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**Periodic Monitoring Report for  
Technical Area 54  
Monitoring Group,  
October 20–November 4, 2011**


Prepared by the Environmental Programs Directorate

Los Alamos National Laboratory, operated by Los Alamos National Security, LLC, for the U.S. Department of Energy under Contract No. DE-AC52-06NA25396, has prepared this document pursuant to the Compliance Order on Consent, signed March 1, 2005. The Compliance Order on Consent contains requirements for the investigation and cleanup, including corrective action, of contamination at Los Alamos National Laboratory. The U.S. government has rights to use, reproduce, and distribute this document. The public may copy and use this document without charge, provided that this notice and any statement of authorship are reproduced on all copies.

# Periodic Monitoring Report for Technical Area 54 Monitoring Group, October 20–November 4, 2011

May 2012

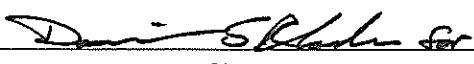
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## **EXECUTIVE SUMMARY**

This periodic monitoring report (PMR) provides the results of the fiscal year 2012, first quarter periodic monitoring event (PME) conducted by Los Alamos National Laboratory in the Technical Area 54 (TA-54) Monitoring Group. This PME was conducted pursuant to the 2011 Interim Facility-Wide Groundwater Monitoring Plan, prepared in accordance with the Compliance Order on Consent.

The PME documented in this report occurred from October 20 to November 4, 2011, and included monitoring of groundwater wells or 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 the current PME are also included in this report.

Water samples collected during this PME were analyzed for target analyte list metals, volatile organic compounds, cyanide, semivolatile organic compounds, pesticides, polychlorinated biphenyls, high explosives, radionuclides, low-level tritium, inorganic chemicals, perchlorate, stable isotopes, and field parameters (alkalinity, dissolved oxygen, pH, specific conductance, temperature, and turbidity).

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

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



**CONTENTS**

**1.0 INTRODUCTION ..... 1**  
 1.1 Background..... 1

**2.0 SCOPE OF ACTIVITIES ..... 2**

**3.0 MONITORING RESULTS ..... 2**  
 3.1 Methods and Procedures ..... 2  
 3.2 Field Parameter Results ..... 2  
 3.3 Water-Level Observations ..... 2  
 3.4 Deviations from Planned Scope ..... 3

**4.0 ANALYTICAL DATA RESULTS..... 3**  
 4.1 Methods and Procedures ..... 3  
 4.2 Analytical Data..... 3  
     4.2.1 Surface Water (Base Flow) ..... 5  
     4.2.2 Groundwater..... 5  
 4.3 Sampling Program Modifications ..... 6

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

**6.0 REFERENCES ..... 7**

**Figures**

Figure 2.0-1 Locations monitored for this PME ..... 9  
 Figure 4.2-1 Monitoring group filtered manganese concentrations in µg/L..... 10

**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 ..... 13  
 Table 3.4-2 Analytes with PQLs above 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 ..... 15

**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 Analytical Chemistry Screening Results
- Appendix E Analytical Chemistry Graphs of Screening-Level Exceedances
- Appendix F Analytical Reports (on DVD included with this document)

**Plate**

- Plate 1 Groundwater elevations



## Acronyms and Abbreviations

AQA	Analytical Quality Associates, Inc.
BCG	Biota Concentration Guide (DOE)
CAS	Chemical Abstracts Service
CFR	Code of Federal Regulations (U.S.)
cfs	cubic feet per second
Consent Order	Compliance Order on Consent
DCG	Derived Concentration Guide (DOE)
DOE	Department of Energy (U.S.)
EPA	Environmental Protection Agency (U.S.)
F	filtered
GW	groundwater
IFGMP	Interim Facility-Wide Groundwater Monitoring Plan
LANL	Los Alamos National Laboratory
MCL	maximum contaminant level (EPA)
MCPA	2-methyl-4-chlorophenoxyacetic acid
MCPP	2-(4-chloro-2-methylphenoxy)propanoic acid
MDA	material disposal area
MDL	method detection limit
NMED	New Mexico Environment Department
NMWQCC	New Mexico Water Quality Control Commission
NTU	nephelometric turbidity unit(s)
PME	periodic monitoring event
PMR	periodic monitoring report
PQL	practical quantitation limit
QC	quality control
RPF	Records Processing Facility
SOP	standard operating procedure
STD	standard
SU	standard unit
TA	technical area



## 1.0 INTRODUCTION

This periodic monitoring report (PMR) provides documentation of fiscal year 2012, first quarter, quarterly groundwater monitoring conducted by Los Alamos National Laboratory (LANL or the Laboratory) for the Technical Area 54 (TA-54) Monitoring Group pursuant to the Interim Facility-Wide Groundwater Monitoring Plan (IFGMP) (LANL 2011, 205231), prepared in accordance with the Compliance Order on Consent (Consent Order). This periodic monitoring event (PME) occurred from October 20 to November 4, 2011, and included sampling at groundwater wells or well ports. This report also includes any results from samples collected during previous PMEs that were unreported in their respective PMRs because validated laboratory data were not available (in some cases because of data release agreements). Any additional results from sampling that occurred outside the time frame of the current PME are also included in this report.

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 screening levels and results from previous reports)
- a summary based on the data and the screening analysis

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

### 1.1 Background

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

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

Mesita del Buey is a 100-ft- to 140-ft-high finger-shaped mesa that trends southeast. The elevation of Mesita del Buey ranges from 6750 ft to 6670 ft above mean sea level 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 vapor-phase contaminants 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 volatile 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 evaluations 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 2011 IFGMP (LANL 2011, 205231).

Table 2.0-1 provides the location name, port name, updated location name (because of database change), sample collection date, screened interval, top and bottom screen depths, casing volume, purge volume, and purge rate for each of the monitored locations. These locations are shown in Figure 2.0-1.

## **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 2011 IFGMP (LANL 2011, 205231).

### **3.2 Field Parameter Results**

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

### **3.3 Water-Level Observations**

The periodic monitoring water-level data for the previous 3 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 practical quantitation limits (PQLs) are greater than screening levels.

## **4.0 ANALYTICAL DATA RESULTS**

### **4.1 Methods and Procedures**

All methods and procedures used to perform the analytical activities of the PMEs are documented in the 2011 IFGMP (LANL 2011, 205231). 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-010.2, Land Application of Groundwater. ENV-RCRA-QP-010.2 implements the NMED-approved Notice of Intent Decision Tree for land application of drilling, development, rehabilitation, and sampling 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 quality program and procedures are available at <http://www.lanl.gov/environment/all/qa.shtml>. Completed chain-of-custody forms serve as an analytical request form 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 was 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 were 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 by an independent contractor, Analytical Quality Associates, Inc. (AQA). 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.

The Laboratory assigns detection status to the analytical result based on the analytical laboratory and secondary validation qualifiers. A "<" symbol indicates that, based on the qualifiers, the result was a nondetect.

### **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) are provided in Appendix F (on DVD 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, are not included in the data set.
  - ❖ Field duplicates, reanalyses, field blanks, trip blanks, equipment blanks, 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.
  - ❖ Low-detection-limit tritium results greater than 3 times the 1 standard deviation total propagated analytical uncertainty are considered to be detections.
  - ❖ Otherwise, all results are reported at all locations.
- Nonradionuclides
  - ❖ All results, excluding nondetections, are reported.

The results of data screening for this PMR are presented in Appendix D. These tables show all detected analytical results for perchlorate, radionuclides, and organic compounds and all analytical results greater than half the lowest applicable screening-level values for metals and general inorganic compounds. Because uranium, gross alpha, and gross beta are usually detected in water samples and to focus on the higher measurements, the tables include only occurrences of these measurements above threshold values. (All of the detected results are included in Appendix C.) The threshold levels are 5 µg/L for uranium, 5 pCi/L for gross alpha, and 20 pCi/L for gross beta, which are lower than the respective screening levels (30 µg/L for uranium, 15 pCi/L for gross alpha, and 50 pCi/L for gross beta). The sources of screening levels with which the results are compared are listed in Table 4.2-1.

Data for PMRs are evaluated using the following screening process.

- 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 through 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 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 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 a 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 values are used for screening.
- The NMWQCC groundwater standards apply to the dissolved (filtered) portion of specified contaminants; however, the standards for mercury, organic compounds, and nonaqueous-phase liquids apply to the total unfiltered concentrations of the contaminants. EPA MCLs are applied to both filtered and unfiltered sample results.
- The analytical results for radioactivity are compared with the DOE Biota Concentration Guides (BCGs) for surface water and Derived Concentration Guides (DCGs) for groundwater.

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 were 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. The concentration of the analyte is 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.

Figure 4.2-1 shows concentrations at all locations from the current PME for analytes that exceeded their screening level at more than one sampling location. For example, filtered manganese was above the NMWQCC groundwater screening level at more than one well, so all available manganese values from the current PME are shown in addition to the screening-level exceedances, which are displayed in yellow boxes.

#### **4.2.1 Surface Water (Base Flow)**

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

#### **4.2.2 Groundwater**

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

For the current PME, the filtered manganese result of 374  $\mu\text{g/L}$  at intermediate well R-55i was above the 200  $\mu\text{g/L}$  NMWQCC groundwater standard screening level (applicable to domestic water supply). A field duplicate result was 370  $\mu\text{g/L}$ . Previous manganese concentrations were between 435  $\mu\text{g/L}$  and 780  $\mu\text{g/L}$ .

The filtered manganese result of 217  $\mu\text{g/L}$  at the 649-ft intermediate screen of well R-40 was above the 200  $\mu\text{g/L}$  NMWQCC groundwater standard screening level (applicable to domestic water supply). Previous manganese concentrations were between 106  $\mu\text{g/L}$  and 398  $\mu\text{g/L}$ .

The filtered aluminum and iron concentrations of 14,200 µg/L and 8730 µg/L at the 916-ft screen of regional aquifer well R-51 were above their respective NMWQCC groundwater standard screening levels of 5000 µg/L and 1000 µg/L (applicable to irrigation and to domestic water supply standards, respectively). Reanalyses of these samples were nondetections; aluminum and iron concentrations were reported as <200 µg/L and <100 µg/L. Previous filtered aluminum and iron results collected since 2010 were all nondetections.

#### **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**

#### **5.1 Monitoring Results**

The field parameter monitoring results are presented in Appendix A.

#### **5.2 Analytical Results**

##### **5.2.1 Surface Water (Base Flow)**

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

##### **5.2.2 Groundwater**

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

For results above screening levels, except for the filtered aluminum and iron concentrations at the 916-ft screen of regional aquifer well R-51 (for which sample reanalysis results were nondetect), the types of contaminants detected and their concentrations are consistent with data reported from previous monitoring events in this monitoring group.

#### **5.3 Data Gaps**

Table 3.4-1 summarizes the field deviations encountered during this PME. The table 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. This information is also included in text citations. ER IDs are assigned by the Environmental Programs Directorate's Records Processing Facility (RPF) and are used to locate the document at the RPF and, where applicable, in the master reference set.*

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

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

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

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

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

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

LANL (Los Alamos National Laboratory), August 2011. "2011 Interim Facility-Wide Groundwater Monitoring Plan," Los Alamos National Laboratory document LA-UR-11-2183, Los Alamos, New Mexico. (LANL 2011, 205231)

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

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

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



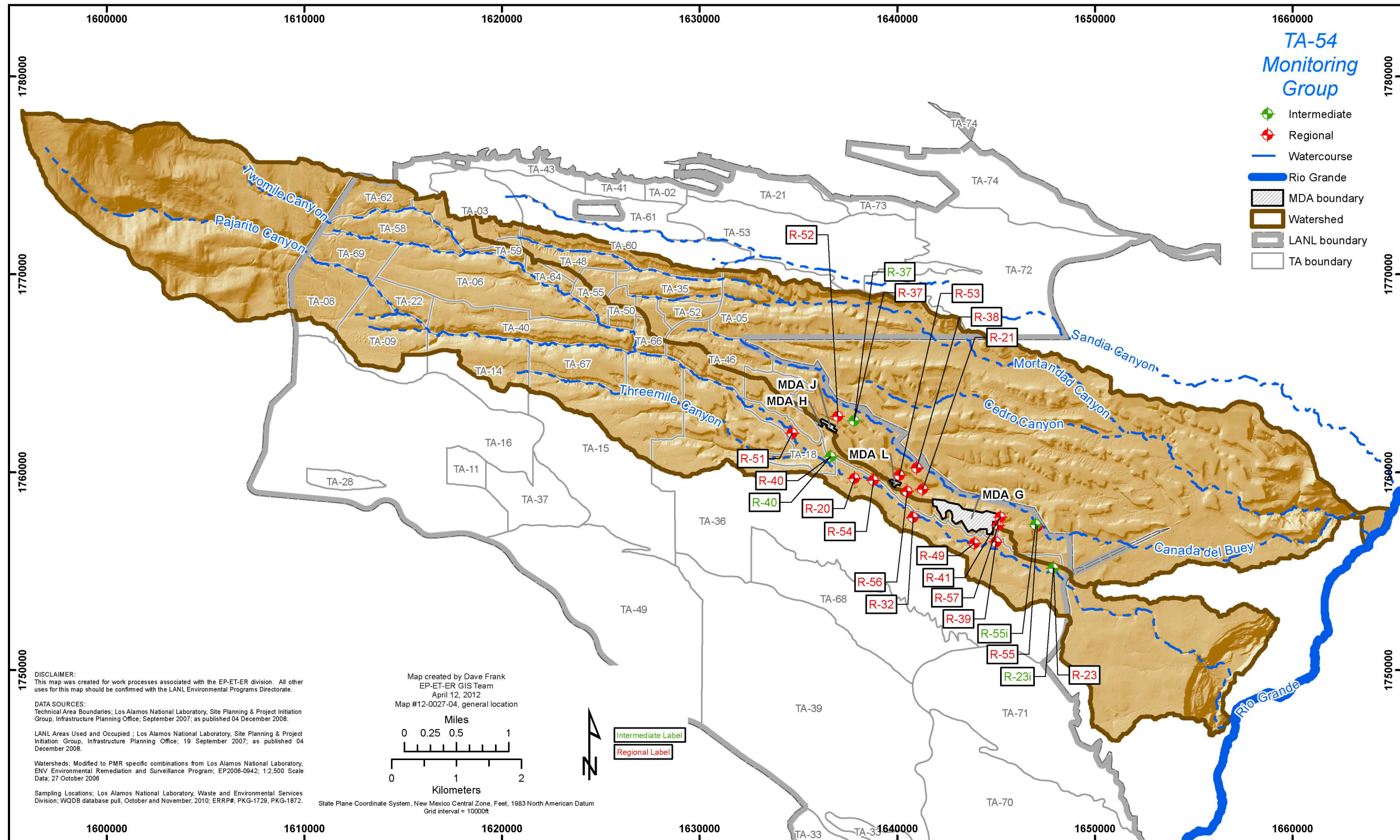


Figure 2.0-1 Locations monitored for this PME. Some locations on this map may not have been sampled (see Table 3.4-1).



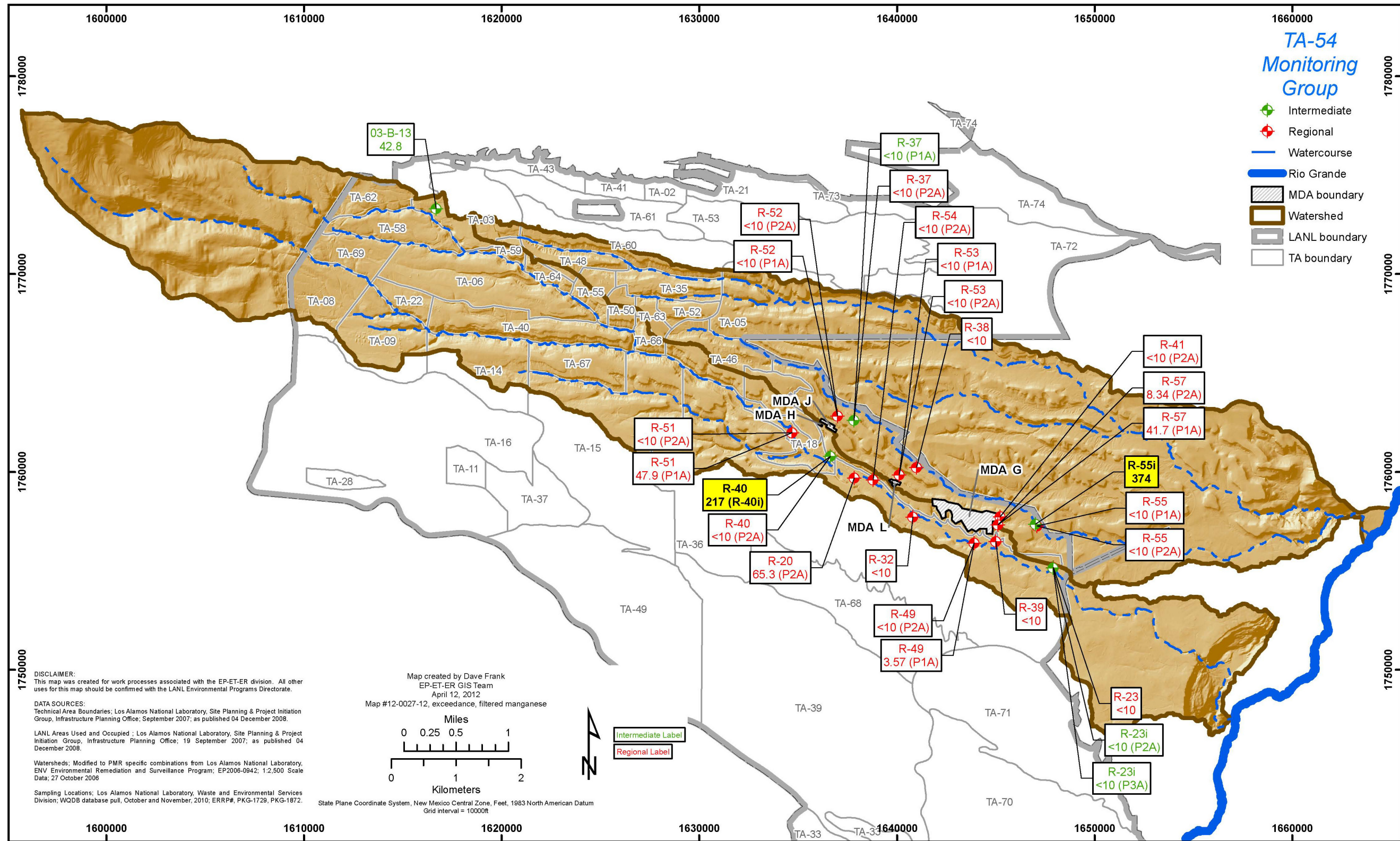


Figure 4.2-1 Monitoring group filtered manganese concentrations in µg/L. The NMWQCC groundwater standard screening level is 200 µg/L.

**Table 2.0-1  
TA-54 Monitoring Group Locations and General Information**

Location Name	Port Name	Updated Location Name	Sample Collection Date	Screened Interval (ft)	Top Screen Depth (ft)	Bottom Screen Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge-Rate (cfs*)
<b>Intermediate</b>									
R-23i	P1A	R-23i S1	11/04/11	19.7	400.3	420	3.1	12.6	0.0020
R-23i	P2A	R-23i S2	10/20/11	9.9	470.2	480.1	37.8	120	0.0027
R-23i	P3A	R-23i S3	10/26/11	23	524	547	42.5	127	0.0042
R-37	P1A	R-37 S1	10/28/11	20.7	929.3	950	52.1	157	0.0017
R-40	R-40i	R-40 Si	11/01/11	19.35	649.67	669.02	12.6	152	0.0014
R-40	P1A	R-40 S1	10/31/11	33.47	751.59	785.06	28.7	33.5	0.0006
R-55i	Single	R-55i	11/01/11	21.1	510	531.1	44.3	443	0.0049
<b>Regional</b>									
R-20	P1A	R-20 S1	11/03/11	7.6	904.6	912.2	76.7	27.5	0.0006
R-20	P2A	R-20 S2	10/27/11	7.6	1147.1	1154.7	41.02	176	0.0035
R-21	Single	R-21	11/03/11	18	888.8	906.8	204.7	647	0.0071
R-23	Single	R-23	10/26/11	57.2	816	873.2	45.5	167	0.0218
R-32	Single	R-32	10/20/11	7.7	867.5	875.2	88.7	266	0.0045
R-37	P2A	R-37 S2	10/31/11	20.6	1026	1046.6	55	180.6	0.0192
R-38	Single	R-38	10/25/11	10	821.2	831.2	42.9	131	0.0061
R-39	Single	R-39	10/27/11	10	859	869	48.6	146	0.0067
R-40	P2A	R-40 S2	10/20/11	20.73	849.27	870	40.6	143.1	0.0049
R-41	P2A	R-41 S2	10/25/11	9.7	965.3	975	36.878	114.14	0.0068
R-49	P1A	R-49 S1	10/26/11	10	845	855	79.4	243	0.0050
R-49	P2A	R-49 S2	10/27/11	20.8	905.6	926.4	58.1	210	0.0051
R-51	P1A	R-51 S1	10/21/11	10.28	914.96	925.24	62.6	221	0.0084
R-51	P2A	R-51 S2	10/21/11	10.04	1031	1041	91	273	0.0084
R-52	P1A	R-52 S1	11/01/11	20.5	1035.2	1055.7	65.4	197.2	0.0076
R-52	P2A	R-52 S1	11/01/11	10	1107	1117	43	148.5	0.0074

**Table 2.0-1 (continued)**

Location Name	Port Name	Updated Location Name	Sample Collection Date	Screen Interval (ft)	Top Screen Depth (ft)	Bottom Screen Depth (ft)	Calculated Single Casing Volume (gal.)	Purge Volume (gal.)	Purge-Rate (cfs*)
R-53	P1A	R-53 S1	10/25/11	10	849.2	859.2	76.9	235	0.0078
R-53	P2A	R-53 S2	10/25/11	20.5	959.7	980.2	93.6	281	0.0089
R-54	P1A	R-54 S1	11/02/11	10	830	840	55.4	1179	0.0067
R-54	P2A	R-54 S2	10/31/11	10	915	925	61.2	188.5	0.0065
R-55	P1A	R-55 S1	10/28/11	20.6	860	880.6	111.8	366.8	0.0062
R-55	P2A	R-55 S2	10/31/11	21	994.4	1015.4	72.4	219.8	0.0058
R-56	P1A	R-56 S1	11/02/11	20.6	945	965.6	86	258	0.0089
R-56	P2A	R-56 S2	11/02/11	20.5	1046.6	1067.1	68.8	207	0.0089
R-57	P1A	R-57 S1	10/21/11	20.5	910	930.5	70.6	240	0.0074
R-57	P2A	R-57 S2	10/21/11	20.6	971.5	992.1	51	237	0.0074

\*cfs = Cubic feet per second.

