14-87138	10/15/14	R-55 S1	860	880.6
2015-92	Rad	ARSL	CAMO-14-87135	10/15/14	R-37 S1	929.3	950
2015-92	Rad	ARSL	CAMO-14-87139	10/15/14	R-55 S2	994.4	1015.4
2015-92	Rad	ARSL	CAMO-14-87136	10/14/14	R-37 S2	1026	1046.6
2015-97	Inorganic	GELC	CAPA-14-87198	10/16/14	R-52 S1	1035.2	1055.7
2015-97	Inorganic	GELC	CAPA-14-87233	10/16/14	R-57 S2	971.5	992.1
2015-97	Inorganic	GELC	CAPA-14-87207	10/16/14	R-57 S2	971.5	992.1
2015-97	Inorganic	GELC	CAPA-14-87224	10/16/14	R-52 S1	1035.2	1055.7
2015-97	Inorganic	GELC	CAPA-14-87225	10/16/14	R-52 S2	1107	1117
2015-97	Inorganic	GELC	CAPA-14-87199	10/16/14	R-52 S2	1107	1117
2015-97	Inorganic	GELC	CAPA-14-87206	10/16/14	R-57 S1	910	930.5
2015-97	Inorganic	GELC	CAPA-14-87232	10/16/14	R-57 S1	910	930.5
2015-97	Organic	GELC	CAPA-14-87198	10/16/14	R-52 S1	1035.2	1055.7
2015-97	Organic	GELC	CAPA-14-87207	10/16/14	R-57 S2	971.5	992.1
2015-97	Organic	GELC	CAPA-14-87199	10/16/14	R-52 S2	1107	1117

Chain of Custody	Category	Lab	Sample	Date	Location	Screen Top Depth (ft)	Screen Bottom Depth (ft)
2015-97	Organic	GELC	CAPA-14-87206	10/16/14	R-57 S1	910	930.5
2015-97	Rad	GELC	CAPA-14-87198	10/16/14	R-52 S1	1035.2	1055.7
2015-97	Rad	GELC	CAPA-14-87207	10/16/14	R-57 S2	971.5	992.1
2015-97	Rad	GELC	CAPA-14-87199	10/16/14	R-52 S2	1107	1117
2015-97	Rad	GELC	CAPA-14-87206	10/16/14	R-57 S1	910	930.5

[a] Rad = Radiochemistry (not gamma).

[b] ARSL = American Radiation Services, Inc.

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

[d] SHEALY = Shealy Environmental Services, Inc.