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

Location	Deviation	Cause	Comment
R-20 Screen 1	No data are included in this report for this location.	The location was not sampled because the pump failed during purging.	This location will be sampled during the next scheduled PME.

**Table 3.4-2  
Analytes with PQLs above Screening Levels**

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

**Table 3.4-2 (continued)**

Analyte or CAS <sup>a</sup> No.	Analyte Name	MDL <sup>b</sup>	PQL	Screening Level	Unit	Screening-Level Type
<b>Volatile Organic Analytes</b>						
107-02-8	Acrolein	1.3	5	0.042	µg/L	EPA Regional Tap
107-13-1	Acrylonitrile	1	5	0.45	µg/L	EPA Regional Tap
126-99-8	Chloro-1,3-butadiene[2-]	0.3	1	0.16	µg/L	EPA Regional Tap
96-12-8	Dibromo-3-Chloropropane[1,2-]	0.3	1	0.2	µg/L	EPA MCL
106-93-4	Dibromoethane[1,2-]	0.25	1	0.05	µg/L	EPA MCL
126-98-7	Methacrylonitrile	1	5	1	µg/L	EPA Regional Tap
75-09-2	Methylene Chloride	3	10	5	µg/L	EPA MCL
96-18-4	Trichloropropane[1,2,3-]	0.3	1	0.0072	µg/L	EPA Regional Tap

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

<sup>a</sup> CAS = Chemical Abstracts Service.

<sup>b</sup> MDL = Method detection limit.

<sup>c</sup> MCPA = 2-Methyl-4-chlorophenoxyacetic acid.

<sup>d</sup> MCPP = 2-(4-Chloro-2-methylphenoxy)propanoic acid.

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

Standard Source	Standard Type	Groundwater	Surface Water
DOE Order 5400.5	DOE BCGs	n/a <sup>a</sup>	X <sup>b</sup>
DOE Order 5400.5	DOE 100-mrem Public Dose DCG	X	n/a
DOE Order 5400.5	DOE 4-mrem Drinking Water DCG	X	n/a
40 CFR 141 <sup>c</sup>	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

<sup>a</sup> n/a = Not applicable.

<sup>b</sup> X = applied to data screen for this report.

<sup>c</sup> 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
<b>Intermediate Groundwater</b>							
R-55i	11/01/11	Manganese	F*	374	µg/L	200	NMWQCC GW STD
R-40	11/01/11	Manganese	F	217	µg/L	200	NMWQCC GW STD
<b>Regional Aquifer</b>							
R-51	10/21/11	Aluminum	F	14,200	µg/L	5000	NMWQCC GW STD
R-51	10/21/11	Iron	F	8730	µg/L	1000	NMWQCC GW STD

\* F = Filtered.



## **Appendix A**

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



Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20	1147.1	01/21/11	WG <sup>a</sup>	Dissolved Oxygen	2.96	mg/L	CAPA-11-3489
R-20	1147.1	01/21/11	WG	Dissolved Oxygen	2.99	mg/L	CAPA-11-3010
R-20	1147.1	04/25/11	WG	Dissolved Oxygen	2.41	mg/L	CAPA-11-9314
R-20	1147.1	07/25/11	WG	Dissolved Oxygen	2.52	mg/L	CAPA-11-22881
R-20	1147.1	10/27/11	WG	Dissolved Oxygen	2.6	mg/L	CAPA-12-1138
R-20	1147.1	01/21/11	WG	Oxidation Reduction Potential	239.2	mV	CAPA-11-3489
R-20	1147.1	01/21/11	WG	Oxidation Reduction Potential	231.2	mV	CAPA-11-3010
R-20	1147.1	04/25/11	WG	Oxidation Reduction Potential	-74.5	mV	CAPA-11-9314
R-20	1147.1	07/25/11	WG	Oxidation Reduction Potential	-77.1	mV	CAPA-11-22881
R-20	1147.1	10/27/11	WG	Oxidation Reduction Potential	-33	mV	CAPA-12-1138
R-20	1147.1	01/21/11	WG	pH	7.85	SU <sup>b</sup>	CAPA-11-3489
R-20	1147.1	01/21/11	WG	pH	7.86	SU	CAPA-11-3010
R-20	1147.1	04/25/11	WG	pH	7.94	SU	CAPA-11-9314
R-20	1147.1	07/25/11	WG	pH	7.96	SU	CAPA-11-22881
R-20	1147.1	10/27/11	WG	pH	7.93	SU	CAPA-12-1138
R-20	1147.1	01/21/11	WG	Specific Conductance	129	μS/cm	CAPA-11-3489
R-20	1147.1	01/21/11	WG	Specific Conductance	128	μS/cm	CAPA-11-3010
R-20	1147.1	04/25/11	WG	Specific Conductance	142	μS/cm	CAPA-11-9314
R-20	1147.1	07/25/11	WG	Specific Conductance	144	μS/cm	CAPA-11-22881
R-20	1147.1	10/27/11	WG	Specific Conductance	142	μS/cm	CAPA-12-1138
R-20	1147.1	01/21/11	WG	Temperature	19.24	deg C	CAPA-11-3489
R-20	1147.1	01/21/11	WG	Temperature	20.48	deg C	CAPA-11-3010
R-20	1147.1	04/25/11	WG	Temperature	19.58	deg C	CAPA-11-9314
R-20	1147.1	07/25/11	WG	Temperature	20.45	deg C	CAPA-11-22881
R-20	1147.1	10/27/11	WG	Temperature	18.32	deg C	CAPA-12-1138
R-20	1147.1	01/21/11	WG	Turbidity	0.37	NTU <sup>c</sup>	CAPA-11-3489
R-20	1147.1	01/21/11	WG	Turbidity	0.35	NTU	CAPA-11-3010
R-20	1147.1	04/25/11	WG	Turbidity	0.69	NTU	CAPA-11-9314

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-20	1147.1	07/25/11	WG	Turbidity	0.44	NTU	CAPA-11-22881
R-20	1147.1	10/27/11	WG	Turbidity	0.53	NTU	CAPA-12-1138
R-21	888.8	10/11/10	WG	Dissolved Oxygen	5.33	mg/L	CAPA-10-27382
R-21	888.8	01/27/11	WG	Dissolved Oxygen	5.25	mg/L	CAPA-11-3013
R-21	888.8	04/19/11	WG	Dissolved Oxygen	6.29	mg/L	CAPA-11-9316
R-21	888.8	07/21/11	WG	Dissolved Oxygen	6.2	mg/L	CAPA-11-22884
R-21	888.8	11/03/11	WG	Dissolved Oxygen	6.25	mg/L	CAPA-12-1173
R-21	888.8	10/11/10	WG	Oxidation Reduction Potential	89.4	mV	CAPA-10-27382
R-21	888.8	01/27/11	WG	Oxidation Reduction Potential	74.1	mV	CAPA-11-3013
R-21	888.8	04/19/11	WG	Oxidation Reduction Potential	149.2	mV	CAPA-11-9316
R-21	888.8	07/21/11	WG	Oxidation Reduction Potential	85	mV	CAPA-11-22884
R-21	888.8	11/03/11	WG	Oxidation Reduction Potential	124.1	mV	CAPA-12-1173
R-21	888.8	10/11/10	WG	pH	7.87	SU	CAPA-10-27382
R-21	888.8	01/27/11	WG	pH	7.91	SU	CAPA-11-3013
R-21	888.8	04/19/11	WG	pH	8.03	SU	CAPA-11-9316
R-21	888.8	07/21/11	WG	pH	8	SU	CAPA-11-22884
R-21	888.8	11/03/11	WG	pH	7.99	SU	CAPA-12-1173
R-21	888.8	10/11/10	WG	Specific Conductance	126	µS/cm	CAPA-10-27382
R-21	888.8	01/27/11	WG	Specific Conductance	124	µS/cm	CAPA-11-3013
R-21	888.8	04/19/11	WG	Specific Conductance	127	µS/cm	CAPA-11-9316
R-21	888.8	07/21/11	WG	Specific Conductance	128	µS/cm	CAPA-11-22884
R-21	888.8	11/03/11	WG	Specific Conductance	126	µS/cm	CAPA-12-1173
R-21	888.8	10/11/10	WG	Temperature	20.64	deg C	CAPA-10-27382
R-21	888.8	01/27/11	WG	Temperature	21.05	deg C	CAPA-11-3013
R-21	888.8	04/19/11	WG	Temperature	21.33	deg C	CAPA-11-9316
R-21	888.8	07/21/11	WG	Temperature	21.49	deg C	CAPA-11-22884
R-21	888.8	11/03/11	WG	Temperature	20.19	deg C	CAPA-12-1173
R-21	888.8	10/11/10	WG	Turbidity	0.21	NTU	CAPA-10-27382

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-21	888.8	01/27/11	WG	Turbidity	0.2	NTU	CAPA-11-3013
R-21	888.8	04/19/11	WG	Turbidity	0.22	NTU	CAPA-11-9316
R-21	888.8	07/21/11	WG	Turbidity	0.3	NTU	CAPA-11-22884
R-21	888.8	11/03/11	WG	Turbidity	0.51	NTU	CAPA-12-1173
R-23	816	10/22/10	WG	Dissolved Oxygen	7.78	mg/L	CAPA-10-27384
R-23	816	01/24/11	WG	Dissolved Oxygen	5.57	mg/L	CAPA-11-2976
R-23	816	04/18/11	WG	Dissolved Oxygen	6.92	mg/L	CAPA-11-9588
R-23	816	07/22/11	WG	Dissolved Oxygen	6.91	mg/L	CAPA-11-22870
R-23	816	10/26/11	WG	Dissolved Oxygen	6.93	mg/L	CAPA-12-1139
R-23	816	10/22/10	WG	Oxidation Reduction Potential	279.5	mV	CAPA-10-27384
R-23	816	01/24/11	WG	Oxidation Reduction Potential	207.4	mV	CAPA-11-2976
R-23	816	04/18/11	WG	Oxidation Reduction Potential	103.1	mV	CAPA-11-9588
R-23	816	07/22/11	WG	Oxidation Reduction Potential	119.3	mV	CAPA-11-22870
R-23	816	10/26/11	WG	Oxidation Reduction Potential	134.8	mV	CAPA-12-1139
R-23	816	10/22/10	WG	pH	7.8	SU	CAPA-10-27384
R-23	816	01/24/11	WG	pH	7.69	SU	CAPA-11-2976
R-23	816	04/18/11	WG	pH	8.07	SU	CAPA-11-9588
R-23	816	07/22/11	WG	pH	8.05	SU	CAPA-11-22870
R-23	816	10/26/11	WG	pH	8.03	SU	CAPA-12-1139
R-23	816	10/22/10	WG	Specific Conductance	169	μS/cm	CAPA-10-27384
R-23	816	01/24/11	WG	Specific Conductance	166	μS/cm	CAPA-11-2976
R-23	816	04/18/11	WG	Specific Conductance	172	μS/cm	CAPA-11-9588
R-23	816	07/22/11	WG	Specific Conductance	174	μS/cm	CAPA-11-22870
R-23	816	10/26/11	WG	Specific Conductance	166	μS/cm	CAPA-12-1139
R-23	816	10/22/10	WG	Temperature	21.39	deg C	CAPA-10-27384
R-23	816	01/24/11	WG	Temperature	18.74	deg C	CAPA-11-2976
R-23	816	04/18/11	WG	Temperature	21.99	deg C	CAPA-11-9588
R-23	816	07/22/11	WG	Temperature	21.82	deg C	CAPA-11-22870

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23	816	10/26/11	WG	Temperature	21.21	deg C	CAPA-12-1139
R-23	816	10/22/10	WG	Turbidity	0.49	NTU	CAPA-10-27384
R-23	816	01/24/11	WG	Turbidity	0.53	NTU	CAPA-11-2976
R-23	816	04/18/11	WG	Turbidity	0.69	NTU	CAPA-11-9588
R-23	816	07/22/11	WG	Turbidity	1.26	NTU	CAPA-11-22870
R-23	816	10/26/11	WG	Turbidity	0.57	NTU	CAPA-12-1139
R-23i	400.3	10/21/10	WG	Dissolved Oxygen	6.98	mg/L	CAPA-10-26931
R-23i	400.3	01/14/11	WG	Dissolved Oxygen	5.41	mg/L	CAPA-11-2958
R-23i	400.3	04/28/11	WG	Dissolved Oxygen	6.8	mg/L	CAPA-11-9568
R-23i	400.3	07/25/11	WG	Dissolved Oxygen	6.62	mg/L	CAPA-11-22843
R-23i	400.3	11/04/11	WG	Dissolved Oxygen	6.74	mg/L	CAPA-12-1113
R-23i	400.3	10/21/10	WG	Oxidation Reduction Potential	417.5	mV	CAPA-10-26931
R-23i	400.3	01/14/11	WG	Oxidation Reduction Potential	250	mV	CAPA-11-2958
R-23i	400.3	04/28/11	WG	Oxidation Reduction Potential	172.2	mV	CAPA-11-9568
R-23i	400.3	07/25/11	WG	Oxidation Reduction Potential	203.1	mV	CAPA-11-22843
R-23i	400.3	11/04/11	WG	Oxidation Reduction Potential	219.2	mV	CAPA-12-1113
R-23i	400.3	10/21/10	WG	pH	7.27	SU	CAPA-10-26931
R-23i	400.3	01/14/11	WG	pH	7.62	SU	CAPA-11-2958
R-23i	400.3	04/28/11	WG	pH	7.55	SU	CAPA-11-9568
R-23i	400.3	07/25/11	WG	pH	7.65	SU	CAPA-11-22843
R-23i	400.3	11/04/11	WG	pH	7.58	SU	CAPA-12-1113
R-23i	400.3	10/21/10	WG	Specific Conductance	296	µS/cm	CAPA-10-26931
R-23i	400.3	01/14/11	WG	Specific Conductance	277	µS/cm	CAPA-11-2958
R-23i	400.3	04/28/11	WG	Specific Conductance	275	µS/cm	CAPA-11-9568
R-23i	400.3	07/25/11	WG	Specific Conductance	295	µS/cm	CAPA-11-22843
R-23i	400.3	11/04/11	WG	Specific Conductance	275	µS/cm	CAPA-12-1113
R-23i	400.3	10/21/10	WG	Temperature	14.6	deg C	CAPA-10-26931
R-23i	400.3	01/14/11	WG	Temperature	14.15	deg C	CAPA-11-2958



Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i	400.3	04/28/11	WG	Temperature	15.17	deg C	CAPA-11-9568
R-23i	400.3	07/25/11	WG	Temperature	18	deg C	CAPA-11-22843
R-23i	400.3	11/04/11	WG	Temperature	13.8	deg C	CAPA-12-1113
R-23i	400.3	10/21/10	WG	Turbidity	4.6	NTU	CAPA-10-26931
R-23i	400.3	01/14/11	WG	Turbidity	2.92	NTU	CAPA-11-2958
R-23i	400.3	04/28/11	WG	Turbidity	3.1	NTU	CAPA-11-9568
R-23i	400.3	07/25/11	WG	Turbidity	1.34	NTU	CAPA-11-22843
R-23i	400.3	11/04/11	WG	Turbidity	2.59	NTU	CAPA-12-1113
R-23i	470.2	10/18/10	WG	Dissolved Oxygen	4.66	mg/L	CAPA-10-26945
R-23i	470.2	01/18/11	WG	Dissolved Oxygen	5.06	mg/L	CAPA-11-2962
R-23i	470.2	05/03/11	WG	Dissolved Oxygen	6.02	mg/L	CAPA-11-9574
R-23i	470.2	07/26/11	WG	Dissolved Oxygen	5.72	mg/L	CAPA-11-22677
R-23i	470.2	10/20/11	WG	Dissolved Oxygen	6.16	mg/L	CAPA-12-1119
R-23i	470.2	10/18/10	WG	Oxidation Reduction Potential	56.7	mV	CAPA-10-26945
R-23i	470.2	01/18/11	WG	Oxidation Reduction Potential	349.8	mV	CAPA-11-2962
R-23i	470.2	05/03/11	WG	Oxidation Reduction Potential	260.4	mV	CAPA-11-9574
R-23i	470.2	07/26/11	WG	Oxidation Reduction Potential	214.1	mV	CAPA-11-22677
R-23i	470.2	10/20/11	WG	Oxidation Reduction Potential	117.3	mV	CAPA-12-1119
R-23i	470.2	10/18/10	WG	pH	7.83	SU	CAPA-10-26945
R-23i	470.2	01/18/11	WG	pH	8.02	SU	CAPA-11-2962
R-23i	470.2	05/03/11	WG	pH	8.12	SU	CAPA-11-9574
R-23i	470.2	07/26/11	WG	pH	8.17	SU	CAPA-11-22677
R-23i	470.2	10/20/11	WG	pH	8.12	SU	CAPA-12-1119
R-23i	470.2	10/18/10	WG	Specific Conductance	207	μS/cm	CAPA-10-26945
R-23i	470.2	01/18/11	WG	Specific Conductance	206	μS/cm	CAPA-11-2962
R-23i	470.2	05/03/11	WG	Specific Conductance	190	μS/cm	CAPA-11-9574
R-23i	470.2	07/26/11	WG	Specific Conductance	196	μS/cm	CAPA-11-22677
R-23i	470.2	10/20/11	WG	Specific Conductance	182	μS/cm	CAPA-12-1119

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i	470.2	10/18/10	WG	Temperature	15.98	deg C	CAPA-10-26945
R-23i	470.2	01/18/11	WG	Temperature	15.48	deg C	CAPA-11-2962
R-23i	470.2	05/03/11	WG	Temperature	15.76	deg C	CAPA-11-9574
R-23i	470.2	07/26/11	WG	Temperature	17.36	deg C	CAPA-11-22677
R-23i	470.2	10/20/11	WG	Temperature	15.72	deg C	CAPA-12-1119
R-23i	470.2	10/18/10	WG	Turbidity	1.53	NTU	CAPA-10-26945
R-23i	470.2	01/18/11	WG	Turbidity	0.32	NTU	CAPA-11-2962
R-23i	470.2	05/03/11	WG	Turbidity	0.44	NTU	CAPA-11-9574
R-23i	470.2	07/26/11	WG	Turbidity	1.28	NTU	CAPA-11-22677
R-23i	470.2	10/20/11	WG	Turbidity	0.3	NTU	CAPA-12-1119
R-23i	524	04/18/11	WG	Dissolved Oxygen	6.06	mg/L	CAPA-11-9575
R-23i	524	07/29/11	WG	Dissolved Oxygen	6.6	mg/L	CAPA-11-14694
R-23i	524	07/29/11	WG	Dissolved Oxygen	6.89	mg/L	CAPA-11-14696
R-23i	524	07/29/11	WG	Dissolved Oxygen	6.99	mg/L	CAPA-11-14698
R-23i	524	07/29/11	WG	Dissolved Oxygen	6.99	mg/L	CAPA-11-22845
R-23i	524	10/26/11	WG	Dissolved Oxygen	7.25	mg/L	CAPA-12-1121
R-23i	524	04/18/11	WG	Oxidation Reduction Potential	79.5	mV	CAPA-11-9575
R-23i	524	07/29/11	WG	Oxidation Reduction Potential	141.8	mV	CAPA-11-14694
R-23i	524	07/29/11	WG	Oxidation Reduction Potential	166.1	mV	CAPA-11-14696
R-23i	524	07/29/11	WG	Oxidation Reduction Potential	180.2	mV	CAPA-11-14698
R-23i	524	07/29/11	WG	Oxidation Reduction Potential	180.2	mV	CAPA-11-22845
R-23i	524	10/26/11	WG	Oxidation Reduction Potential	123.7	mV	CAPA-12-1121
R-23i	524	04/18/11	WG	pH	8.23	SU	CAPA-11-9575
R-23i	524	07/29/11	WG	pH	8.15	SU	CAPA-11-14694
R-23i	524	07/29/11	WG	pH	8.18	SU	CAPA-11-14696
R-23i	524	07/29/11	WG	pH	8.2	SU	CAPA-11-14698
R-23i	524	07/29/11	WG	pH	8.2	SU	CAPA-11-22845
R-23i	524	10/26/11	WG	pH	8.2	SU	CAPA-12-1121

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-23i	524	04/18/11	WG	Specific Conductance	189	µS/cm	CAPA-11-9575
R-23i	524	07/29/11	WG	Specific Conductance	199	µS/cm	CAPA-11-14694
R-23i	524	07/29/11	WG	Specific Conductance	183	µS/cm	CAPA-11-14696
R-23i	524	07/29/11	WG	Specific Conductance	198	µS/cm	CAPA-11-14698
R-23i	524	07/29/11	WG	Specific Conductance	198	µS/cm	CAPA-11-22845
R-23i	524	10/26/11	WG	Specific Conductance	200	µS/cm	CAPA-12-1121
R-23i	524	04/18/11	WG	Temperature	16.55	deg C	CAPA-11-9575
R-23i	524	07/29/11	WG	Temperature	17.62	deg C	CAPA-11-14694
R-23i	524	07/29/11	WG	Temperature	17.86	deg C	CAPA-11-14696
R-23i	524	07/29/11	WG	Temperature	18.11	deg C	CAPA-11-14698
R-23i	524	07/29/11	WG	Temperature	18.11	deg C	CAPA-11-22845
R-23i	524	10/26/11	WG	Temperature	17.1	deg C	CAPA-12-1121
R-23i	524	04/18/11	WG	Turbidity	1.19	NTU	CAPA-11-9575
R-23i	524	07/29/11	WG	Turbidity	1.4	NTU	CAPA-11-14694
R-23i	524	07/29/11	WG	Turbidity	0.77	NTU	CAPA-11-14696
R-23i	524	07/29/11	WG	Turbidity	1.37	NTU	CAPA-11-14698
R-23i	524	07/29/11	WG	Turbidity	1.37	NTU	CAPA-11-22845
R-23i	524	10/26/11	WG	Turbidity	0.51	NTU	CAPA-12-1121
R-32	867.5	07/27/11	WG	Dissolved Oxygen	4	mg/L	CAPA-11-14778
R-32	867.5	07/27/11	WG	Dissolved Oxygen	4.75	mg/L	CAPA-11-14780
R-32	867.5	07/27/11	WG	Dissolved Oxygen	4.5	mg/L	CAPA-11-14782
R-32	867.5	07/27/11	WG	Dissolved Oxygen	4.5	mg/L	CAPA-11-22695
R-32	867.5	10/20/11	WG	Dissolved Oxygen	4.2	mg/L	CAPA-12-1143
R-32	867.5	07/27/11	WG	Oxidation Reduction Potential	175.3	mV	CAPA-11-14778
R-32	867.5	07/27/11	WG	Oxidation Reduction Potential	187.6	mV	CAPA-11-14780
R-32	867.5	07/27/11	WG	Oxidation Reduction Potential	188.9	mV	CAPA-11-14782
R-32	867.5	07/27/11	WG	Oxidation Reduction Potential	188.9	mV	CAPA-11-22695
R-32	867.5	10/20/11	WG	Oxidation Reduction Potential	177.6	mV	CAPA-12-1143

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-32	867.5	07/27/11	WG	pH	7.52	SU	CAPA-11-14778
R-32	867.5	07/27/11	WG	pH	6.98	SU	CAPA-11-14780
R-32	867.5	07/27/11	WG	pH	6.95	SU	CAPA-11-14782
R-32	867.5	07/27/11	WG	pH	6.95	SU	CAPA-11-22695
R-32	867.5	10/20/11	WG	pH	6.92	SU	CAPA-12-1143
R-32	867.5	07/27/11	WG	Specific Conductance	169	µS/cm	CAPA-11-14778
R-32	867.5	07/27/11	WG	Specific Conductance	171	µS/cm	CAPA-11-14780
R-32	867.5	07/27/11	WG	Specific Conductance	170	µS/cm	CAPA-11-14782
R-32	867.5	07/27/11	WG	Specific Conductance	170	µS/cm	CAPA-11-22695
R-32	867.5	10/20/11	WG	Specific Conductance	168	µS/cm	CAPA-12-1143
R-32	867.5	07/27/11	WG	Temperature	19.14	deg C	CAPA-11-14778
R-32	867.5	07/27/11	WG	Temperature	19.73	deg C	CAPA-11-14780
R-32	867.5	07/27/11	WG	Temperature	20.16	deg C	CAPA-11-14782
R-32	867.5	07/27/11	WG	Temperature	20.16	deg C	CAPA-11-22695
R-32	867.5	10/20/11	WG	Temperature	19.02	deg C	CAPA-12-1143
R-32	867.5	07/27/11	WG	Turbidity	1.26	NTU	CAPA-11-14778
R-32	867.5	07/27/11	WG	Turbidity	0.68	NTU	CAPA-11-14780
R-32	867.5	07/27/11	WG	Turbidity	0.64	NTU	CAPA-11-14782
R-32	867.5	07/27/11	WG	Turbidity	0.64	NTU	CAPA-11-22695
R-32	867.5	10/20/11	WG	Turbidity	0.67	NTU	CAPA-12-1143
R-37	929.3	10/12/10	WG	Dissolved Oxygen	1.74	mg/L	CAPA-10-26914
R-37	929.3	01/21/11	WG	Dissolved Oxygen	1.46	mg/L	CAPA-11-2990
R-37	929.3	05/03/11	WG	Dissolved Oxygen	1.78	mg/L	CAPA-11-9298
R-37	929.3	07/19/11	WG	Dissolved Oxygen	1.83	mg/L	CAPA-11-22854
R-37	929.3	10/28/11	WG	Dissolved Oxygen	1.82	mg/L	CAPA-12-1127
R-37	929.3	10/12/10	WG	Oxidation Reduction Potential	-13.8	mV	CAPA-10-26914
R-37	929.3	01/21/11	WG	Oxidation Reduction Potential	48.5	mV	CAPA-11-2990
R-37	929.3	05/03/11	WG	Oxidation Reduction Potential	70.4	mV	CAPA-11-9298

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37	929.3	07/19/11	WG	Oxidation Reduction Potential	153.1	mV	CAPA-11-22854
R-37	929.3	10/28/11	WG	Oxidation Reduction Potential	130.1	mV	CAPA-12-1127
R-37	929.3	10/12/10	WG	pH	7.8	SU	CAPA-10-26914
R-37	929.3	01/21/11	WG	pH	8.4	SU	CAPA-11-2990
R-37	929.3	05/03/11	WG	pH	8.04	SU	CAPA-11-9298
R-37	929.3	07/19/11	WG	pH	8.14	SU	CAPA-11-22854
R-37	929.3	10/28/11	WG	pH	8.19	SU	CAPA-12-1127
R-37	929.3	10/12/10	WG	Specific Conductance	235	μS/cm	CAPA-10-26914
R-37	929.3	01/21/11	WG	Specific Conductance	233	μS/cm	CAPA-11-2990
R-37	929.3	05/03/11	WG	Specific Conductance	237	μS/cm	CAPA-11-9298
R-37	929.3	07/19/11	WG	Specific Conductance	239	μS/cm	CAPA-11-22854
R-37	929.3	10/28/11	WG	Specific Conductance	236	μS/cm	CAPA-12-1127
R-37	929.3	10/12/10	WG	Temperature	18.87	deg C	CAPA-10-26914
R-37	929.3	01/21/11	WG	Temperature	17.23	deg C	CAPA-11-2990
R-37	929.3	05/03/11	WG	Temperature	17.74	deg C	CAPA-11-9298
R-37	929.3	07/19/11	WG	Temperature	18.22	deg C	CAPA-11-22854
R-37	929.3	10/28/11	WG	Temperature	17.42	deg C	CAPA-12-1127
R-37	929.3	10/12/10	WG	Turbidity	0.6	NTU	CAPA-10-26914
R-37	929.3	01/21/11	WG	Turbidity	0.77	NTU	CAPA-11-2990
R-37	929.3	05/03/11	WG	Turbidity	0.45	NTU	CAPA-11-9298
R-37	929.3	07/19/11	WG	Turbidity	0.32	NTU	CAPA-11-22854
R-37	929.3	10/28/11	WG	Turbidity	0.57	NTU	CAPA-12-1127
R-37	1026	10/14/10	WG	Dissolved Oxygen	6.6	mg/L	CAPA-10-27394
R-37	1026	01/25/11	WG	Dissolved Oxygen	8.34	mg/L	CAPA-11-3019
R-37	1026	04/26/11	WG	Dissolved Oxygen	7.53	mg/L	CAPA-11-9322
R-37	1026	07/13/11	WG	Dissolved Oxygen	8	mg/L	CAPA-11-22886
R-37	1026	10/31/11	WG	Dissolved Oxygen	6.89	mg/L	CAPA-12-1178
R-37	1026	10/14/10	WG	Oxidation Reduction Potential	182.3	mV	CAPA-10-27394

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-37	1026	01/25/11	WG	Oxidation Reduction Potential	391.7	mV	CAPA-11-3019
R-37	1026	04/26/11	WG	Oxidation Reduction Potential	64.7	mV	CAPA-11-9322
R-37	1026	07/13/11	WG	Oxidation Reduction Potential	95.6	mV	CAPA-11-22886
R-37	1026	10/31/11	WG	Oxidation Reduction Potential	124.2	mV	CAPA-12-1178
R-37	1026	10/14/10	WG	pH	7.83	SU	CAPA-10-27394
R-37	1026	01/25/11	WG	pH	7.87	SU	CAPA-11-3019
R-37	1026	04/26/11	WG	pH	8.05	SU	CAPA-11-9322
R-37	1026	07/13/11	WG	pH	7.95	SU	CAPA-11-22886
R-37	1026	10/31/11	WG	pH	7.89	SU	CAPA-12-1178
R-37	1026	10/14/10	WG	Specific Conductance	137	µS/cm	CAPA-10-27394
R-37	1026	01/25/11	WG	Specific Conductance	135	µS/cm	CAPA-11-3019
R-37	1026	04/26/11	WG	Specific Conductance	130	µS/cm	CAPA-11-9322
R-37	1026	07/13/11	WG	Specific Conductance	118	µS/cm	CAPA-11-22886
R-37	1026	10/31/11	WG	Specific Conductance	135	µS/cm	CAPA-12-1178
R-37	1026	10/14/10	WG	Temperature	22.02	deg C	CAPA-10-27394
R-37	1026	01/25/11	WG	Temperature	21.94	deg C	CAPA-11-3019
R-37	1026	04/26/11	WG	Temperature	20.59	deg C	CAPA-11-9322
R-37	1026	07/13/11	WG	Temperature	22.11	deg C	CAPA-11-22886
R-37	1026	10/31/11	WG	Temperature	19.69	deg C	CAPA-12-1178
R-37	1026	10/14/10	WG	Turbidity	1.29	NTU	CAPA-10-27394
R-37	1026	01/25/11	WG	Turbidity	0.83	NTU	CAPA-11-3019
R-37	1026	04/26/11	WG	Turbidity	1.27	NTU	CAPA-11-9322
R-37	1026	07/13/11	WG	Turbidity	0.57	NTU	CAPA-11-22886
R-37	1026	10/31/11	WG	Turbidity	0.75	NTU	CAPA-12-1178
R-38	821.2	10/11/10	WG	Dissolved Oxygen	6.61	mg/L	CAPA-10-27406
R-38	821.2	01/27/11	WG	Dissolved Oxygen	6	mg/L	CAPA-11-3020
R-38	821.2	05/06/11	WG	Dissolved Oxygen	6.99	mg/L	CAPA-11-9325
R-38	821.2	07/26/11	WG	Dissolved Oxygen	7.03	mg/L	CAPA-11-22889

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-38	821.2	10/25/11	WG	Dissolved Oxygen	6.88	mg/L	CAPA-12-1181
R-38	821.2	10/11/10	WG	Oxidation Reduction Potential	310.6	mV	CAPA-10-27406
R-38	821.2	01/27/11	WG	Oxidation Reduction Potential	58.8	mV	CAPA-11-3020
R-38	821.2	05/06/11	WG	Oxidation Reduction Potential	45.7	mV	CAPA-11-9325
R-38	821.2	07/26/11	WG	Oxidation Reduction Potential	113.8	mV	CAPA-11-22889
R-38	821.2	10/25/11	WG	Oxidation Reduction Potential	88	mV	CAPA-12-1181
R-38	821.2	10/11/10	WG	pH	7.28	SU	CAPA-10-27406
R-38	821.2	01/27/11	WG	pH	7.35	SU	CAPA-11-3020
R-38	821.2	05/06/11	WG	pH	7.32	SU	CAPA-11-9325
R-38	821.2	07/26/11	WG	pH	7.42	SU	CAPA-11-22889
R-38	821.2	10/25/11	WG	pH	7.41	SU	CAPA-12-1181
R-38	821.2	10/11/10	WG	Specific Conductance	141	µS/cm	CAPA-10-27406
R-38	821.2	01/27/11	WG	Specific Conductance	132	µS/cm	CAPA-11-3020
R-38	821.2	05/06/11	WG	Specific Conductance	142	µS/cm	CAPA-11-9325
R-38	821.2	07/26/11	WG	Specific Conductance	135	µS/cm	CAPA-11-22889
R-38	821.2	10/25/11	WG	Specific Conductance	140	µS/cm	CAPA-12-1181
R-38	821.2	10/11/10	WG	Temperature	18.31	deg C	CAPA-10-27406
R-38	821.2	01/27/11	WG	Temperature	17.88	deg C	CAPA-11-3020
R-38	821.2	05/06/11	WG	Temperature	19.09	deg C	CAPA-11-9325
R-38	821.2	07/26/11	WG	Temperature	19.13	deg C	CAPA-11-22889
R-38	821.2	10/25/11	WG	Temperature	18.57	deg C	CAPA-12-1181
R-38	821.2	10/11/10	WG	Turbidity	1.42	NTU	CAPA-10-27406
R-38	821.2	01/27/11	WG	Turbidity	0.93	NTU	CAPA-11-3020
R-38	821.2	05/06/11	WG	Turbidity	0.6	NTU	CAPA-11-9325
R-38	821.2	07/26/11	WG	Turbidity	0.92	NTU	CAPA-11-22889
R-38	821.2	10/25/11	WG	Turbidity	0.97	NTU	CAPA-12-1181
R-39	859	10/08/10	WG	Dissolved Oxygen	5.22	mg/L	CAPA-10-27409
R-39	859	01/26/11	WG	Dissolved Oxygen	5.12	mg/L	CAPA-11-3026

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-39	859	04/21/11	WG	Dissolved Oxygen	6.33	mg/L	CAPA-11-9340
R-39	859	07/28/11	WG	Dissolved Oxygen	6.66	mg/L	CAPA-11-22896
R-39	859	10/27/11	WG	Dissolved Oxygen	6.66	mg/L	CAPA-12-1147
R-39	859	10/08/10	WG	Oxidation Reduction Potential	429.7	mV	CAPA-10-27409
R-39	859	01/26/11	WG	Oxidation Reduction Potential	72.6	mV	CAPA-11-3026
R-39	859	04/21/11	WG	Oxidation Reduction Potential	134.1	mV	CAPA-11-9340
R-39	859	07/28/11	WG	Oxidation Reduction Potential	154.7	mV	CAPA-11-22896
R-39	859	10/27/11	WG	Oxidation Reduction Potential	193.7	mV	CAPA-12-1147
R-39	859	10/08/10	WG	pH	7.83	SU	CAPA-10-27409
R-39	859	01/26/11	WG	pH	8.12	SU	CAPA-11-3026
R-39	859	04/21/11	WG	pH	8.07	SU	CAPA-11-9340
R-39	859	07/28/11	WG	pH	8.09	SU	CAPA-11-22896
R-39	859	10/27/11	WG	pH	8.07	SU	CAPA-12-1147
R-39	859	10/08/10	WG	Specific Conductance	143	µS/cm	CAPA-10-27409
R-39	859	01/26/11	WG	Specific Conductance	134	µS/cm	CAPA-11-3026
R-39	859	04/21/11	WG	Specific Conductance	140	µS/cm	CAPA-11-9340
R-39	859	07/28/11	WG	Specific Conductance	139	µS/cm	CAPA-11-22896
R-39	859	10/27/11	WG	Specific Conductance	141	µS/cm	CAPA-12-1147
R-39	859	10/08/10	WG	Temperature	20.05	deg C	CAPA-10-27409
R-39	859	01/26/11	WG	Temperature	21.91	deg C	CAPA-11-3026
R-39	859	04/21/11	WG	Temperature	22.69	deg C	CAPA-11-9340
R-39	859	07/28/11	WG	Temperature	22.81	deg C	CAPA-11-22896
R-39	859	10/27/11	WG	Temperature	22.14	deg C	CAPA-12-1147
R-39	859	10/08/10	WG	Turbidity	2.38	NTU	CAPA-10-27409
R-39	859	01/26/11	WG	Turbidity	3.6	NTU	CAPA-11-3026
R-39	859	04/21/11	WG	Turbidity	2.18	NTU	CAPA-11-9340
R-39	859	07/28/11	WG	Turbidity	2.37	NTU	CAPA-11-22896
R-39	859	10/27/11	WG	Turbidity	2.07	NTU	CAPA-12-1147



Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40	649.7	07/12/11	WG	Dissolved Oxygen	0.26	mg/L	CAPA-11-23041
R-40	649.7	07/12/11	WG	Dissolved Oxygen	0.22	mg/L	CAPA-11-23043
R-40	649.7	07/12/11	WG	Dissolved Oxygen	0.21	mg/L	CAPA-11-23045
R-40	649.7	07/12/11	WG	Dissolved Oxygen	0.18	mg/L	CAPA-11-23047
R-40	649.7	11/01/11	WG	Dissolved Oxygen	0.44	mg/L	CAPA-12-1294
R-40	649.7	11/01/11	WG	Dissolved Oxygen	1.1	mg/L	CAPA-12-1296
R-40	649.7	11/01/11	WG	Dissolved Oxygen	0.32	mg/L	CAPA-12-1298
R-40	649.7	11/01/11	WG	Dissolved Oxygen	0.25	mg/L	CAPA-12-1300
R-40	649.7	11/01/11	WG	Dissolved Oxygen	0.46	mg/L	CAPA-12-1302
R-40	649.7	11/01/11	WG	Dissolved Oxygen	0.18	mg/L	CAPA-12-1304
R-40	649.7	11/01/11	WG	Dissolved Oxygen	0.18	mg/L	CAPA-12-1124
R-40	649.7	07/12/11	WG	Oxidation Reduction Potential	-127.9	mV	CAPA-11-23041
R-40	649.7	07/12/11	WG	Oxidation Reduction Potential	-130.1	mV	CAPA-11-23043
R-40	649.7	07/12/11	WG	Oxidation Reduction Potential	-129.8	mV	CAPA-11-23045
R-40	649.7	07/12/11	WG	Oxidation Reduction Potential	-117	mV	CAPA-11-23047
R-40	649.7	11/01/11	WG	Oxidation Reduction Potential	-147.2	mV	CAPA-12-1294
R-40	649.7	11/01/11	WG	Oxidation Reduction Potential	-123	mV	CAPA-12-1296
R-40	649.7	11/01/11	WG	Oxidation Reduction Potential	-148	mV	CAPA-12-1298
R-40	649.7	11/01/11	WG	Oxidation Reduction Potential	-152.7	mV	CAPA-12-1300
R-40	649.7	11/01/11	WG	Oxidation Reduction Potential	-116.7	mV	CAPA-12-1302
R-40	649.7	11/01/11	WG	Oxidation Reduction Potential	-127	mV	CAPA-12-1304
R-40	649.7	11/01/11	WG	Oxidation Reduction Potential	-127	mV	CAPA-12-1124
R-40	649.7	07/12/11	WG	pH	7.45	SU	CAPA-11-23041
R-40	649.7	07/12/11	WG	pH	7.46	SU	CAPA-11-23043
R-40	649.7	07/12/11	WG	pH	7.47	SU	CAPA-11-23045
R-40	649.7	07/12/11	WG	pH	7.48	SU	CAPA-11-23047
R-40	649.7	11/01/11	WG	pH	7.49	SU	CAPA-12-1294
R-40	649.7	11/01/11	WG	pH	7.46	SU	CAPA-12-1296

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40	649.7	11/01/11	WG	pH	7.47	SU	CAPA-12-1298
R-40	649.7	11/01/11	WG	pH	7.48	SU	CAPA-12-1300
R-40	649.7	11/01/11	WG	pH	7.48	SU	CAPA-12-1302
R-40	649.7	11/01/11	WG	pH	7.5	SU	CAPA-12-1304
R-40	649.7	11/01/11	WG	pH	7.5	SU	CAPA-12-1124
R-40	649.7	07/12/11	WG	Specific Conductance	255	µS/cm	CAPA-11-23041
R-40	649.7	07/12/11	WG	Specific Conductance	251	µS/cm	CAPA-11-23043
R-40	649.7	07/12/11	WG	Specific Conductance	249	µS/cm	CAPA-11-23045
R-40	649.7	07/12/11	WG	Specific Conductance	242	µS/cm	CAPA-11-23047
R-40	649.7	11/01/11	WG	Specific Conductance	255	µS/cm	CAPA-12-1294
R-40	649.7	11/01/11	WG	Specific Conductance	250	µS/cm	CAPA-12-1296
R-40	649.7	11/01/11	WG	Specific Conductance	247	µS/cm	CAPA-12-1298
R-40	649.7	11/01/11	WG	Specific Conductance	241	µS/cm	CAPA-12-1300
R-40	649.7	11/01/11	WG	Specific Conductance	235	µS/cm	CAPA-12-1302
R-40	649.7	11/01/11	WG	Specific Conductance	234	µS/cm	CAPA-12-1304
R-40	649.7	11/01/11	WG	Specific Conductance	234	µS/cm	CAPA-12-1124
R-40	649.7	07/12/11	WG	Temperature	16.98	deg C	CAPA-11-23041
R-40	649.7	07/12/11	WG	Temperature	16.9	deg C	CAPA-11-23043
R-40	649.7	07/12/11	WG	Temperature	16.94	deg C	CAPA-11-23045
R-40	649.7	07/12/11	WG	Temperature	16.94	deg C	CAPA-11-23047
R-40	649.7	11/01/11	WG	Temperature	16.69	deg C	CAPA-12-1294
R-40	649.7	11/01/11	WG	Temperature	15.88	deg C	CAPA-12-1296
R-40	649.7	11/01/11	WG	Temperature	16.81	deg C	CAPA-12-1298
R-40	649.7	11/01/11	WG	Temperature	16.82	deg C	CAPA-12-1300
R-40	649.7	11/01/11	WG	Temperature	16.5	deg C	CAPA-12-1302
R-40	649.7	11/01/11	WG	Temperature	16.82	deg C	CAPA-12-1304
R-40	649.7	11/01/11	WG	Temperature	16.82	deg C	CAPA-12-1124
R-40	649.7	07/12/11	WG	Turbidity	0.29	NTU	CAPA-11-23041

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40	649.7	07/12/11	WG	Turbidity	0.64	NTU	CAPA-11-23043
R-40	649.7	07/12/11	WG	Turbidity	0.23	NTU	CAPA-11-23045
R-40	649.7	07/12/11	WG	Turbidity	0.96	NTU	CAPA-11-23047
R-40	649.7	11/01/11	WG	Turbidity	0.44	NTU	CAPA-12-1294
R-40	649.7	11/01/11	WG	Turbidity	0.52	NTU	CAPA-12-1296
R-40	649.7	11/01/11	WG	Turbidity	0.38	NTU	CAPA-12-1298
R-40	649.7	11/01/11	WG	Turbidity	0.94	NTU	CAPA-12-1300
R-40	649.7	11/01/11	WG	Turbidity	0.58	NTU	CAPA-12-1302
R-40	649.7	11/01/11	WG	Turbidity	0.46	NTU	CAPA-12-1304
R-40	649.7	11/01/11	WG	Turbidity	0.46	NTU	CAPA-12-1124
R-40	751.6	10/20/10	WG	Dissolved Oxygen	3.52	mg/L	CAPA-10-26922
R-40	751.6	01/21/11	WG	Dissolved Oxygen	3.12	mg/L	CAPA-11-2996
R-40	751.6	05/05/11	WG	Dissolved Oxygen	0.83	mg/L	CAPA-11-9304
R-40	751.6	07/11/11	WG	Dissolved Oxygen	5.68	mg/L	CAPA-11-22709
R-40	751.6	10/31/11	WG	Dissolved Oxygen	8.39	mg/L	CAPA-12-1307
R-40	751.6	10/31/11	WG	Dissolved Oxygen	4.85	mg/L	CAPA-12-1308
R-40	751.6	10/31/11	WG	Dissolved Oxygen	2.92	mg/L	CAPA-12-1309
R-40	751.6	11/01/11	WG	Dissolved Oxygen	5.35	mg/L	CAPA-12-1310
R-40	751.6	10/20/10	WG	Oxidation Reduction Potential	422.4	mV	CAPA-10-26922
R-40	751.6	01/21/11	WG	Oxidation Reduction Potential	149.7	mV	CAPA-11-2996
R-40	751.6	05/05/11	WG	Oxidation Reduction Potential	81.8	mV	CAPA-11-9304
R-40	751.6	07/11/11	WG	Oxidation Reduction Potential	265.3	mV	CAPA-11-22709
R-40	751.6	10/31/11	WG	Oxidation Reduction Potential	169.1	mV	CAPA-12-1307
R-40	751.6	10/31/11	WG	Oxidation Reduction Potential	138.3	mV	CAPA-12-1308
R-40	751.6	10/31/11	WG	Oxidation Reduction Potential	54	mV	CAPA-12-1309
R-40	751.6	11/01/11	WG	Oxidation Reduction Potential	213.8	mV	CAPA-12-1310
R-40	751.6	10/20/10	WG	pH	8.4	SU	CAPA-10-26922
R-40	751.6	01/21/11	WG	pH	8.47	SU	CAPA-11-2996

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40	751.6	05/05/11	WG	pH	8.62	SU	CAPA-11-9304
R-40	751.6	07/11/11	WG	pH	8.93	SU	CAPA-11-22709
R-40	751.6	10/31/11	WG	pH	8.27	SU	CAPA-12-1307
R-40	751.6	10/31/11	WG	pH	9.23	SU	CAPA-12-1308
R-40	751.6	10/31/11	WG	pH	9	SU	CAPA-12-1309
R-40	751.6	11/01/11	WG	pH	9.04	SU	CAPA-12-1310
R-40	751.6	10/20/10	WG	Specific Conductance	210	µS/cm	CAPA-10-26922
R-40	751.6	01/21/11	WG	Specific Conductance	216	µS/cm	CAPA-11-2996
R-40	751.6	05/05/11	WG	Specific Conductance	208	µS/cm	CAPA-11-9304
R-40	751.6	07/11/11	WG	Specific Conductance	195	µS/cm	CAPA-11-22709
R-40	751.6	10/31/11	WG	Specific Conductance	165	µS/cm	CAPA-12-1307
R-40	751.6	10/31/11	WG	Specific Conductance	150	µS/cm	CAPA-12-1308
R-40	751.6	10/31/11	WG	Specific Conductance	169	µS/cm	CAPA-12-1309
R-40	751.6	11/01/11	WG	Specific Conductance	178	µS/cm	CAPA-12-1310
R-40	751.6	10/20/10	WG	Temperature	15.85	deg C	CAPA-10-26922
R-40	751.6	01/21/11	WG	Temperature	11.6	deg C	CAPA-11-2996
R-40	751.6	05/05/11	WG	Temperature	17.06	deg C	CAPA-11-9304
R-40	751.6	07/11/11	WG	Temperature	15.97	deg C	CAPA-11-22709
R-40	751.6	10/31/11	WG	Temperature	14.6	deg C	CAPA-12-1307
R-40	751.6	10/31/11	WG	Temperature	16.08	deg C	CAPA-12-1308
R-40	751.6	10/31/11	WG	Temperature	15.64	deg C	CAPA-12-1309
R-40	751.6	11/01/11	WG	Temperature	15.6	deg C	CAPA-12-1310
R-40	751.6	10/20/10	WG	Turbidity	4.78	NTU	CAPA-10-26922
R-40	751.6	01/21/11	WG	Turbidity	0.93	NTU	CAPA-11-2996
R-40	751.6	05/05/11	WG	Turbidity	0.84	NTU	CAPA-11-9304
R-40	751.6	07/11/11	WG	Turbidity	1.47	NTU	CAPA-11-22709
R-40	751.6	10/31/11	WG	Turbidity	1.02	NTU	CAPA-12-1307
R-40	751.6	10/31/11	WG	Turbidity	0.84	NTU	CAPA-12-1308

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40	751.6	10/31/11	WG	Turbidity	1.1	NTU	CAPA-12-1309
R-40	751.6	11/01/11	WG	Turbidity	1.48	NTU	CAPA-12-1310
R-40	849.3	10/19/10	WG	Dissolved Oxygen	5.15	mg/L	CAPA-10-27413
R-40	849.3	01/19/11	WG	Dissolved Oxygen	5.82	mg/L	CAPA-11-3030
R-40	849.3	04/26/11	WG	Dissolved Oxygen	7.58	mg/L	CAPA-11-9344
R-40	849.3	07/08/11	WG	Dissolved Oxygen	7.32	mg/L	CAPA-11-22899
R-40	849.3	10/20/11	WG	Dissolved Oxygen	6.67	mg/L	CAPA-12-1150
R-40	849.3	10/19/10	WG	Oxidation Reduction Potential	122.5	mV	CAPA-10-27413
R-40	849.3	01/19/11	WG	Oxidation Reduction Potential	374	mV	CAPA-11-3030
R-40	849.3	04/26/11	WG	Oxidation Reduction Potential	49.2	mV	CAPA-11-9344
R-40	849.3	07/08/11	WG	Oxidation Reduction Potential	102.3	mV	CAPA-11-22899
R-40	849.3	10/20/11	WG	Oxidation Reduction Potential	81.7	mV	CAPA-12-1150
R-40	849.3	10/19/10	WG	pH	7.76	SU	CAPA-10-27413
R-40	849.3	01/19/11	WG	pH	7.74	SU	CAPA-11-3030
R-40	849.3	04/26/11	WG	pH	7.88	SU	CAPA-11-9344
R-40	849.3	07/08/11	WG	pH	8.19	SU	CAPA-11-22899
R-40	849.3	10/20/11	WG	pH	7.99	SU	CAPA-12-1150
R-40	849.3	10/19/10	WG	Specific Conductance	131	µS/cm	CAPA-10-27413
R-40	849.3	01/19/11	WG	Specific Conductance	123	µS/cm	CAPA-11-3030
R-40	849.3	04/26/11	WG	Specific Conductance	116	µS/cm	CAPA-11-9344
R-40	849.3	07/08/11	WG	Specific Conductance	119	µS/cm	CAPA-11-22899
R-40	849.3	10/20/11	WG	Specific Conductance	125	µS/cm	CAPA-12-1150
R-40	849.3	10/19/10	WG	Temperature	20.59	deg C	CAPA-10-27413
R-40	849.3	01/19/11	WG	Temperature	20.36	deg C	CAPA-11-3030
R-40	849.3	04/26/11	WG	Temperature	19.94	deg C	CAPA-11-9344
R-40	849.3	07/08/11	WG	Temperature	21.35	deg C	CAPA-11-22899
R-40	849.3	10/20/11	WG	Temperature	20.47	deg C	CAPA-12-1150
R-40	849.3	10/19/10	WG	Turbidity	1.75	NTU	CAPA-10-27413

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-40	849.3	01/19/11	WG	Turbidity	0.98	NTU	CAPA-11-3030
R-40	849.3	04/26/11	WG	Turbidity	0.71	NTU	CAPA-11-9344
R-40	849.3	07/08/11	WG	Turbidity	0.73	NTU	CAPA-11-22899
R-40	849.3	10/20/11	WG	Turbidity	3.15	NTU	CAPA-12-1150
R-41	965.3	10/08/10	WG	Dissolved Oxygen	4.13	mg/L	CAPA-10-27405
R-41	965.3	01/12/11	WG	Dissolved Oxygen	4.62	mg/L	CAPA-11-3032
R-41	965.3	04/21/11	WG	Dissolved Oxygen	5.59	mg/L	CAPA-11-9358
R-41	965.3	07/15/11	WG	Dissolved Oxygen	5.95	mg/L	CAPA-11-22904
R-41	965.3	10/25/11	WG	Dissolved Oxygen	5.61	mg/L	CAPA-12-1182
R-41	965.3	10/08/10	WG	Oxidation Reduction Potential	385.5	mV	CAPA-10-27405
R-41	965.3	01/12/11	WG	Oxidation Reduction Potential	63.6	mV	CAPA-11-3032
R-41	965.3	04/21/11	WG	Oxidation Reduction Potential	28	mV	CAPA-11-9358
R-41	965.3	07/15/11	WG	Oxidation Reduction Potential	104	mV	CAPA-11-22904
R-41	965.3	10/25/11	WG	Oxidation Reduction Potential	49.3	mV	CAPA-12-1182
R-41	965.3	10/08/10	WG	pH	7.87	SU	CAPA-10-27405
R-41	965.3	01/12/11	WG	pH	8.07	SU	CAPA-11-3032
R-41	965.3	04/21/11	WG	pH	8.03	SU	CAPA-11-9358
R-41	965.3	07/15/11	WG	pH	8.07	SU	CAPA-11-22904
R-41	965.3	10/25/11	WG	pH	8.1	SU	CAPA-12-1182
R-41	965.3	10/08/10	WG	Specific Conductance	173	μS/cm	CAPA-10-27405
R-41	965.3	01/12/11	WG	Specific Conductance	164	μS/cm	CAPA-11-3032
R-41	965.3	04/21/11	WG	Specific Conductance	165	μS/cm	CAPA-11-9358
R-41	965.3	07/15/11	WG	Specific Conductance	164	μS/cm	CAPA-11-22904
R-41	965.3	10/25/11	WG	Specific Conductance	165	μS/cm	CAPA-12-1182
R-41	965.3	10/08/10	WG	Temperature	20.86	deg C	CAPA-10-27405
R-41	965.3	01/12/11	WG	Temperature	22.9	deg C	CAPA-11-3032
R-41	965.3	04/21/11	WG	Temperature	22.91	deg C	CAPA-11-9358
R-41	965.3	07/15/11	WG	Temperature	23.41	deg C	CAPA-11-22904

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-41	965.3	10/25/11	WG	Temperature	21.41	deg C	CAPA-12-1182
R-41	965.3	10/08/10	WG	Turbidity	0.99	NTU	CAPA-10-27405
R-41	965.3	01/12/11	WG	Turbidity	0.77	NTU	CAPA-11-3032
R-41	965.3	04/21/11	WG	Turbidity	0.54	NTU	CAPA-11-9358
R-41	965.3	07/15/11	WG	Turbidity	0.39	NTU	CAPA-11-22904
R-41	965.3	10/25/11	WG	Turbidity	0.56	NTU	CAPA-12-1182
R-49	845	10/07/10	WG	Dissolved Oxygen	3.69	mg/L	CAPA-10-27418
R-49	845	01/19/11	WG	Dissolved Oxygen	3.68	mg/L	CAPA-11-3036
R-49	845	05/02/11	WG	Dissolved Oxygen	4.5	mg/L	CAPA-11-9366
R-49	845	07/08/11	WG	Dissolved Oxygen	4.63	mg/L	CAPA-11-22697
R-49	845	10/26/11	WG	Dissolved Oxygen	4.62	mg/L	CAPA-12-1153
R-49	845	10/07/10	WG	Oxidation Reduction Potential	252.8	mV	CAPA-10-27418
R-49	845	01/19/11	WG	Oxidation Reduction Potential	33.8	mV	CAPA-11-3036
R-49	845	05/02/11	WG	Oxidation Reduction Potential	18.9	mV	CAPA-11-9366
R-49	845	07/08/11	WG	Oxidation Reduction Potential	23.2	mV	CAPA-11-22697
R-49	845	10/26/11	WG	Oxidation Reduction Potential	23.7	mV	CAPA-12-1153
R-49	845	10/07/10	WG	pH	7.92	SU	CAPA-10-27418
R-49	845	01/19/11	WG	pH	7.98	SU	CAPA-11-3036
R-49	845	05/02/11	WG	pH	8.05	SU	CAPA-11-9366
R-49	845	07/08/11	WG	pH	8.04	SU	CAPA-11-22697
R-49	845	10/26/11	WG	pH	8.05	SU	CAPA-12-1153
R-49	845	10/07/10	WG	Specific Conductance	167	µS/cm	CAPA-10-27418
R-49	845	01/19/11	WG	Specific Conductance	169	µS/cm	CAPA-11-3036
R-49	845	05/02/11	WG	Specific Conductance	162	µS/cm	CAPA-11-9366
R-49	845	07/08/11	WG	Specific Conductance	160	µS/cm	CAPA-11-22697
R-49	845	10/26/11	WG	Specific Conductance	156	µS/cm	CAPA-12-1153
R-49	845	10/07/10	WG	Temperature	22.72	deg C	CAPA-10-27418
R-49	845	01/19/11	WG	Temperature	21.27	deg C	CAPA-11-3036

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49	845	05/02/11	WG	Temperature	21.76	deg C	CAPA-11-9366
R-49	845	07/08/11	WG	Temperature	23.17	deg C	CAPA-11-22697
R-49	845	10/26/11	WG	Temperature	20.93	deg C	CAPA-12-1153
R-49	845	10/07/10	WG	Turbidity	4.4	NTU	CAPA-10-27418
R-49	845	01/19/11	WG	Turbidity	2.84	NTU	CAPA-11-3036
R-49	845	05/02/11	WG	Turbidity	1.13	NTU	CAPA-11-9366
R-49	845	07/08/11	WG	Turbidity	1.69	NTU	CAPA-11-22697
R-49	845	10/26/11	WG	Turbidity	2.98	NTU	CAPA-12-1153
R-49	905.6	10/07/10	WG	Dissolved Oxygen	5.89	mg/L	CAPA-10-27423
R-49	905.6	01/26/11	WG	Dissolved Oxygen	5.11	mg/L	CAPA-11-3039
R-49	905.6	04/29/11	WG	Dissolved Oxygen	6.41	mg/L	CAPA-11-9378
R-49	905.6	07/25/11	WG	Dissolved Oxygen	6.48	mg/L	CAPA-11-22909
R-49	905.6	10/27/11	WG	Dissolved Oxygen	6.68	mg/L	CAPA-12-1156
R-49	905.6	10/07/10	WG	Oxidation Reduction Potential	503.7	mV	CAPA-10-27423
R-49	905.6	01/26/11	WG	Oxidation Reduction Potential	86.8	mV	CAPA-11-3039
R-49	905.6	04/29/11	WG	Oxidation Reduction Potential	29.9	mV	CAPA-11-9378
R-49	905.6	07/25/11	WG	Oxidation Reduction Potential	220.7	mV	CAPA-11-22909
R-49	905.6	10/27/11	WG	Oxidation Reduction Potential	151.1	mV	CAPA-12-1156
R-49	905.6	10/07/10	WG	pH	7.83	SU	CAPA-10-27423
R-49	905.6	01/26/11	WG	pH	7.9	SU	CAPA-11-3039
R-49	905.6	04/29/11	WG	pH	7.97	SU	CAPA-11-9378
R-49	905.6	07/25/11	WG	pH	7.97	SU	CAPA-11-22909
R-49	905.6	10/27/11	WG	pH	8.04	SU	CAPA-12-1156
R-49	905.6	10/07/10	WG	Specific Conductance	141	µS/cm	CAPA-10-27423
R-49	905.6	01/26/11	WG	Specific Conductance	162	µS/cm	CAPA-11-3039
R-49	905.6	04/29/11	WG	Specific Conductance	143	µS/cm	CAPA-11-9378
R-49	905.6	07/25/11	WG	Specific Conductance	146	µS/cm	CAPA-11-22909
R-49	905.6	10/27/11	WG	Specific Conductance	141	µS/cm	CAPA-12-1156



Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-49	905.6	10/07/10	WG	Temperature	21.51	deg C	CAPA-10-27423
R-49	905.6	01/26/11	WG	Temperature	21.12	deg C	CAPA-11-3039
R-49	905.6	04/29/11	WG	Temperature	23.21	deg C	CAPA-11-9378
R-49	905.6	07/25/11	WG	Temperature	22.72	deg C	CAPA-11-22909
R-49	905.6	10/27/11	WG	Temperature	21.65	deg C	CAPA-12-1156
R-49	905.6	10/07/10	WG	Turbidity	0.34	NTU	CAPA-10-27423
R-49	905.6	01/26/11	WG	Turbidity	1	NTU	CAPA-11-3039
R-49	905.6	04/29/11	WG	Turbidity	0.11	NTU	CAPA-11-9378
R-49	905.6	07/25/11	WG	Turbidity	0.16	NTU	CAPA-11-22909
R-49	905.6	10/27/11	WG	Turbidity	0.78	NTU	CAPA-12-1156
R-51	914.96	10/19/10	WG	Dissolved Oxygen	5.73	mg/L	CAPA-10-27437
R-51	914.96	01/11/11	WG	Dissolved Oxygen	6.86	mg/L	CAPA-11-3043
R-51	914.96	05/09/11	WG	Dissolved Oxygen	8	mg/L	CAPA-11-9405
R-51	914.96	07/28/11	WG	Dissolved Oxygen	7.44	mg/L	CAPA-11-22912
R-51	914.96	10/21/11	WG	Dissolved Oxygen	9.37	mg/L	CAPA-12-1159
R-51	914.96	10/19/10	WG	Oxidation Reduction Potential	318.4	mV	CAPA-10-27437
R-51	914.96	01/11/11	WG	Oxidation Reduction Potential	71.1	mV	CAPA-11-3043
R-51	914.96	05/09/11	WG	Oxidation Reduction Potential	106.7	mV	CAPA-11-9405
R-51	914.96	07/28/11	WG	Oxidation Reduction Potential	178.4	mV	CAPA-11-22912
R-51	914.96	10/21/11	WG	Oxidation Reduction Potential	83.5	mV	CAPA-12-1159
R-51	914.96	10/19/10	WG	pH	8.06	SU	CAPA-10-27437
R-51	914.96	01/11/11	WG	pH	8.56	SU	CAPA-11-3043
R-51	914.96	05/09/11	WG	pH	8.24	SU	CAPA-11-9405
R-51	914.96	07/28/11	WG	pH	8.16	SU	CAPA-11-22912
R-51	914.96	10/21/11	WG	pH	8.2	SU	CAPA-12-1159
R-51	914.96	10/19/10	WG	Specific Conductance	146	μS/cm	CAPA-10-27437
R-51	914.96	01/11/11	WG	Specific Conductance	131	μS/cm	CAPA-11-3043
R-51	914.96	05/09/11	WG	Specific Conductance	125	μS/cm	CAPA-11-9405

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51	914.96	07/28/11	WG	Specific Conductance	103	µS/cm	CAPA-11-22912
R-51	914.96	10/21/11	WG	Specific Conductance	123	µS/cm	CAPA-12-1159
R-51	914.96	10/19/10	WG	Temperature	21.06	deg C	CAPA-10-27437
R-51	914.96	01/11/11	WG	Temperature	20.1	deg C	CAPA-11-3043
R-51	914.96	05/09/11	WG	Temperature	20.91	deg C	CAPA-11-9405
R-51	914.96	07/28/11	WG	Temperature	21.1	deg C	CAPA-11-22912
R-51	914.96	10/21/11	WG	Temperature	20.69	deg C	CAPA-12-1159
R-51	914.96	10/19/10	WG	Turbidity	1.25	NTU	CAPA-10-27437
R-51	914.96	01/11/11	WG	Turbidity	1.4	NTU	CAPA-11-3043
R-51	914.96	05/09/11	WG	Turbidity	1.67	NTU	CAPA-11-9405
R-51	914.96	07/28/11	WG	Turbidity	2.4	NTU	CAPA-11-22912
R-51	914.96	10/21/11	WG	Turbidity	0.59	NTU	CAPA-12-1159
R-51	1030.96	07/28/11	WG	Dissolved Oxygen	6.52	mg/L	CAPA-11-14786
R-51	1030.96	07/28/11	WG	Dissolved Oxygen	6.28	mg/L	CAPA-11-14788
R-51	1030.96	07/28/11	WG	Dissolved Oxygen	6.49	mg/L	CAPA-11-14700
R-51	1030.96	07/28/11	WG	Dissolved Oxygen	6.01	mg/L	CAPA-11-22928
R-51	1030.96	10/21/11	WG	Dissolved Oxygen	5.81	mg/L	CAPA-12-1164
R-51	1030.96	07/28/11	WG	Oxidation Reduction Potential	91.8	mV	CAPA-11-14786
R-51	1030.96	07/28/11	WG	Oxidation Reduction Potential	113.8	mV	CAPA-11-14788
R-51	1030.96	07/28/11	WG	Oxidation Reduction Potential	130.9	mV	CAPA-11-14700
R-51	1030.96	07/28/11	WG	Oxidation Reduction Potential	140.8	mV	CAPA-11-22928
R-51	1030.96	10/21/11	WG	Oxidation Reduction Potential	39.5	mV	CAPA-12-1164
R-51	1030.96	07/28/11	WG	pH	8.19	SU	CAPA-11-14786
R-51	1030.96	07/28/11	WG	pH	8.19	SU	CAPA-11-14788
R-51	1030.96	07/28/11	WG	pH	8.17	SU	CAPA-11-14700
R-51	1030.96	07/28/11	WG	pH	8.07	SU	CAPA-11-22928
R-51	1030.96	10/21/11	WG	pH	8.27	SU	CAPA-12-1164
R-51	1030.96	07/28/11	WG	Specific Conductance	118	µS/cm	CAPA-11-14786

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-51	1030.96	07/28/11	WG	Specific Conductance	111	µS/cm	CAPA-11-14788
R-51	1030.96	07/28/11	WG	Specific Conductance	101	µS/cm	CAPA-11-14700
R-51	1030.96	07/28/11	WG	Specific Conductance	114	µS/cm	CAPA-11-22928
R-51	1030.96	10/21/11	WG	Specific Conductance	122	µS/cm	CAPA-12-1164
R-51	1030.96	07/28/11	WG	Temperature	21.6	deg C	CAPA-11-14786
R-51	1030.96	07/28/11	WG	Temperature	21.79	deg C	CAPA-11-14788
R-51	1030.96	07/28/11	WG	Temperature	21.93	deg C	CAPA-11-14700
R-51	1030.96	07/28/11	WG	Temperature	21.93	deg C	CAPA-11-22928
R-51	1030.96	10/21/11	WG	Temperature	21.63	deg C	CAPA-12-1164
R-51	1030.96	07/28/11	WG	Turbidity	2.59	NTU	CAPA-11-14786
R-51	1030.96	07/28/11	WG	Turbidity	1.05	NTU	CAPA-11-14788
R-51	1030.96	07/28/11	WG	Turbidity	0.82	NTU	CAPA-11-14700
R-51	1030.96	07/28/11	WG	Turbidity	0.74	NTU	CAPA-11-22928
R-51	1030.96	10/21/11	WG	Turbidity	1.36	NTU	CAPA-12-1164
R-52	1035.2	10/12/10	WG	Dissolved Oxygen	5.12	mg/L	CAPA-10-27451
R-52	1035.2	01/13/11	WG	Dissolved Oxygen	5.93	mg/L	CAPA-11-3082
R-52	1035.2	05/04/11	WG	Dissolved Oxygen	6.55	mg/L	CAPA-11-9464
R-52	1035.2	07/18/11	WG	Dissolved Oxygen	8.68	mg/L	CAPA-11-22933
R-52	1035.2	11/01/11	WG	Dissolved Oxygen	7.51	mg/L	CAPA-12-1187
R-52	1035.2	08/05/10	WG	Oxidation Reduction Potential	376.6	mV	CAPA-10-24167
R-52	1035.2	01/13/11	WG	Oxidation Reduction Potential	78.1	mV	CAPA-11-3082
R-52	1035.2	05/04/11	WG	Oxidation Reduction Potential	154.4	mV	CAPA-11-9464
R-52	1035.2	07/18/11	WG	Oxidation Reduction Potential	141.4	mV	CAPA-11-22933
R-52	1035.2	11/01/11	WG	Oxidation Reduction Potential	132.6	mV	CAPA-12-1187
R-52	1035.2	10/12/10	WG	pH	7.9	SU	CAPA-10-27451
R-52	1035.2	01/13/11	WG	pH	8.29	SU	CAPA-11-3082
R-52	1035.2	05/04/11	WG	pH	8.48	SU	CAPA-11-9464
R-52	1035.2	07/18/11	WG	pH	8.13	SU	CAPA-11-22933

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52	1035.2	11/01/11	WG	pH	8.35	SU	CAPA-12-1187
R-52	1035.2	10/12/10	WG	Specific Conductance	164	µS/cm	CAPA-10-27451
R-52	1035.2	01/13/11	WG	Specific Conductance	145	µS/cm	CAPA-11-3082
R-52	1035.2	05/04/11	WG	Specific Conductance	128	µS/cm	CAPA-11-9464
R-52	1035.2	07/18/11	WG	Specific Conductance	140	µS/cm	CAPA-11-22933
R-52	1035.2	11/01/11	WG	Specific Conductance	139	µS/cm	CAPA-12-1187
R-52	1035.2	10/12/10	WG	Temperature	22.04	deg C	CAPA-10-27451
R-52	1035.2	01/13/11	WG	Temperature	21.58	deg C	CAPA-11-3082
R-52	1035.2	05/04/11	WG	Temperature	22.13	deg C	CAPA-11-9464
R-52	1035.2	07/18/11	WG	Temperature	22.06	deg C	CAPA-11-22933
R-52	1035.2	11/01/11	WG	Temperature	21.66	deg C	CAPA-12-1187
R-52	1035.2	10/12/10	WG	Turbidity	0.85	NTU	CAPA-10-27451
R-52	1035.2	01/13/11	WG	Turbidity	1.29	NTU	CAPA-11-3082
R-52	1035.2	05/04/11	WG	Turbidity	0.86	NTU	CAPA-11-9464
R-52	1035.2	07/18/11	WG	Turbidity	0.68	NTU	CAPA-11-22933
R-52	1035.2	11/01/11	WG	Turbidity	0.46	NTU	CAPA-12-1187
R-52	1107	07/18/11	WG	Dissolved Oxygen	6.65	mg/L	CAPA-11-14712
R-52	1107	07/18/11	WG	Dissolved Oxygen	7.8	mg/L	CAPA-11-14714
R-52	1107	07/18/11	WG	Dissolved Oxygen	7.86	mg/L	CAPA-11-14716
R-52	1107	07/18/11	WG	Dissolved Oxygen	7.66	mg/L	CAPA-11-14784
R-52	1107	07/18/11	WG	Dissolved Oxygen	7.66	mg/L	CAPA-11-22936
R-52	1107	11/01/11	WG	Dissolved Oxygen	7.44	mg/L	CAPA-12-1313
R-52	1107	11/01/11	WG	Dissolved Oxygen	7.31	mg/L	CAPA-12-1315
R-52	1107	11/01/11	WG	Dissolved Oxygen	7.04	mg/L	CAPA-12-1189
R-52	1107	07/18/11	WG	Oxidation Reduction Potential	1.3	mV	CAPA-11-14712
R-52	1107	07/18/11	WG	Oxidation Reduction Potential	61.6	mV	CAPA-11-14714
R-52	1107	07/18/11	WG	Oxidation Reduction Potential	86.5	mV	CAPA-11-14716
R-52	1107	07/18/11	WG	Oxidation Reduction Potential	97.7	mV	CAPA-11-14784

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52	1107	07/18/11	WG	Oxidation Reduction Potential	97.7	mV	CAPA-11-22936
R-52	1107	11/01/11	WG	Oxidation Reduction Potential	-15.1	mV	CAPA-12-1313
R-52	1107	11/01/11	WG	Oxidation Reduction Potential	30.6	mV	CAPA-12-1315
R-52	1107	11/01/11	WG	Oxidation Reduction Potential	78.2	mV	CAPA-12-1189
R-52	1107	07/18/11	WG	pH	7.83	SU	CAPA-11-14712
R-52	1107	07/18/11	WG	pH	7.86	SU	CAPA-11-14714
R-52	1107	07/18/11	WG	pH	7.87	SU	CAPA-11-14716
R-52	1107	07/18/11	WG	pH	7.88	SU	CAPA-11-14784
R-52	1107	07/18/11	WG	pH	7.88	SU	CAPA-11-22936
R-52	1107	11/01/11	WG	pH	7.85	SU	CAPA-12-1313
R-52	1107	11/01/11	WG	pH	7.7	SU	CAPA-12-1315
R-52	1107	11/01/11	WG	pH	7.7	SU	CAPA-12-1189
R-52	1107	07/18/11	WG	Specific Conductance	118	μS/cm	CAPA-11-14712
R-52	1107	07/18/11	WG	Specific Conductance	113	μS/cm	CAPA-11-14714
R-52	1107	07/18/11	WG	Specific Conductance	119	μS/cm	CAPA-11-14716
R-52	1107	07/18/11	WG	Specific Conductance	113	μS/cm	CAPA-11-14784
R-52	1107	07/18/11	WG	Specific Conductance	113	μS/cm	CAPA-11-22936
R-52	1107	11/01/11	WG	Specific Conductance	125	μS/cm	CAPA-12-1313
R-52	1107	11/01/11	WG	Specific Conductance	120	μS/cm	CAPA-12-1315
R-52	1107	11/01/11	WG	Specific Conductance	114	μS/cm	CAPA-12-1189
R-52	1107	07/18/11	WG	Temperature	20.89	deg C	CAPA-11-14712
R-52	1107	07/18/11	WG	Temperature	21.63	deg C	CAPA-11-14714
R-52	1107	07/18/11	WG	Temperature	21.88	deg C	CAPA-11-14716
R-52	1107	07/18/11	WG	Temperature	21.98	deg C	CAPA-11-22936
R-52	1107	07/18/11	WG	Temperature	21.98	deg C	CAPA-11-14784
R-52	1107	11/01/11	WG	Temperature	20.36	deg C	CAPA-12-1313
R-52	1107	11/01/11	WG	Temperature	21.04	deg C	CAPA-12-1315
R-52	1107	11/01/11	WG	Temperature	21.31	deg C	CAPA-12-1189

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-52	1107	07/18/11	WG	Turbidity	0.38	NTU	CAPA-11-14712
R-52	1107	07/18/11	WG	Turbidity	0.38	NTU	CAPA-11-14714
R-52	1107	07/18/11	WG	Turbidity	0.4	NTU	CAPA-11-14716
R-52	1107	07/18/11	WG	Turbidity	0.23	NTU	CAPA-11-14784
R-52	1107	07/18/11	WG	Turbidity	0.23	NTU	CAPA-11-22936
R-52	1107	11/01/11	WG	Turbidity	1.74	NTU	CAPA-12-1313
R-52	1107	11/01/11	WG	Turbidity	1.06	NTU	CAPA-12-1315
R-52	1107	11/01/11	WG	Turbidity	0.96	NTU	CAPA-12-1189
R-53	849.2	10/12/10	WG	Dissolved Oxygen	4.39	mg/L	CAPA-10-27456
R-53	849.2	01/14/11	WG	Dissolved Oxygen	6.26	mg/L	CAPA-11-3089
R-53	849.2	05/06/11	WG	Dissolved Oxygen	5.68	mg/L	CAPA-11-9484
R-53	849.2	07/14/11	WG	Dissolved Oxygen	5.84	mg/L	CAPA-11-22939
R-53	849.2	10/25/11	WG	Dissolved Oxygen	6.15	mg/L	CAPA-12-1192
R-53	849.2	10/12/10	WG	Oxidation Reduction Potential	149.1	mV	CAPA-10-27456
R-53	849.2	01/14/11	WG	Oxidation Reduction Potential	213.5	mV	CAPA-11-3089
R-53	849.2	05/06/11	WG	Oxidation Reduction Potential	144.5	mV	CAPA-11-9484
R-53	849.2	07/14/11	WG	Oxidation Reduction Potential	118.1	mV	CAPA-11-22939
R-53	849.2	10/25/11	WG	Oxidation Reduction Potential	107.9	mV	CAPA-12-1192
R-53	849.2	10/12/10	WG	pH	7.77	SU	CAPA-10-27456
R-53	849.2	01/14/11	WG	pH	7.75	SU	CAPA-11-3089
R-53	849.2	05/06/11	WG	pH	7.93	SU	CAPA-11-9484
R-53	849.2	07/14/11	WG	pH	8.02	SU	CAPA-11-22939
R-53	849.2	10/25/11	WG	pH	7.98	SU	CAPA-12-1192
R-53	849.2	10/12/10	WG	Specific Conductance	130	µS/cm	CAPA-10-27456
R-53	849.2	01/14/11	WG	Specific Conductance	125	µS/cm	CAPA-11-3089
R-53	849.2	05/06/11	WG	Specific Conductance	129	µS/cm	CAPA-11-9484
R-53	849.2	07/14/11	WG	Specific Conductance	127	µS/cm	CAPA-11-22939
R-53	849.2	10/25/11	WG	Specific Conductance	123	µS/cm	CAPA-12-1192

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53	849.2	10/12/10	WG	Temperature	21.37	deg C	CAPA-10-27456
R-53	849.2	01/14/11	WG	Temperature	20.81	deg C	CAPA-11-3089
R-53	849.2	05/06/11	WG	Temperature	22.11	deg C	CAPA-11-9484
R-53	849.2	07/14/11	WG	Temperature	22.39	deg C	CAPA-11-22939
R-53	849.2	10/25/11	WG	Temperature	21.37	deg C	CAPA-12-1192
R-53	849.2	10/12/10	WG	Turbidity	1.28	NTU	CAPA-10-27456
R-53	849.2	01/14/11	WG	Turbidity	1.19	NTU	CAPA-11-3089
R-53	849.2	05/06/11	WG	Turbidity	0.66	NTU	CAPA-11-9484
R-53	849.2	07/14/11	WG	Turbidity	0.4	NTU	CAPA-11-22939
R-53	849.2	10/25/11	WG	Turbidity	0.54	NTU	CAPA-12-1192
R-53	959.7	10/12/10	WG	Dissolved Oxygen	5.51	mg/L	CAPA-10-27464
R-53	959.7	01/13/11	WG	Dissolved Oxygen	6.7	mg/L	CAPA-11-3092
R-53	959.7	05/06/11	WG	Dissolved Oxygen	6.07	mg/L	CAPA-11-9491
R-53	959.7	07/14/11	WG	Dissolved Oxygen	6.4	mg/L	CAPA-11-22941
R-53	959.7	10/25/11	WG	Dissolved Oxygen	6.3	mg/L	CAPA-12-1196
R-53	959.7	10/12/10	WG	Oxidation Reduction Potential	145.4	mV	CAPA-10-27464
R-53	959.7	01/13/11	WG	Oxidation Reduction Potential	195.2	mV	CAPA-11-3092
R-53	959.7	05/06/11	WG	Oxidation Reduction Potential	110.6	mV	CAPA-11-9491
R-53	959.7	07/14/11	WG	Oxidation Reduction Potential	121.6	mV	CAPA-11-22941
R-53	959.7	10/25/11	WG	Oxidation Reduction Potential	95	mV	CAPA-12-1196
R-53	959.7	05/06/11	WG	pH	8.07	SU	CAPA-11-9491
R-53	959.7	07/14/11	WG	pH	8.1	SU	CAPA-11-22941
R-53	959.7	10/25/11	WG	pH	8.13	SU	CAPA-12-1196
R-53	959.7	05/06/11	WG	Specific Conductance	126	µS/cm	CAPA-11-9491
R-53	959.7	07/14/11	WG	Specific Conductance	126	µS/cm	CAPA-11-22941
R-53	959.7	10/25/11	WG	Specific Conductance	120	µS/cm	CAPA-12-1196
R-53	959.7	10/12/10	WG	Temperature	21.14	deg C	CAPA-10-27464
R-53	959.7	01/13/11	WG	Temperature	19.54	deg C	CAPA-11-3092

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-53	959.7	05/06/11	WG	Temperature	22.27	deg C	CAPA-11-9491
R-53	959.7	07/14/11	WG	Temperature	22.04	deg C	CAPA-11-22941
R-53	959.7	10/25/11	WG	Temperature	21.56	deg C	CAPA-12-1196
R-53	959.7	10/12/10	WG	Turbidity	0.45	NTU	CAPA-10-27464
R-53	959.7	01/13/11	WG	Turbidity	1.05	NTU	CAPA-11-3092
R-53	959.7	05/06/11	WG	Turbidity	0.32	NTU	CAPA-11-9491
R-53	959.7	07/14/11	WG	Turbidity	0.08	NTU	CAPA-11-22941
R-53	959.7	10/25/11	WG	Turbidity	0.36	NTU	CAPA-12-1196
R-54	830	07/12/11	WG	Dissolved Oxygen	0.67	mg/L	CAPA-11-14718
R-54	830	07/12/11	WG	Dissolved Oxygen	0.77	mg/L	CAPA-11-14720
R-54	830	07/12/11	WG	Dissolved Oxygen	1.13	mg/L	CAPA-11-14723
R-54	830	07/12/11	WG	Dissolved Oxygen	1.5	mg/L	CAPA-11-22972
R-54	830	11/02/11	WG	Dissolved Oxygen	1.36	mg/L	CAPA-12-1319
R-54	830	11/02/11	WG	Dissolved Oxygen	0.88	mg/L	CAPA-12-1321
R-54	830	11/02/11	WG	Dissolved Oxygen	1.21	mg/L	CAPA-12-1323
R-54	830	11/02/11	WG	Dissolved Oxygen	2.13	mg/L	CAPA-12-1325
R-54	830	11/02/11	WG	Dissolved Oxygen	2.76	mg/L	CAPA-12-1327
R-54	830	11/02/11	WG	Dissolved Oxygen	3.03	mg/L	CAPA-12-1329
R-54	830	11/02/11	WG	Dissolved Oxygen	3.03	mg/L	CAPA-12-1168
R-54	830	11/02/11	WG	Dissolved Oxygen	3.51	mg/L	CAPA-12-1331
R-54	830	11/02/11	WG	Dissolved Oxygen	3.36	mg/L	CAPA-12-1333
R-54	830	11/02/11	WG	Dissolved Oxygen	4	mg/L	CAPA-12-1335
R-54	830	07/12/11	WG	Oxidation Reduction Potential	-31.7	mV	CAPA-11-14718
R-54	830	07/12/11	WG	Oxidation Reduction Potential	-49.2	mV	CAPA-11-14720
R-54	830	07/12/11	WG	Oxidation Reduction Potential	-53.7	mV	CAPA-11-14723
R-54	830	07/12/11	WG	Oxidation Reduction Potential	-59.3	mV	CAPA-11-22972
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-6.5	mV	CAPA-12-1319
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-26.1	mV	CAPA-12-1321



Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-31.2	mV	CAPA-12-1323
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-51.5	mV	CAPA-12-1325
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-54.5	mV	CAPA-12-1327
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-50.5	mV	CAPA-12-1329
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-50.5	mV	CAPA-12-1168
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-52.3	mV	CAPA-12-1331
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-45	mV	CAPA-12-1333
R-54	830	11/02/11	WG	Oxidation Reduction Potential	-36.2	mV	CAPA-12-1335
R-54	830	07/12/11	WG	pH	6.98	SU	CAPA-11-14718
R-54	830	07/12/11	WG	pH	6.89	SU	CAPA-11-14720
R-54	830	07/12/11	WG	pH	6.92	SU	CAPA-11-14723
R-54	830	07/12/11	WG	pH	7.01	SU	CAPA-11-22972
R-54	830	11/02/11	WG	pH	6.79	SU	CAPA-12-1319
R-54	830	11/02/11	WG	pH	6.75	SU	CAPA-12-1321
R-54	830	11/02/11	WG	pH	6.79	SU	CAPA-12-1323
R-54	830	11/02/11	WG	pH	7.02	SU	CAPA-12-1325
R-54	830	11/02/11	WG	pH	7.1	SU	CAPA-12-1327
R-54	830	11/02/11	WG	pH	7.16	SU	CAPA-12-1168
R-54	830	11/02/11	WG	pH	7.16	SU	CAPA-12-1329
R-54	830	11/02/11	WG	pH	7.19	SU	CAPA-12-1331
R-54	830	11/02/11	WG	pH	7.22	SU	CAPA-12-1333
R-54	830	11/02/11	WG	pH	7.19	SU	CAPA-12-1335
R-54	830	07/12/11	WG	Specific Conductance	170	µS/cm	CAPA-11-14718
R-54	830	07/12/11	WG	Specific Conductance	197	µS/cm	CAPA-11-14720
R-54	830	07/12/11	WG	Specific Conductance	184	µS/cm	CAPA-11-14723
R-54	830	07/12/11	WG	Specific Conductance	176	µS/cm	CAPA-11-22972
R-54	830	11/02/11	WG	Specific Conductance	163	µS/cm	CAPA-12-1319
R-54	830	11/02/11	WG	Specific Conductance	195	µS/cm	CAPA-12-1321

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54	830	11/02/11	WG	Specific Conductance	187	µS/cm	CAPA-12-1323
R-54	830	11/02/11	WG	Specific Conductance	151	µS/cm	CAPA-12-1325
R-54	830	11/02/11	WG	Specific Conductance	135	µS/cm	CAPA-12-1327
R-54	830	11/02/11	WG	Specific Conductance	130	µS/cm	CAPA-12-1168
R-54	830	11/02/11	WG	Specific Conductance	130	µS/cm	CAPA-12-1329
R-54	830	11/02/11	WG	Specific Conductance	122	µS/cm	CAPA-12-1331
R-54	830	11/02/11	WG	Specific Conductance	114	µS/cm	CAPA-12-1333
R-54	830	11/02/11	WG	Specific Conductance	115	µS/cm	CAPA-12-1335
R-54	830	07/12/11	WG	Temperature	21.05	deg C	CAPA-11-14718
R-54	830	07/12/11	WG	Temperature	22.22	deg C	CAPA-11-14720
R-54	830	07/12/11	WG	Temperature	22.4	deg C	CAPA-11-14723
R-54	830	07/12/11	WG	Temperature	22.26	deg C	CAPA-11-22972
R-54	830	11/02/11	WG	Temperature	17.98	deg C	CAPA-12-1319
R-54	830	11/02/11	WG	Temperature	19.13	deg C	CAPA-12-1321
R-54	830	11/02/11	WG	Temperature	19.48	deg C	CAPA-12-1323
R-54	830	11/02/11	WG	Temperature	19.89	deg C	CAPA-12-1325
R-54	830	11/02/11	WG	Temperature	19.52	deg C	CAPA-12-1327
R-54	830	11/02/11	WG	Temperature	19.31	deg C	CAPA-12-1168
R-54	830	11/02/11	WG	Temperature	19.31	deg C	CAPA-12-1329
R-54	830	11/02/11	WG	Temperature	20.7	deg C	CAPA-12-1331
R-54	830	11/02/11	WG	Temperature	20.83	deg C	CAPA-12-1333
R-54	830	11/02/11	WG	Temperature	21.02	deg C	CAPA-12-1335
R-54	830	07/12/11	WG	Turbidity	3.17	NTU	CAPA-11-14718
R-54	830	07/12/11	WG	Turbidity	1.11	NTU	CAPA-11-14720
R-54	830	07/12/11	WG	Turbidity	0.92	NTU	CAPA-11-14723
R-54	830	07/12/11	WG	Turbidity	0.38	NTU	CAPA-11-22972
R-54	830	11/02/11	WG	Turbidity	0.68	NTU	CAPA-12-1319
R-54	830	11/02/11	WG	Turbidity	1.25	NTU	CAPA-12-1321

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54	830	11/02/11	WG	Turbidity	0.82	NTU	CAPA-12-1323
R-54	830	11/02/11	WG	Turbidity	0.61	NTU	CAPA-12-1325
R-54	830	11/02/11	WG	Turbidity	0.47	NTU	CAPA-12-1327
R-54	830	11/02/11	WG	Turbidity	0.84	NTU	CAPA-12-1329
R-54	830	11/02/11	WG	Turbidity	0.84	NTU	CAPA-12-1168
R-54	830	11/02/11	WG	Turbidity	0.47	NTU	CAPA-12-1331
R-54	830	11/02/11	WG	Turbidity	0.4	NTU	CAPA-12-1333
R-54	830	11/02/11	WG	Turbidity	0.72	NTU	CAPA-12-1335
R-54	915	10/13/10	WG	Dissolved Oxygen	4.86	mg/L	CAPA-10-27446
R-54	915	01/12/11	WG	Dissolved Oxygen	5.67	mg/L	CAPA-11-3050
R-54	915	05/05/11	WG	Dissolved Oxygen	6.45	mg/L	CAPA-11-9500
R-54	915	07/12/11	WG	Dissolved Oxygen	6.8	mg/L	CAPA-11-22976
R-54	915	10/31/11	WG	Dissolved Oxygen	6.46	mg/L	CAPA-12-1172
R-54	915	10/13/10	WG	Oxidation Reduction Potential	111.6	mV	CAPA-10-27446
R-54	915	01/12/11	WG	Oxidation Reduction Potential	107.9	mV	CAPA-11-3050
R-54	915	05/05/11	WG	Oxidation Reduction Potential	180.8	mV	CAPA-11-9500
R-54	915	07/12/11	WG	Oxidation Reduction Potential	56.4	mV	CAPA-11-22976
R-54	915	10/31/11	WG	Oxidation Reduction Potential	100.6	mV	CAPA-12-1172
R-54	915	10/13/10	WG	pH	8.14	SU	CAPA-10-27446
R-54	915	01/12/11	WG	pH	8.17	SU	CAPA-11-3050
R-54	915	05/05/11	WG	pH	8.19	SU	CAPA-11-9500
R-54	915	07/12/11	WG	pH	8.27	SU	CAPA-11-22976
R-54	915	10/31/11	WG	pH	8.28	SU	CAPA-12-1172
R-54	915	10/13/10	WG	Specific Conductance	123	μS/cm	CAPA-10-27446
R-54	915	01/12/11	WG	Specific Conductance	124	μS/cm	CAPA-11-3050
R-54	915	05/05/11	WG	Specific Conductance	130	μS/cm	CAPA-11-9500
R-54	915	07/12/11	WG	Specific Conductance	125	μS/cm	CAPA-11-22976
R-54	915	10/31/11	WG	Specific Conductance	129	μS/cm	CAPA-12-1172

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-54	915	10/13/10	WG	Temperature	19.84	deg C	CAPA-10-27446
R-54	915	01/12/11	WG	Temperature	21.23	deg C	CAPA-11-3050
R-54	915	05/05/11	WG	Temperature	21.87	deg C	CAPA-11-9500
R-54	915	07/12/11	WG	Temperature	22.41	deg C	CAPA-11-22976
R-54	915	10/31/11	WG	Temperature	21.43	deg C	CAPA-12-1172
R-54	915	10/13/10	WG	Turbidity	0.78	NTU	CAPA-10-27446
R-54	915	01/12/11	WG	Turbidity	0.58	NTU	CAPA-11-3050
R-54	915	05/05/11	WG	Turbidity	0.51	NTU	CAPA-11-9500
R-54	915	07/12/11	WG	Turbidity	0.46	NTU	CAPA-11-22976
R-54	915	10/31/11	WG	Turbidity	0.83	NTU	CAPA-12-1172
R-55	860	07/15/11	WG	Dissolved Oxygen	6.22	mg/L	CAPA-11-14731
R-55	860	07/15/11	WG	Dissolved Oxygen	6.4	mg/L	CAPA-11-14733
R-55	860	07/15/11	WG	Dissolved Oxygen	6.56	mg/L	CAPA-11-23022
R-55	860	07/15/11	WG	Dissolved Oxygen	6.3	mg/L	CAPA-11-14735
R-55	860	10/28/11	WG	Dissolved Oxygen	6.39	mg/L	CAPA-12-1201
R-55	860	07/15/11	WG	pH	8.17	SU	CAPA-11-14731
R-55	860	07/15/11	WG	pH	8.08	SU	CAPA-11-14733
R-55	860	07/15/11	WG	pH	8.08	SU	CAPA-11-23022
R-55	860	07/15/11	WG	pH	8.08	SU	CAPA-11-14735
R-55	860	10/28/11	WG	pH	8.15	SU	CAPA-12-1201
R-55	860	07/15/11	WG	Specific Conductance	174	µS/cm	CAPA-11-14731
R-55	860	07/15/11	WG	Specific Conductance	167	µS/cm	CAPA-11-14733
R-55	860	07/15/11	WG	Specific Conductance	168	µS/cm	CAPA-11-23022
R-55	860	07/15/11	WG	Specific Conductance	168	µS/cm	CAPA-11-14735
R-55	860	10/28/11	WG	Specific Conductance	176	µS/cm	CAPA-12-1201
R-55	860	07/15/11	WG	Temperature	22.24	deg C	CAPA-11-14731
R-55	860	07/15/11	WG	Temperature	22.43	deg C	CAPA-11-14733
R-55	860	07/15/11	WG	Temperature	22.63	deg C	CAPA-11-23022

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55	860	07/15/11	WG	Temperature	22.52	deg C	CAPA-11-14735
R-55	860	10/28/11	WG	Temperature	22.12	deg C	CAPA-12-1201
R-55	860	07/15/11	WG	Turbidity	0.47	NTU	CAPA-11-14731
R-55	860	07/15/11	WG	Turbidity	0.41	NTU	CAPA-11-14733
R-55	860	07/15/11	WG	Turbidity	0.21	NTU	CAPA-11-23022
R-55	860	07/15/11	WG	Turbidity	0.26	NTU	CAPA-11-14735
R-55	860	10/28/11	WG	Turbidity	0.36	NTU	CAPA-12-1201
R-55	994.4	04/28/11	WG	Dissolved Oxygen	4.94	mg/L	CAPA-11-9508
R-55	994.4	07/14/11	WG	Dissolved Oxygen	5.9	mg/L	CAPA-11-14737
R-55	994.4	07/14/11	WG	Dissolved Oxygen	6.32	mg/L	CAPA-11-14739
R-55	994.4	07/14/11	WG	Dissolved Oxygen	6.45	mg/L	CAPA-11-23024
R-55	994.4	10/31/11	WG	Dissolved Oxygen	4.84	mg/L	CAPA-12-1204
R-55	994.4	04/28/11	WG	Oxidation Reduction Potential	72.5	mV	CAPA-11-9508
R-55	994.4	07/14/11	WG	Oxidation Reduction Potential	50.2	mV	CAPA-11-14737
R-55	994.4	07/14/11	WG	Oxidation Reduction Potential	69.9	mV	CAPA-11-14739
R-55	994.4	07/14/11	WG	Oxidation Reduction Potential	96.8	mV	CAPA-11-23024
R-55	994.4	10/31/11	WG	Oxidation Reduction Potential	93.8	mV	CAPA-12-1204
R-55	994.4	04/28/11	WG	pH	8.48	SU	CAPA-11-9508
R-55	994.4	07/14/11	WG	pH	8.3	SU	CAPA-11-14737
R-55	994.4	07/14/11	WG	pH	8.17	SU	CAPA-11-14739
R-55	994.4	07/14/11	WG	pH	8.13	SU	CAPA-11-23024
R-55	994.4	10/31/11	WG	pH	8.53	SU	CAPA-12-1204
R-55	994.4	04/28/11	WG	Specific Conductance	172	µS/cm	CAPA-11-9508
R-55	994.4	07/14/11	WG	Specific Conductance	182	µS/cm	CAPA-11-14737
R-55	994.4	07/14/11	WG	Specific Conductance	181	µS/cm	CAPA-11-14739
R-55	994.4	07/14/11	WG	Specific Conductance	181	µS/cm	CAPA-11-23024
R-55	994.4	10/31/11	WG	Specific Conductance	174	µS/cm	CAPA-12-1204
R-55	994.4	04/28/11	WG	Temperature	22.81	deg C	CAPA-11-9508

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55	994.4	07/14/11	WG	Temperature	22.23	deg C	CAPA-11-14737
R-55	994.4	07/14/11	WG	Temperature	22.54	deg C	CAPA-11-14739
R-55	994.4	07/14/11	WG	Temperature	22.6	deg C	CAPA-11-23024
R-55	994.4	10/31/11	WG	Temperature	21.98	deg C	CAPA-12-1204
R-55	994.4	04/28/11	WG	Turbidity	0.29	NTU	CAPA-11-9508
R-55	994.4	07/14/11	WG	Turbidity	0.43	NTU	CAPA-11-14737
R-55	994.4	07/14/11	WG	Turbidity	0.33	NTU	CAPA-11-14739
R-55	994.4	07/14/11	WG	Turbidity	0.33	NTU	CAPA-11-23024
R-55	994.4	10/31/11	WG	Turbidity	0.45	NTU	CAPA-12-1204
R-55i	510	05/10/11	WG	Dissolved Oxygen	4.46	mg/L	CAPA-11-10606
R-55i	510	07/18/11	WG	Dissolved Oxygen	0.68	mg/L	CAPA-11-14767
R-55i	510	07/18/11	WG	Dissolved Oxygen	2.98	mg/L	CAPA-11-14769
R-55i	510	07/18/11	WG	Dissolved Oxygen	3.75	mg/L	CAPA-11-22978
R-55i	510	07/18/11	WG	Dissolved Oxygen	3.75	mg/L	CAPA-11-14771
R-55i	510	11/01/11	WG	Dissolved Oxygen	0.66	mg/L	CAPA-12-1284
R-55i	510	11/01/11	WG	Dissolved Oxygen	2.58	mg/L	CAPA-12-1286
R-55i	510	11/01/11	WG	Dissolved Oxygen	3.18	mg/L	CAPA-12-1288
R-55i	510	11/01/11	WG	Dissolved Oxygen	4.42	mg/L	CAPA-12-1290
R-55i	510	11/01/11	WG	Dissolved Oxygen	5.32	mg/L	CAPA-12-1224
R-55i	510	05/10/11	WG	Oxidation Reduction Potential	-97.9	mV	CAPA-11-10606
R-55i	510	07/18/11	WG	Oxidation Reduction Potential	-101.1	mV	CAPA-11-14767
R-55i	510	07/18/11	WG	Oxidation Reduction Potential	-78.4	mV	CAPA-11-14769
R-55i	510	07/18/11	WG	Oxidation Reduction Potential	-81	mV	CAPA-11-14771
R-55i	510	07/18/11	WG	Oxidation Reduction Potential	-81	mV	CAPA-11-22978
R-55i	510	11/01/11	WG	Oxidation Reduction Potential	-101.7	mV	CAPA-12-1284
R-55i	510	11/01/11	WG	Oxidation Reduction Potential	-69.2	mV	CAPA-12-1286
R-55i	510	11/01/11	WG	Oxidation Reduction Potential	-101.4	mV	CAPA-12-1288
R-55i	510	11/01/11	WG	Oxidation Reduction Potential	-88.6	mV	CAPA-12-1290

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55i	510	11/01/11	WG	Oxidation Reduction Potential	-73.7	mV	CAPA-12-1224
R-55i	510	05/10/11	WG	pH	7.52	SU	CAPA-11-10606
R-55i	510	07/18/11	WG	pH	6.96	SU	CAPA-11-14767
R-55i	510	07/18/11	WG	pH	7.24	SU	CAPA-11-14769
R-55i	510	07/18/11	WG	pH	7.37	SU	CAPA-11-22978
R-55i	510	07/18/11	WG	pH	7.37	SU	CAPA-11-14771
R-55i	510	11/01/11	WG	pH	6.88	SU	CAPA-12-1284
R-55i	510	11/01/11	WG	pH	7.07	SU	CAPA-12-1286
R-55i	510	11/01/11	WG	pH	7.15	SU	CAPA-12-1288
R-55i	510	11/01/11	WG	pH	7.28	SU	CAPA-12-1290
R-55i	510	11/01/11	WG	pH	7.37	SU	CAPA-12-1224
R-55i	510	05/10/11	WG	Specific Conductance	322	µS/cm	CAPA-11-10606
R-55i	510	07/18/11	WG	Specific Conductance	333	µS/cm	CAPA-11-14767
R-55i	510	07/18/11	WG	Specific Conductance	321	µS/cm	CAPA-11-14769
R-55i	510	07/18/11	WG	Specific Conductance	317	µS/cm	CAPA-11-22978
R-55i	510	07/18/11	WG	Specific Conductance	317	µS/cm	CAPA-11-14771
R-55i	510	11/01/11	WG	Specific Conductance	333	µS/cm	CAPA-12-1284
R-55i	510	11/01/11	WG	Specific Conductance	322	µS/cm	CAPA-12-1286
R-55i	510	11/01/11	WG	Specific Conductance	320	µS/cm	CAPA-12-1288
R-55i	510	11/01/11	WG	Specific Conductance	311	µS/cm	CAPA-12-1290
R-55i	510	11/01/11	WG	Specific Conductance	307	µS/cm	CAPA-12-1224
R-55i	510	05/10/11	WG	Temperature	18.21	deg C	CAPA-11-10606
R-55i	510	07/18/11	WG	Temperature	18.14	deg C	CAPA-11-14767
R-55i	510	07/18/11	WG	Temperature	18.89	deg C	CAPA-11-14769
R-55i	510	07/18/11	WG	Temperature	18.75	deg C	CAPA-11-14771
R-55i	510	07/18/11	WG	Temperature	18.75	deg C	CAPA-11-22978
R-55i	510	11/01/11	WG	Temperature	17.08	deg C	CAPA-12-1284
R-55i	510	11/01/11	WG	Temperature	17.38	deg C	CAPA-12-1286

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-55i	510	11/01/11	WG	Temperature	17.47	deg C	CAPA-12-1288
R-55i	510	11/01/11	WG	Temperature	17.61	deg C	CAPA-12-1290
R-55i	510	11/01/11	WG	Temperature	17.69	deg C	CAPA-12-1224
R-55i	510	05/10/11	WG	Turbidity	1.63	NTU	CAPA-11-10606
R-55i	510	07/18/11	WG	Turbidity	2.81	NTU	CAPA-11-14767
R-55i	510	07/18/11	WG	Turbidity	2.48	NTU	CAPA-11-14769
R-55i	510	07/18/11	WG	Turbidity	1.43	NTU	CAPA-11-14771
R-55i	510	07/18/11	WG	Turbidity	1.43	NTU	CAPA-11-22978
R-55i	510	11/01/11	WG	Turbidity	1.82	NTU	CAPA-12-1284
R-55i	510	11/01/11	WG	Turbidity	3.5	NTU	CAPA-12-1286
R-55i	510	11/01/11	WG	Turbidity	2.73	NTU	CAPA-12-1288
R-55i	510	11/01/11	WG	Turbidity	2.03	NTU	CAPA-12-1290
R-55i	510	11/01/11	WG	Turbidity	1.2	NTU	CAPA-12-1224
R-56	945	02/03/11	WG	Dissolved Oxygen	3.13	mg/L	CAPA-11-4722
R-56	945	05/10/11	WG	Dissolved Oxygen	5.2	mg/L	CAPA-11-9510
R-56	945	07/20/11	WG	Dissolved Oxygen	5.95	mg/L	CAPA-11-14745
R-56	945	07/20/11	WG	Dissolved Oxygen	5.74	mg/L	CAPA-11-23029
R-56	945	11/02/11	WG	Dissolved Oxygen	5.59	mg/L	CAPA-12-1207
R-56	945	02/03/11	WG	Oxidation Reduction Potential	169.4	mV	CAPA-11-4722
R-56	945	05/10/11	WG	Oxidation Reduction Potential	103.9	mV	CAPA-11-9510
R-56	945	07/20/11	WG	Oxidation Reduction Potential	122.2	mV	CAPA-11-14745
R-56	945	07/20/11	WG	Oxidation Reduction Potential	136.1	mV	CAPA-11-23029
R-56	945	11/02/11	WG	Oxidation Reduction Potential	102.9	mV	CAPA-12-1207
R-56	945	02/03/11	WG	pH	7.66	SU	CAPA-11-4722
R-56	945	05/10/11	WG	pH	7.88	SU	CAPA-11-9510
R-56	945	07/20/11	WG	pH	8.07	SU	CAPA-11-14745
R-56	945	07/20/11	WG	pH	8.03	SU	CAPA-11-23029
R-56	945	11/02/11	WG	pH	8.05	SU	CAPA-12-1207



Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56	945	02/03/11	WG	Specific Conductance	145	µS/cm	CAPA-11-4722
R-56	945	05/10/11	WG	Specific Conductance	151	µS/cm	CAPA-11-9510
R-56	945	07/20/11	WG	Specific Conductance	153	µS/cm	CAPA-11-14745
R-56	945	07/20/11	WG	Specific Conductance	153	µS/cm	CAPA-11-23029
R-56	945	11/02/11	WG	Specific Conductance	149	µS/cm	CAPA-12-1207
R-56	945	02/03/11	WG	Temperature	19.03	deg C	CAPA-11-4722
R-56	945	05/10/11	WG	Temperature	20.96	deg C	CAPA-11-9510
R-56	945	07/20/11	WG	Temperature	21.72	deg C	CAPA-11-14745
R-56	945	07/20/11	WG	Temperature	21.67	deg C	CAPA-11-23029
R-56	945	11/02/11	WG	Temperature	19.46	deg C	CAPA-12-1207
R-56	945	02/03/11	WG	Turbidity	0.71	NTU	CAPA-11-4722
R-56	945	05/10/11	WG	Turbidity	0.42	NTU	CAPA-11-9510
R-56	945	07/20/11	WG	Turbidity	0.37	NTU	CAPA-11-14745
R-56	945	07/20/11	WG	Turbidity	0.32	NTU	CAPA-11-23029
R-56	945	11/02/11	WG	Turbidity	0.37	NTU	CAPA-12-1207
R-56	1046.6	07/20/11	WG	Dissolved Oxygen	3.51	mg/L	CAPA-11-14748
R-56	1046.6	07/20/11	WG	Dissolved Oxygen	4.05	mg/L	CAPA-11-14750
R-56	1046.6	07/20/11	WG	Dissolved Oxygen	4.87	mg/L	CAPA-11-14752
R-56	1046.6	07/20/11	WG	Dissolved Oxygen	4.9	mg/L	CAPA-11-23032
R-56	1046.6	11/02/11	WG	Dissolved Oxygen	5.03	mg/L	CAPA-12-1213
R-56	1046.6	07/20/11	WG	Oxidation Reduction Potential	35.2	mV	CAPA-11-14748
R-56	1046.6	07/20/11	WG	Oxidation Reduction Potential	83.9	mV	CAPA-11-14750
R-56	1046.6	07/20/11	WG	Oxidation Reduction Potential	113.7	mV	CAPA-11-14752
R-56	1046.6	07/20/11	WG	Oxidation Reduction Potential	117.9	mV	CAPA-11-23032
R-56	1046.6	11/02/11	WG	Oxidation Reduction Potential	83.5	mV	CAPA-12-1213
R-56	1046.6	07/20/11	WG	pH	8.51	SU	CAPA-11-14748
R-56	1046.6	07/20/11	WG	pH	8.36	SU	CAPA-11-14750
R-56	1046.6	07/20/11	WG	pH	8.2	SU	CAPA-11-14752

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-56	1046.6	07/20/11	WG	pH	8.18	SU	CAPA-11-23032
R-56	1046.6	11/02/11	WG	pH	8.38	SU	CAPA-12-1213
R-56	1046.6	07/20/11	WG	Specific Conductance	143	µS/cm	CAPA-11-14748
R-56	1046.6	07/20/11	WG	Specific Conductance	21.66	µS/cm	CAPA-11-14750
R-56	1046.6	07/20/11	WG	Specific Conductance	139	µS/cm	CAPA-11-14752
R-56	1046.6	07/20/11	WG	Specific Conductance	135	µS/cm	CAPA-11-23032
R-56	1046.6	11/02/11	WG	Specific Conductance	135	µS/cm	CAPA-12-1213
R-56	1046.6	07/20/11	WG	Temperature	20.9	deg C	CAPA-11-14748
R-56	1046.6	07/20/11	WG	Temperature	21.65	deg C	CAPA-11-14750
R-56	1046.6	07/20/11	WG	Temperature	21.62	deg C	CAPA-11-14752
R-56	1046.6	07/20/11	WG	Temperature	21.63	deg C	CAPA-11-23032
R-56	1046.6	11/02/11	WG	Temperature	20.7	deg C	CAPA-12-1213
R-56	1046.6	07/20/11	WG	Turbidity	0.82	NTU	CAPA-11-14748
R-56	1046.6	07/20/11	WG	Turbidity	0.71	NTU	CAPA-11-14750
R-56	1046.6	07/20/11	WG	Turbidity	0.64	NTU	CAPA-11-14752
R-56	1046.6	07/20/11	WG	Turbidity	0.5	NTU	CAPA-11-23032
R-56	1046.6	11/02/11	WG	Turbidity	0.63	NTU	CAPA-12-1213
R-57	910	07/13/11	WG	Dissolved Oxygen	3.16	mg/L	CAPA-11-14754
R-57	910	07/13/11	WG	Dissolved Oxygen	4.16	mg/L	CAPA-11-14756
R-57	910	07/13/11	WG	Dissolved Oxygen	4.71	mg/L	CAPA-11-14758
R-57	910	07/13/11	WG	Dissolved Oxygen	4.71	mg/L	CAPA-11-23035
R-57	910	10/21/11	WG	Dissolved Oxygen	4.7	mg/L	CAPA-12-1215
R-57	910	07/13/11	WG	Oxidation Reduction Potential	-66.8	mV	CAPA-11-14754
R-57	910	07/13/11	WG	Oxidation Reduction Potential	-67.3	mV	CAPA-11-14756
R-57	910	07/13/11	WG	Oxidation Reduction Potential	-69.3	mV	CAPA-11-14758
R-57	910	07/13/11	WG	Oxidation Reduction Potential	-69.3	mV	CAPA-11-23035
R-57	910	10/21/11	WG	Oxidation Reduction Potential	70.9	mV	CAPA-12-1215
R-57	910	07/13/11	WG	pH	7.83	SU	CAPA-11-14754

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57	910	07/13/11	WG	pH	7.83	SU	CAPA-11-14756
R-57	910	07/13/11	WG	pH	7.87	SU	CAPA-11-14758
R-57	910	07/13/11	WG	pH	7.87	SU	CAPA-11-23035
R-57	910	10/21/11	WG	pH	7.89	SU	CAPA-12-1215
R-57	910	07/13/11	WG	Specific Conductance	138	µS/cm	CAPA-11-14754
R-57	910	07/13/11	WG	Specific Conductance	135	µS/cm	CAPA-11-14756
R-57	910	07/13/11	WG	Specific Conductance	134	µS/cm	CAPA-11-14758
R-57	910	07/13/11	WG	Specific Conductance	134	µS/cm	CAPA-11-23035
R-57	910	10/21/11	WG	Specific Conductance	131	µS/cm	CAPA-12-1215
R-57	910	07/13/11	WG	Temperature	22.54	deg C	CAPA-11-14754
R-57	910	07/13/11	WG	Temperature	22.82	deg C	CAPA-11-14756
R-57	910	07/13/11	WG	Temperature	22.84	deg C	CAPA-11-14758
R-57	910	07/13/11	WG	Temperature	22.84	deg C	CAPA-11-23035
R-57	910	10/21/11	WG	Temperature	22.54	deg C	CAPA-12-1215
R-57	910	07/13/11	WG	Turbidity	0.27	NTU	CAPA-11-14754
R-57	910	07/13/11	WG	Turbidity	0.2	NTU	CAPA-11-14756
R-57	910	07/13/11	WG	Turbidity	0.33	NTU	CAPA-11-14758
R-57	910	07/13/11	WG	Turbidity	0.33	NTU	CAPA-11-23035
R-57	910	10/21/11	WG	Turbidity	0.35	NTU	CAPA-12-1215
R-57	971.5	07/13/11	WG	Dissolved Oxygen	4.62	mg/L	CAPA-11-14760
R-57	971.5	07/13/11	WG	Dissolved Oxygen	5.44	mg/L	CAPA-11-14762
R-57	971.5	07/13/11	WG	Dissolved Oxygen	5.68	mg/L	CAPA-11-14765
R-57	971.5	07/13/11	WG	Dissolved Oxygen	5.68	mg/L	CAPA-11-23039
R-57	971.5	10/21/11	WG	Dissolved Oxygen	5.82	mg/L	CAPA-12-1218
R-57	971.5	07/13/11	WG	Oxidation Reduction Potential	34.8	mV	CAPA-11-14760
R-57	971.5	07/13/11	WG	Oxidation Reduction Potential	48.1	mV	CAPA-11-14762
R-57	971.5	07/13/11	WG	Oxidation Reduction Potential	61	mV	CAPA-11-14765
R-57	971.5	07/13/11	WG	Oxidation Reduction Potential	61	mV	CAPA-11-23039

Location	Depth (ft)	Date	Field Matrix	Analyte	Result	Unit	Sample
R-57	971.5	10/21/11	WG	Oxidation Reduction Potential	85.1	mV	CAPA-12-1218
R-57	971.5	07/13/11	WG	pH	7.36	SU	CAPA-11-14760
R-57	971.5	07/13/11	WG	pH	7.46	SU	CAPA-11-14762
R-57	971.5	07/13/11	WG	pH	7.51	SU	CAPA-11-14765
R-57	971.5	07/13/11	WG	pH	7.51	SU	CAPA-11-23039
R-57	971.5	10/21/11	WG	pH	7.66	SU	CAPA-12-1218
R-57	971.5	07/13/11	WG	Specific Conductance	136	µS/cm	CAPA-11-14760
R-57	971.5	07/13/11	WG	Specific Conductance	121	µS/cm	CAPA-11-14762
R-57	971.5	07/13/11	WG	Specific Conductance	121	µS/cm	CAPA-11-14765
R-57	971.5	07/13/11	WG	Specific Conductance	121	µS/cm	CAPA-11-23039
R-57	971.5	10/21/11	WG	Specific Conductance	128	µS/cm	CAPA-12-1218
R-57	971.5	07/13/11	WG	Temperature	23.01	deg C	CAPA-11-14760
R-57	971.5	07/13/11	WG	Temperature	23.16	deg C	CAPA-11-14762
R-57	971.5	07/13/11	WG	Temperature	23.21	deg C	CAPA-11-14765
R-57	971.5	07/13/11	WG	Temperature	23.21	deg C	CAPA-11-23039
R-57	971.5	10/21/11	WG	Temperature	22.48	deg C	CAPA-12-1218
R-57	971.5	07/13/11	WG	Turbidity	1.16	NTU	CAPA-11-14760
R-57	971.5	07/13/11	WG	Turbidity	1.87	NTU	CAPA-11-14762
R-57	971.5	07/13/11	WG	Turbidity	0.65	NTU	CAPA-11-14765
R-57	971.5	07/13/11	WG	Turbidity	0.65	NTU	CAPA-11-23039
R-57	971.5	10/21/11	WG	Turbidity	0.46	NTU	CAPA-12-1218

<sup>a</sup> WG = Groundwater.

<sup>b</sup> SU = Standard unit.

<sup>c</sup> NTU = Nephelometric turbidity unit.

## **Appendix B**

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



## **Appendix C**

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*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 acronyms, abbreviations, symbols, and codes in the lists.

### Acronyms and Abbreviations

Acronym, Abbreviation, or Symbol	Description
<b>Miscellaneous</b>	
%	percent
%D	percent difference
%R	percent recovery
%RSD	percent 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 chromatograph/mass spectrometer
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
<b>Miscellaneous (continued)</b>	
IS	internal standard
LAL	lower acceptance limit
LANL	Los Alamos National Laboratory
LC/MS/MS	liquid chromatography/mass spectrometry/mass spectrometry
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

**Acronyms and Abbreviations (continued)**

Acronym, Abbreviation, or Symbol	Description
<b>Miscellaneous (continued)</b>	
TCDD	tetrachlorodibenzo-p-dioxin
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
<b>Field Matrix Codes</b>	
W	water
WG	groundwater
WM	snowmelt
WP	persistent flow
WS	base flow
WT	storm runoff
<b>Field Prep Codes</b>	
F	filtered
UF	unfiltered
<b>Field QC Type Codes</b>	
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
PEK	performance evaluation known
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

**Acronyms and Abbreviations (continued)**

Acronym, Abbreviation, or Symbol	Description
<b>Analytical Suite Codes</b>	
ANION	anions
DIOX/FUR, Diox/Fur	dioxins and furans
DRO	diesel range organics
GAMMA, GAMMA_SPEC	gamma spectroscopy
Geninorg, GENINORG	general inorganics
GRO	gasoline range organics
GROSSA	gross alpha
GROSSB	gross beta
HERB	herbicides
HEXP	high explosives
INORGANIC	inorganics
ISOTOPE, Isotope	isotope ratios
METALS, Metals	metals
PCB	polychlorinated biphenyls
PCB_CONG, PCB Cong	PCB congeners
PEST	pesticides
PEST/PCB, PESTPCB	pesticides and PCBs
RAD, Rad	radiochemistry
SVOA	semivolatile organics
SVOC	semivolatile organic compounds
VOA	volatile organics
VOC	volatile organic compounds
<b>Lab Sample Type Codes</b>	
CS	client sample
DL	dilution
DUP	duplicate
RE	reanalysis
REDL	reanalysis dilution
REDP	reanalysis duplicate
RI	reissue
TRP	triplicate
<b>Lab Codes</b>	
ALTC	Alta Analytical Laboratory, Inc., San Diego, CA
ARSL	American Radiation Services—Primary
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)

**Acronyms and Abbreviations (continued)**

Acronym, Abbreviation, or Symbol	Description
<b>Lab Codes (continued)</b>	
EES6	Hydrology, Geochemistry, and Geology Group (LANL)
ESE	Environmental Sciences & Engineering, Inc., Gainesville, FL
FLD	measurement taken in field
GEL	General Engineering Laboratories, Inc.
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

### 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.
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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	904.6	06/15/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.08	—	—	—	permil	—	—	10-3426	CAPA-10-17604	EES6
R-20	904.6	12/01/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.72	—	—	—	permil	—	—	10-748	CAPA-10-6375	EES6
R-20	904.6	12/01/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.73	—	—	—	permil	—	—	10-748	CAPA-10-6375	EES6
R-20	904.6	06/02/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.07	—	—	—	permil	—	—	09-2150	CAPA-09-9409	EES6
R-20	904.6	03/10/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.01	—	—	—	permil	—	—	09-1175	CAPA-09-4371	EES6
R-20	904.6	03/10/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.85	—	—	—	permil	—	—	09-1161	CAPA-09-4599	EES6
R-20	904.6	03/10/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.62	—	—	—	permil	—	—	09-1161	CAPA-09-4599	EES6
R-20	904.6	07/27/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.66	6.71E-01	2.24E+00	—	pCi/L	U	U	11-3020	CAPA-11-22877	ARSL
R-20	904.6	04/20/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.25	6.71E-01	2.27E+00	—	pCi/L	U	U	11-2197	CAPA-11-9309	ARSL
R-20	904.6	01/27/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.29	4.79E-01	1.66E+00	—	pCi/L	U	U	11-1276	CAPA-11-3007	ARSL
R-20	904.6	10/20/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.45	4.79E-01	1.60E+00	—	pCi/L	U	U	11-304	CAPA-10-27373	ARSL
R-20	904.6	08/03/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.73	6.39E-01	2.20E+00	—	pCi/L	U	U	10-3986	CAPA-10-24105	ARSL
R-20	904.6	06/15/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.89	4.47E-01	1.53E+00	—	pCi/L	U	U	10-3425	CAPA-10-17601	ARSL
R-20	904.6	03/13/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.29	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2447	CAPA-10-12817	UMTL
R-20	904.6	12/01/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	10-750	CAPA-10-6373	UMTL
R-20	904.6	09/02/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.03	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3165	CAPA-09-12263	UMTL
R-20	904.6	06/02/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.10	2.87E-01	2.87E-01	—	pCi/L	U	U	09-2149	CAPA-09-9410	UMTL
R-20	1147.1	02/24/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	17.14	—	—	—	permil	—	—	10-2109	CAPA-10-12820	EES6
R-20	1147.1	02/24/10	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	14.39	—	—	—	permil	—	—	10-2109	CAPA-10-12820	EES6
R-20	1147.1	03/09/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.23	—	—	—	permil	—	—	09-1146	CAPA-09-4374	EES6
R-20	1147.1	09/18/08	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.59	—	—	—	permil	—	—	08-1990	CAPA-08-15066	EES6
R-20	1147.1	07/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.28	6.71E-01	2.14E+00	—	pCi/L	U	U	11-2942	CAPA-11-22881	ARSL
R-20	1147.1	04/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.55	8.94E-01	2.94E+00	—	pCi/L	U	U	11-2197	CAPA-11-9314	ARSL
R-20	1147.1	01/21/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	2.20	6.71E-01	1.82E+00	—	pCi/L	—	—	11-1211	CAPA-11-3010	ARSL
R-20	1147.1	10/11/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.82	7.66E-01	2.36E+00	—	pCi/L	U	U	11-195	CAPA-10-27377	ARSL
R-20	1147.1	07/30/10	WG	UF	RE	FD	Rad	LLEE	Tritium	<	-2.55	7.02E-01	2.14E+00	—	pCi/L	U	U	10-3986	CAPA-10-24112	ARSL
R-20	1147.1	07/30/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-2.04	6.07E-01	1.82E+00	—	pCi/L	U	U	10-3986	CAPA-10-24110	ARSL
R-20	1147.1	06/01/10	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-1.05	5.43E-01	1.82E+00	—	pCi/L	U	U	10-3290	CAPA-10-17609	ARSL
R-20	1147.1	06/01/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.22	5.11E-01	1.76E+00	—	pCi/L	U	U	10-3290	CAPA-10-17607	ARSL
R-20	1147.1	02/24/10	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2251	CAPA-10-12825	UMTL
R-20	1147.1	02/24/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.19	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2251	CAPA-10-12823	UMTL
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	10-845	CAPA-10-6855	UMTL
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.00	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3165	CAPA-09-12265	UMTL
R-21	888.8	04/19/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.44	—	—	—	permil	—	—	11-2205	CAPA-11-9315	EES6
R-21	888.8	10/11/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.98	—	—	—	permil	—	—	11-109	CAPA-10-27382	EES6
R-21	888.8	06/11/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.56	—	—	—	permil	—	—	10-3396	CAPA-10-17672	EES6
R-21	888.8	03/12/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.84	—	—	—	permil	—	—	10-2442	CAPA-10-12829	EES6
R-21	888.8	12/04/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.62	—	—	—	permil	—	—	10-827	CAPA-10-6381	EES6
R-21	888.8	04/19/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.09	—	—	—	permil	—	—	11-2205	CAPA-11-9316	EES6
R-21	888.8	04/19/11	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.47	—	—	—	permil	—	—	11-2205	CAPA-11-9316	EES6
R-21	888.8	10/11/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.37	—	—	—	permil	—	—	11-109	CAPA-10-27381	EES6
R-21	888.8	06/11/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.48	—	—	—	permil	—	—	10-3396	CAPA-10-17673	EES6
R-21	888.8	03/12/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.54	—	—	—	permil	—	—	10-2442	CAPA-10-12826	EES6
R-21	888.8	12/04/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.58	—	—	—	permil	—	—	10-827	CAPA-10-6380	EES6
R-21	888.8	12/04/09	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.90	—	—	—	permil	—	—	10-827	CAPA-10-6380	EES6
R-21	888.8	04/19/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.39	—	—	—	permil	—	—	11-2205	CAPA-11-9315	EES6
R-21	888.8	10/11/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.16	—	—	—	permil	—	—	11-109	CAPA-10-27382	EES6
R-21	888.8	06/11/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.01	—	—	—	permil	—	—	10-3396	CAPA-10-17672	EES6
R-21	888.8	06/11/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.13	—	—	—	permil	—	—	10-3396	CAPA-10-17672	EES6
R-21	888.8	03/12/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.24	—	—	—	permil	—	—	10-2442	CAPA-10-12829	EES6

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-21	888.8	12/04/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.73	—	—	—	permil	—	—	10-827	CAPA-10-6381	EES6
R-21	888.8	12/04/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.81	—	—	—	permil	—	—	10-827	CAPA-10-6381	EES6
R-21	888.8	06/11/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.92	—	—	—	permil	—	—	10-3396	CAPA-10-17673	EES6
R-21	888.8	03/12/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.63	—	—	—	permil	—	—	10-2442	CAPA-10-12826	EES6
R-21	888.8	12/04/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-5.03	—	—	—	permil	—	—	10-827	CAPA-10-6380	EES6
R-21	888.8	12/04/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.64	—	—	—	permil	—	—	10-827	CAPA-10-6380	EES6
R-21	888.8	08/18/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.87	—	—	—	permil	—	—	09-2926	CAMO-09-9906	EES6
R-21	888.8	08/18/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.45	—	—	—	permil	—	—	09-2926	CAMO-09-9906	EES6
R-21	888.8	07/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.86	6.39E-01	2.14E+00	—	pCi/L	U	U	11-2942	CAPA-11-22884	ARSL
R-21	888.8	04/19/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.44	7.34E-01	2.55E+00	—	pCi/L	U	U	11-2207	CAPA-11-9315	ARSL
R-21	888.8	01/27/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.51	4.79E-01	1.63E+00	—	pCi/L	U	U	11-1276	CAPA-11-3013	ARSL
R-21	888.8	10/11/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	4.57	9.26E-01	1.85E+00	—	pCi/L	—	—	11-112	CAPA-10-27382	ARSL
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.48	5.75E-01	1.92E+00	—	pCi/L	U	U	10-4110	CAPA-10-24115	ARSL
R-21	888.8	06/11/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-1.44	6.71E-01	2.27E+00	—	pCi/L	U	U	10-3425	CAPA-10-17672	ARSL
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2447	CAPA-10-12829	UMTL
R-21	888.8	12/04/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.26	2.87E-01	2.87E-01	—	pCi/L	U	U	10-845	CAPA-10-6381	UMTL
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.22	2.87E-01	2.87E-01	—	pCi/L	U	U	09-2930	CAMO-09-9908	UMTL
R-21	888.8	02/18/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.26	2.87E-01	2.87E-01	—	pCi/L	U	U	09-1039	CAMO-09-2631	UMTL
R-23	816	08/12/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.32	—	—	—	permil	—	—	10-4142	CAPA-10-24117	EES6
R-23	816	06/09/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.26	—	—	—	permil	—	—	10-3376	CAPA-10-17738	EES6
R-23	816	12/09/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.89	—	—	—	permil	—	—	10-877	CAPA-10-6349	EES6
R-23	816	07/22/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.21	7.66E-01	2.49E+00	—	pCi/L	U	U	11-2942	CAPA-11-22870	ARSL
R-23	816	04/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.25	7.34E-01	2.49E+00	—	pCi/L	U	U	11-2197	CAPA-11-9588	ARSL
R-23	816	01/24/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.69	8.30E-01	2.65E+00	—	pCi/L	U	R	11-1211	CAPA-11-2976	ARSL
R-23	816	01/24/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.95	8.62E-01	2.65E+00	—	pCi/L	U	U	11-1211	CAPA-11-2976	ARSL
R-23	816	10/22/10	WG	UF	RE	FD	Rad	LLEE	Tritium	<	0.80	7.34E-01	2.39E+00	—	pCi/L	U	U	11-304	CAPA-10-27388	ARSL
R-23	816	10/22/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.29	3.51E-01	1.15E+00	—	pCi/L	U	U	11-304	CAPA-10-27384	ARSL
R-23	816	08/12/10	WG	UF	RE	FD	Rad	LLEE	Tritium	<	1.02	6.07E-01	1.98E+00	—	pCi/L	U	U	10-4210	CAPA-10-24120	ARSL
R-23	816	08/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.82	6.71E-01	2.01E+00	—	pCi/L	U	U	10-4210	CAPA-10-24119	ARSL
R-23	816	06/09/10	WG	UF	RE	FD	Rad	LLEE	Tritium	<	-1.25	6.71E-01	2.27E+00	—	pCi/L	U	U	10-3425	CAPA-10-17734	ARSL
R-23	816	06/09/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.48	6.71E-01	2.20E+00	—	pCi/L	U	U	10-3425	CAPA-10-17737	ARSL
R-23	816	03/05/10	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.16	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2383	CAPA-10-12834	UMTL
R-23	816	03/05/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.26	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2383	CAPA-10-12833	UMTL
R-23	816	12/09/09	WG	UF	CS	FD	Rad	LLEE	Tritium	<	0.22	2.87E-01	2.87E-01	—	pCi/L	U	U	10-954	CAPA-10-6371	UMTL
R-23	816	12/09/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.13	2.87E-01	2.87E-01	—	pCi/L	U	U	10-954	CAPA-10-6347	UMTL
R-23	816	09/03/09	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.26	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3165	CAPA-09-12273	UMTL
R-23	816	09/03/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.38	2.87E-01	2.87E-01	—	pCi/L	—	U	09-3165	CAPA-09-12270	UMTL
R-23	816	06/04/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.26	2.87E-01	2.87E-01	—	pCi/L	U	U	09-2260	CAPA-09-9417	UMTL
R-23i	400.3	08/09/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.70	—	—	—	permil	—	—	10-4080	CAPA-10-24088	EES6
R-23i	400.3	06/15/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.92	—	—	—	permil	—	—	10-3421	CAPA-10-17582	EES6
R-23i	400.3	03/10/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.52	—	—	—	permil	—	—	10-2426	CAPA-10-12895	EES6
R-23i	400.3	03/10/10	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.42	—	—	—	permil	—	—	10-2426	CAPA-10-12895	EES6
R-23i	400.3	12/03/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.51	—	—	—	permil	—	—	10-806	CAPA-10-6788	EES6
R-23i	400.3	09/10/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.27	—	—	—	permil	—	—	09-3211	CAPA-09-12237	EES6
R-23i	400.3	06/09/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	0.63	—	—	—	permil	—	—	09-2261	CAPA-09-9456	EES6
R-23i	400.3	03/03/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.61	—	—	—	permil	—	—	09-1074	CAPA-09-4353	EES6
R-23i	400.3	09/16/08	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.74	—	—	—	permil	—	—	08-1958	CAPA-08-15031	EES6
R-23i	400.3	10/21/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	105.27	1.59E+01	2.39E+00	—	pCi/L	—	—	11-304	CAPA-10-26931	ARSL
R-23i	400.3	06/15/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	94.10	1.41E+01	1.95E+00	—	pCi/L	—	—	10-3425	CAPA-10-17584	ARSL
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	152.31	5.11E+00	2.87E-01	—	pCi/L	—	—	10-2447	CAPA-10-12894	UMTL

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	185.19	6.07E+00	2.87E-01	—	pCi/L	—	—	10-845	CAPA-10-6787	UMTL
R-23i	400.3	09/10/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	188.71	6.07E+00	2.87E-01	—	pCi/L	—	—	09-3246	CAPA-09-12239	UMTL
R-23i	400.3	06/09/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	228.30	7.66E+00	2.87E-01	—	pCi/L	—	—	09-2260	CAPA-09-9457	UMTL
R-23i	470.2	08/04/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.14	—	—	—	permil	—	—	10-3997	CAPA-10-24084	EES6
R-23i	470.2	06/17/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.58	—	—	—	permil	—	—	10-3450	CAPA-10-17576	EES6
R-23i	470.2	03/09/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.27	—	—	—	permil	—	—	10-2426	CAPA-10-12900	EES6
R-23i	470.2	12/02/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.40	—	—	—	permil	—	—	10-769	CAPA-10-6152	EES6
R-23i	470.2	12/02/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.73	—	—	—	permil	—	—	10-769	CAPA-10-6152	EES6
R-23i	470.2	09/16/08	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.83	—	—	—	permil	—	—	08-1958	CAPA-08-15012	EES6
R-23i	470.2	10/18/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	30.37	4.69E+00	2.43E+00	—	pCi/L	—	—	11-195	CAPA-10-26945	ARSL
R-23i	470.2	06/17/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	21.49	3.35E+00	1.66E+00	—	pCi/L	—	—	10-3479	CAPA-10-17577	ARSL
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	30.65	9.58E-01	2.87E-01	—	pCi/L	—	—	10-2447	CAPA-10-12899	UMTL
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	30.97	9.58E-01	2.87E-01	—	pCi/L	—	—	10-768	CAPA-10-6151	UMTL
R-23i	470.2	09/08/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	30.33	9.58E-01	2.87E-01	—	pCi/L	—	—	09-3172	CAPA-09-12244	UMTL
R-23i	470.2	06/04/09	WG	UF	CS	FD	Rad	LLEE	Tritium	—	29.38	9.58E-01	2.87E-01	—	pCi/L	—	—	09-2260	CAPA-09-9356	UMTL
R-23i	470.2	06/04/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	28.35	9.26E-01	2.87E-01	—	pCi/L	—	—	09-2260	CAPA-09-9354	UMTL
R-23i	524	08/04/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.31	—	—	—	permil	—	—	10-3997	CAPA-10-24087	EES6
R-23i	524	06/16/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.05	—	—	—	permil	—	—	10-3433	CAPA-10-17579	EES6
R-23i	524	12/01/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.90	—	—	—	permil	—	—	10-736	CAPA-10-6862	EES6
R-23i	524	09/15/08	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.94	—	—	—	permil	—	—	08-1947	CAPA-08-15016	EES6
R-23i	524	10/18/10	WG	UF	RE	FD	Rad	LLEE	Tritium	—	31.00	4.79E+00	2.39E+00	—	pCi/L	—	—	11-195	CAPA-10-26951	ARSL
R-23i	524	10/18/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	30.27	4.60E+00	1.63E+00	—	pCi/L	—	—	11-195	CAPA-10-26948	ARSL
R-23i	524	06/16/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	25.74	3.96E+00	2.14E+00	—	pCi/L	—	—	10-3479	CAPA-10-17580	ARSL
R-23i	524	03/08/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	33.53	9.58E-01	2.87E-01	—	pCi/L	—	—	10-2383	CAPA-10-12853	UMTL
R-23i	524	12/01/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	33.21	9.58E-01	2.87E-01	—	pCi/L	—	—	10-741	CAPA-10-6863	UMTL
R-23i	524	09/09/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	36.40	1.28E+00	2.87E-01	—	pCi/L	—	—	09-3246	CAPA-09-12246	UMTL
R-23i	524	06/10/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	32.25	9.58E-01	2.87E-01	—	pCi/L	—	J	09-2354	CAPA-09-9361	UMTL
R-32	867.5	05/02/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.25	—	—	—	permil	—	—	11-2257	CAPA-11-9318	EES6
R-32	867.5	10/14/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.02	—	—	—	permil	—	—	11-158	CAPA-10-27391	EES6
R-32	867.5	06/07/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.29	—	—	—	permil	—	—	10-3345	CAPA-10-17740	EES6
R-32	867.5	06/07/10	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.44	—	—	—	permil	—	—	10-3345	CAPA-10-17740	EES6
R-32	867.5	08/31/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	<	-78.64	—	—	1.00E-03	permil	U	—	09-3047	CAPA-09-12277	EES6
R-32	867.5	06/08/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.84	—	—	2.00E-03	permil	—	—	09-2237	CAPA-09-9418	EES6
R-32	867.5	06/08/09	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.79	—	—	—	permil	—	—	09-2237	CAPA-09-9418	EES6
R-32	867.5	05/02/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.01	—	—	—	permil	—	—	11-2257	CAPA-11-9320	EES6
R-32	867.5	10/14/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.30	—	—	—	permil	—	—	11-158	CAPA-10-27392	EES6
R-32	867.5	06/07/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.52	—	—	—	permil	—	—	10-3345	CAPA-10-17741	EES6
R-32	867.5	03/09/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.11	—	—	—	permil	—	—	10-2426	CAPA-10-12839	EES6
R-32	867.5	12/07/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.65	—	—	—	permil	—	—	10-843	CAPA-10-6376	EES6
R-32	867.5	05/02/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.14	—	—	—	permil	—	—	11-2257	CAPA-11-9318	EES6
R-32	867.5	10/14/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.77	—	—	—	permil	—	—	11-158	CAPA-10-27391	EES6
R-32	867.5	03/09/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.93	—	—	—	permil	—	—	10-2426	CAPA-10-12837	EES6
R-32	867.5	08/31/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	<	-10.96	—	—	2.00E-03	permil	U	—	09-3047	CAPA-09-12277	EES6
R-32	867.5	06/08/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.04	—	—	2.14E-02	permil	—	—	09-2237	CAPA-09-9418	EES6
R-32	867.5	06/07/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.15	—	—	—	permil	—	—	10-3345	CAPA-10-17741	EES6
R-32	867.5	03/09/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.00	—	—	—	permil	—	—	10-2426	CAPA-10-12839	EES6
R-32	867.5	12/07/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.21	—	—	—	permil	—	—	10-843	CAPA-10-6376	EES6
R-32	867.5	06/08/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.17	—	—	—	permil	—	—	09-2237	CAPA-09-9420	EES6
R-32	867.5	09/08/08	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.03	—	—	—	permil	—	—	08-1866	CAPA-08-15081	EES6
R-32	867.5	07/27/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.05	6.07E-01	2.08E+00	—	pCi/L	U	U	11-3020	CAPA-11-22695	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-32	867.5	01/25/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.45	6.07E-01	2.04E+00	—	pCi/L	U	U	11-1211	CAPA-11-3016	ARSL
R-32	867.5	10/14/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.92	7.02E-01	2.11E+00	—	pCi/L	U	U	11-195	CAPA-10-27391	ARSL
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.67	5.43E-01	1.79E+00	—	pCi/L	U	U	10-4110	CAPA-10-24125	ARSL
R-32	867.5	06/07/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.00	7.34E-01	2.14E+00	—	pCi/L	U	U	10-3346	CAPA-10-17740	ARSL
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.19	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2447	CAPA-10-12837	UMTL
R-32	867.5	12/07/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.13	2.87E-01	2.87E-01	—	pCi/L	U	U	10-845	CAPA-10-6377	UMTL
R-37	929.3	05/03/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.56	—	—	—	permil	—	—	11-2282	CAPA-11-9298	EES6
R-37	929.3	10/12/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.17	—	—	—	permil	—	—	11-124	CAPA-10-26914	EES6
R-37	929.3	06/16/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-82.08	—	—	—	permil	—	—	10-3439	CAPA-10-17949	EES6
R-37	929.3	06/16/10	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-82.51	—	—	—	permil	—	—	10-3439	CAPA-10-17949	EES6
R-37	929.3	03/02/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.35	—	—	—	permil	—	—	10-2245	CAPA-10-12855	EES6
R-37	929.3	03/02/10	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-83.18	—	—	—	permil	—	—	10-2245	CAPA-10-12855	EES6
R-37	929.3	12/18/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.53	—	—	—	permil	—	—	10-1017	CAPA-10-6823	EES6
R-37	929.3	12/18/09	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.69	—	—	—	permil	—	—	10-1017	CAPA-10-6823	EES6
R-37	929.3	05/03/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.71	—	—	—	permil	—	—	11-2282	CAPA-11-9300	EES6
R-37	929.3	10/12/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.31	—	—	—	permil	—	—	11-124	CAPA-10-26915	EES6
R-37	929.3	10/12/10	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.96	—	—	—	permil	—	—	11-124	CAPA-10-26915	EES6
R-37	929.3	06/16/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.98	—	—	—	permil	—	—	10-3439	CAPA-10-17948	EES6
R-37	929.3	03/02/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.04	—	—	—	permil	—	—	10-2245	CAPA-10-12857	EES6
R-37	929.3	12/18/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.44	—	—	—	permil	—	—	10-1017	CAPA-10-6821	EES6
R-37	929.3	12/18/09	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.12	—	—	—	permil	—	—	10-1017	CAPA-10-6821	EES6
R-37	929.3	05/03/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.10	—	—	—	permil	—	—	11-2282	CAPA-11-9298	EES6
R-37	929.3	10/12/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.24	—	—	—	permil	—	—	11-124	CAPA-10-26914	EES6
R-37	929.3	06/16/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.00	—	—	—	permil	—	—	10-3439	CAPA-10-17949	EES6
R-37	929.3	06/16/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.90	—	—	—	permil	—	—	10-3439	CAPA-10-17949	EES6
R-37	929.3	03/02/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.25	—	—	—	permil	—	—	10-2245	CAPA-10-12855	EES6
R-37	929.3	12/18/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.31	—	—	—	permil	—	—	10-1017	CAPA-10-6823	EES6
R-37	929.3	12/18/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.56	—	—	—	permil	—	—	10-1017	CAPA-10-6823	EES6
R-37	929.3	06/16/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.40	—	—	—	permil	—	—	10-3439	CAPA-10-17948	EES6
R-37	929.3	12/18/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.20	—	—	—	permil	—	—	10-1017	CAPA-10-6821	EES6
R-37	929.3	12/18/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.88	—	—	—	permil	—	—	10-1017	CAPA-10-6821	EES6
R-37	929.3	11/18/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.43	—	—	—	permil	—	—	10-620	CAMO-10-5357	EES6
R-37	929.3	11/18/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.23	—	—	—	permil	—	—	10-620	CAMO-10-5357	EES6
R-37	929.3	08/20/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.74	—	—	—	permil	—	—	09-2981	CAMO-09-9913	EES6
R-37	929.3	08/20/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-0.47	—	—	—	permil	—	—	09-2981	CAMO-09-9913	EES6
R-37	929.3	07/13/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.51	—	—	—	permil	—	—	09-2600	CAMO-09-10530	EES6
R-37	929.3	07/13/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.66	—	—	—	permil	—	—	09-2600	CAMO-09-10530	EES6
R-37	929.3	07/19/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	9.77	1.66E+00	2.14E+00	—	pCi/L	—	—	11-2878	CAPA-11-22854	ARSL
R-37	929.3	01/21/11	WG	UF	RE	FD	Rad	LLEE	Tritium	—	27.33	4.15E+00	1.37E+00	—	pCi/L	—	—	11-1211	CAPA-11-2999	ARSL
R-37	929.3	01/21/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	44.89	6.86E+00	2.55E+00	—	pCi/L	—	—	11-1211	CAPA-11-2990	ARSL
R-37	929.3	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	54.22	8.24E+00	2.39E+00	—	pCi/L	—	—	11-195	CAPA-10-26914	ARSL
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	34.10	5.20E+00	1.85E+00	—	pCi/L	—	—	10-4110	CAPA-10-24066	ARSL
R-37	929.3	06/16/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	39.53	6.07E+00	2.59E+00	—	pCi/L	—	—	10-3479	CAPA-10-17949	ARSL
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	44.70	1.28E+00	2.87E-01	—	pCi/L	—	—	10-2251	CAPA-10-12855	UMTL
R-37	929.3	12/18/09	WG	UF	RE	—	Rad	LLEE	Tritium	—	23.03	3.58E+00	2.03E+00	—	pCi/L	—	—	10-1022	CAPA-10-6823	ARSL
R-37	929.3	11/18/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	39.91	1.28E+00	2.87E-01	—	pCi/L	—	—	10-663	CAMO-10-5356	UMTL
R-37	929.3	11/18/09	WG	UF	CS	—	Rad	EPA:906.0	Tritium	<	56.70	3.30E+01	1.10E+02	—	pCi/L	U	U	10-625	CAMO-10-5356	GELC
R-37	929.3	08/20/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	1.50	2.87E-01	2.87E-01	—	pCi/L	—	—	09-3009	CAMO-09-9912	UMTL
R-37	929.3	07/13/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	11.49	3.83E-01	2.87E-01	—	pCi/L	—	—	09-2608	CAMO-09-10532	UMTL
R-37	1026	04/26/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.09	—	—	—	permil	—	—	11-2181	CAPA-11-9322	EES6

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-37	1026	10/14/10	WG	UF	CS	FD	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.46	—	—	—	permil	—	—	11-155	CAPA-10-27399	EES6
R-37	1026	10/14/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.56	—	—	—	permil	—	—	11-155	CAPA-10-27394	EES6
R-37	1026	06/08/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.52	—	—	—	permil	—	—	10-3345	CAPA-10-17952	EES6
R-37	1026	03/03/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.29	—	—	—	permil	—	—	10-2291	CAPA-10-13073	EES6
R-37	1026	03/03/10	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.85	—	—	—	permil	—	—	10-2291	CAPA-10-13073	EES6
R-37	1026	12/18/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.66	—	—	—	permil	—	—	10-1017	CAPA-10-6824	EES6
R-37	1026	12/18/09	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.58	—	—	—	permil	—	—	10-1017	CAPA-10-6824	EES6
R-37	1026	04/26/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.01	—	—	—	permil	—	—	11-2181	CAPA-11-9321	EES6
R-37	1026	10/14/10	WG	F	CS	FD	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.13	—	—	—	permil	—	—	11-155	CAPA-10-27398	EES6
R-37	1026	10/14/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.10	—	—	—	permil	—	—	11-155	CAPA-10-27395	EES6
R-37	1026	06/08/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.84	—	—	—	permil	—	—	10-3345	CAPA-10-17953	EES6
R-37	1026	03/03/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.97	—	—	—	permil	—	—	10-2291	CAPA-10-13075	EES6
R-37	1026	12/18/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.93	—	—	—	permil	—	—	10-1017	CAPA-10-6827	EES6
R-37	1026	04/26/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.06	—	—	—	permil	—	—	11-2181	CAPA-11-9322	EES6
R-37	1026	10/14/10	WG	UF	CS	FD	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.78	—	—	—	permil	—	—	11-155	CAPA-10-27399	EES6
R-37	1026	10/14/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.88	—	—	—	permil	—	—	11-155	CAPA-10-27394	EES6
R-37	1026	03/03/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.93	—	—	—	permil	—	—	10-2291	CAPA-10-13073	EES6
R-37	1026	03/03/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.04	—	—	—	permil	—	—	10-2291	CAPA-10-13073	EES6
R-37	1026	12/18/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.33	—	—	—	permil	—	—	10-1017	CAPA-10-6824	EES6
R-37	1026	12/18/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.50	—	—	—	permil	—	—	10-1017	CAPA-10-6824	EES6
R-37	1026	11/18/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.70	—	—	—	permil	—	—	10-609	CAMO-10-5483	EES6
R-37	1026	11/18/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.72	—	—	—	permil	—	—	10-609	CAMO-10-5483	EES6
R-37	1026	06/08/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.04	—	—	—	permil	—	—	10-3345	CAPA-10-17953	EES6
R-37	1026	12/18/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.69	—	—	—	permil	—	—	10-1017	CAPA-10-6827	EES6
R-37	1026	11/18/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.38	—	—	—	permil	—	—	10-609	CAMO-10-5484	EES6
R-37	1026	06/22/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.36	—	—	—	permil	—	—	09-2419	CAMO-09-10527	EES6
R-37	1026	06/22/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.94	—	—	—	permil	—	—	09-2419	CAMO-09-10527	EES6
R-37	1026	07/13/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.44	9.26E-01	3.13E+00	—	pCi/L	U	U	11-2878	CAPA-11-22886	ARSL
R-37	1026	04/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.55	8.30E-01	2.75E+00	—	pCi/L	U	U	11-2197	CAPA-11-9322	ARSL
R-37	1026	01/25/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.10	6.07E-01	2.08E+00	—	pCi/L	U	U	11-1211	CAPA-11-3019	ARSL
R-37	1026	10/14/10	WG	UF	RE	FD	Rad	LLEE	Tritium	<	0.80	6.39E-01	2.04E+00	—	pCi/L	U	U	11-195	CAPA-10-27399	ARSL
R-37	1026	10/14/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.95	7.66E-01	2.33E+00	—	pCi/L	U	U	11-195	CAPA-10-27394	ARSL
R-37	1026	08/10/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.48	5.43E-01	1.85E+00	—	pCi/L	U	U	10-4110	CAPA-10-24128	ARSL
R-37	1026	06/08/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.04	6.07E-01	1.82E+00	—	pCi/L	U	U	10-3346	CAPA-10-17952	ARSL
R-37	1026	03/03/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	4.53	2.87E-01	2.87E-01	—	pCi/L	—	—	10-2383	CAPA-10-13073	UMTL
R-37	1026	12/18/09	WG	UF	RE	—	Rad	LLEE	Tritium	—	25.54	3.93E+00	1.77E+00	—	pCi/L	—	—	10-1022	CAPA-10-6824	ARSL
R-37	1026	11/18/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	13.47	4.47E-01	2.87E-01	—	pCi/L	—	—	10-663	CAMO-10-5483	UMTL
R-37	1026	11/18/09	WG	UF	CS	—	Rad	EPA:906.0	Tritium	<	-1.68	3.00E+01	1.10E+02	—	pCi/L	U	U	10-615	CAMO-10-5483	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Calcium	—	13.1	—	—	5.00E-02	mg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.8	—	—	5.00E-02	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12	—	—	5.00E-02	mg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SM:A2340B	Hardness	—	46.4	—	—	4.50E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Geninorg	SM:A2340B	Hardness	—	48.4	—	—	4.50E-01	mg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.3	—	—	4.50E-01	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Geninorg	SM:A2340B	Hardness	—	46	—	—	4.50E-01	mg/L	—	—	11-1225	CAPA-11-3024	GELC

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45	—	—	4.50E-01	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	44.8	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Geninorg	SM:A2340B	Hardness	—	41.6	—	—	3.50E-01	mg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	44.1	—	—	3.50E-01	mg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SW-846:6010B	Magnesium	—	3.7	—	—	1.10E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	3.82	—	—	1.10E-01	mg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.75	—	—	1.10E-01	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	3.6	—	—	1.10E-01	mg/L	—	—	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.52	—	—	1.10E-01	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.54	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	3.25	—	—	8.50E-02	mg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.45	—	—	8.50E-02	mg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SW-846:6010B	Potassium	—	1.56	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.58	—	—	5.00E-02	mg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.47	—	—	5.00E-02	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.62	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.6	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.51	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.44	—	—	5.00E-02	mg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.54	—	—	5.00E-02	mg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.1	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Geninorg	SW-846:6010B	Sodium	—	9.88	—	—	1.00E-01	mg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.94	—	—	—	permil	—	—	11-2343	CAPA-11-9325	EES6
R-38	821.2	10/11/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.83	—	—	—	permil	—	—	11-124	CAPA-10-27406	EES6
R-38	821.2	06/02/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.86	—	—	—	permil	—	—	10-3321	CAPA-10-17956	EES6
R-38	821.2	03/12/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.52	—	—	—	permil	—	—	10-2442	CAPA-10-13087	EES6
R-38	821.2	12/17/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.04	—	—	—	permil	—	—	10-993	CAPA-10-6793	EES6
R-38	821.2	05/06/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.23	—	—	—	permil	—	—	11-2343	CAPA-11-9326	EES6
R-38	821.2	10/11/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.55	—	—	—	permil	—	—	11-124	CAPA-10-27408	EES6
R-38	821.2	06/02/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.22	—	—	—	permil	—	—	10-3321	CAPA-10-17955	EES6
R-38	821.2	03/12/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.55	—	—	—	permil	—	—	10-2442	CAPA-10-13089	EES6
R-38	821.2	12/17/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.44	—	—	—	permil	—	—	10-993	CAPA-10-6794	EES6
R-38	821.2	12/17/09	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.75	—	—	—	permil	—	—	10-993	CAPA-10-6794	EES6
R-38	821.2	05/06/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.01	—	—	—	permil	—	—	11-2343	CAPA-11-9325	EES6
R-38	821.2	10/11/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.19	—	—	—	permil	—	—	11-124	CAPA-10-27406	EES6
R-38	821.2	06/02/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	—	—	—	permil	—	—	10-3321	CAPA-10-17956	EES6
R-38	821.2	06/02/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.07	—	—	—	permil	—	—	10-3321	CAPA-10-17956	EES6
R-38	821.2	03/12/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.14	—	—	—	permil	—	—	10-2442	CAPA-10-13087	EES6
R-38	821.2	12/17/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.69	—	—	—	permil	—	—	10-993	CAPA-10-6793	EES6
R-38	821.2	06/02/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-5.41	—	—	—	permil	—	—	10-3321	CAPA-10-17955	EES6
R-38	821.2	03/12/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.49	—	—	—	permil	—	—	10-2442	CAPA-10-13089	EES6
R-38	821.2	12/17/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.69	—	—	—	permil	—	—	10-993	CAPA-10-6794	EES6
R-38	821.2	12/17/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.12	—	—	—	permil	—	—	10-993	CAPA-10-6794	EES6
R-38	821.2	08/21/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.45	—	—	—	permil	—	—	09-2994	CAMO-09-9567	EES6

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6010B	Barium	—	29.6	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Metals	SW-846:6010B	Barium	—	30.7	—	—	1.00E+00	µg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.4	—	—	1.00E+00	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Metals	SW-846:6010B	Barium	—	30.3	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.9	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.6	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Metals	SW-846:6010B	Barium	—	27.1	—	—	1.00E+00	µg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.7	—	—	1.00E+00	µg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6020	Chromium	—	4.23	—	—	2.00E+00	µg/L	J	J	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	UN	UJ	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	5.21	—	—	2.50E+00	µg/L	J	J	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Metals	SW-846:6020	Chromium	—	3.21	—	—	2.50E+00	µg/L	J	J	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6020	Molybdenum	—	1.72	—	—	1.70E-01	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Metals	SW-846:6020	Molybdenum	—	1.68	—	—	1.70E-01	µg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.74	—	—	1.70E-01	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.78	—	—	1.70E-01	µg/L	—	U	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.67	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Metals	SW-846:6020	Molybdenum	—	1.73	—	—	1.00E-01	µg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.61	—	—	1.00E-01	µg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6020	Nickel	—	2.83	—	—	5.00E-01	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Metals	SW-846:6020	Nickel	—	3.16	—	—	5.00E-01	µg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	3.5	—	—	5.00E-01	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Metals	SW-846:6020	Nickel	—	3.02	—	—	5.00E-01	µg/L	—	—	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.98	—	—	5.00E-01	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	5.61	—	—	5.00E-01	µg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Metals	SW-846:6020	Nickel	—	4.03	—	—	5.00E-01	µg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	3.69	—	—	5.00E-01	µg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6010B	Strontium	—	51.3	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Metals	SW-846:6010B	Strontium	—	52.5	—	—	1.00E+00	µg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	50.7	—	—	1.00E+00	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Metals	SW-846:6010B	Strontium	—	53.2	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	52	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	49.4	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Metals	SW-846:6010B	Strontium	—	47.7	—	—	1.00E+00	µg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	50.3	—	—	1.00E+00	µg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6020	Uranium	—	0.275	—	—	6.70E-02	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Metals	SW-846:6020	Uranium	—	0.416	—	—	6.70E-02	µg/L	—	—	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.441	—	—	6.70E-02	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Metals	SW-846:6020	Uranium	—	0.404	—	—	6.70E-02	µg/L	—	—	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.399	—	—	6.70E-02	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.448	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Metals	SW-846:6020	Uranium	—	0.427	—	—	5.00E-02	µg/L	—	—	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.396	—	—	5.00E-02	µg/L	—	—	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6010B	Vanadium	—	5.31	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Metals	SW-846:6010B	Vanadium	—	4.96	—	—	1.00E+00	µg/L	J	J	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.66	—	—	1.00E+00	µg/L	J	J	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Metals	SW-846:6010B	Vanadium	—	4.86	—	—	1.00E+00	µg/L	J	J	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.86	—	—	1.00E+00	µg/L	J	J	11-1225	CAPA-11-3021	GELC



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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.66	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Metals	SW-846:6010B	Vanadium	—	3.74	—	—	1.00E+00	µg/L	J	J	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.01	—	—	1.00E+00	µg/L	J	J	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6010B	Zinc	—	10.9	—	—	3.30E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	FD	Metals	SW-846:6010B	Zinc	—	6.95	—	—	3.30E+00	µg/L	J	J	11-2344	CAPA-11-9328	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	6.25	—	—	3.30E+00	µg/L	J	J	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	FD	Metals	SW-846:6010B	Zinc	—	7.58	—	—	3.30E+00	µg/L	J	J	11-1225	CAPA-11-3024	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	7.5	—	—	3.30E+00	µg/L	J	J	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	9.36	—	—	3.30E+00	µg/L	J	J	11-128	CAPA-10-27408	GELC
R-38	821.2	08/06/10	WG	F	CS	FD	Metals	SW-846:6010B	Zinc	—	4.9	—	—	3.30E+00	µg/L	J	J	10-4046	CAPA-10-24151	GELC
R-38	821.2	08/06/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	5	—	—	3.30E+00	µg/L	J	J	10-4046	CAPA-10-24149	GELC
R-38	821.2	07/26/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-1.28	6.39E-01	2.20E+00	—	pCi/L	U	U	11-2942	CAPA-11-22893	ARSL
R-38	821.2	07/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.03	6.71E-01	2.33E+00	—	pCi/L	U	U	11-2942	CAPA-11-22889	ARSL
R-38	821.2	05/06/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	2.39	8.62E-01	2.49E+00	—	pCi/L	U	U	11-2438	CAPA-11-9327	ARSL
R-38	821.2	05/06/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.37	7.02E-01	2.24E+00	—	pCi/L	U	U	11-2438	CAPA-11-9325	ARSL
R-38	821.2	01/27/11	WG	UF	RE	FD	Rad	LLEE	Tritium	<	-0.80	5.11E-01	1.79E+00	—	pCi/L	U	U	11-1276	CAPA-11-3025	ARSL
R-38	821.2	01/27/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.51	4.47E-01	1.56E+00	—	pCi/L	U	U	11-1276	CAPA-11-3020	ARSL
R-38	821.2	10/11/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	2.94	8.94E-01	2.49E+00	—	pCi/L	—	U	11-195	CAPA-10-27406	ARSL
R-38	821.2	08/06/10	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.80	5.43E-01	1.82E+00	—	pCi/L	U	U	10-4110	CAPA-10-24152	ARSL
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.86	6.07E-01	2.08E+00	—	pCi/L	U	U	10-4110	CAPA-10-24148	ARSL
R-38	821.2	06/02/10	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-1.12	5.75E-01	1.85E+00	—	pCi/L	U	U	10-3322	CAPA-10-17957	ARSL
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.64	5.43E-01	1.85E+00	—	pCi/L	U	U	10-3322	CAPA-10-17956	ARSL
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.16	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2447	CAPA-10-13087	UMTL
R-38	821.2	12/17/09	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.42	5.80E-01	1.90E+00	—	pCi/L	U	U	10-1024	CAPA-10-6793	ARSL
R-38	821.2	08/21/09	WG	UF	CS	—	Rad	LLEE	Tritium	—	40.55	1.28E+00	2.87E-01	—	pCi/L	—	—	09-3009	CAMO-09-9566	UMTL
R-38	821.2	05/01/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.00	2.87E-01	2.87E-01	—	pCi/L	U	U	09-1741	CAMO-09-8224	UMTL
R-38	821.2	02/06/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.48	2.87E-01	2.87E-01	—	pCi/L	U	U	09-860	CAMO-09-2999	UMTL
R-39	859	04/21/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.11	—	—	—	permil	—	—	11-2146	CAPA-11-9340	EES6
R-39	859	10/08/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.25	—	—	—	permil	—	—	11-109	CAPA-10-27409	EES6
R-39	859	06/02/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.96	—	—	—	permil	—	—	10-3321	CAPA-10-17901	EES6
R-39	859	02/26/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.10	—	—	—	permil	—	—	10-2171	CAPA-10-12913	EES6
R-39	859	02/26/10	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.51	—	—	—	permil	—	—	10-2171	CAPA-10-12913	EES6
R-39	859	12/09/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.46	—	—	—	permil	—	—	10-877	CAPA-10-6797	EES6
R-39	859	12/09/09	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.10	—	—	—	permil	—	—	10-877	CAPA-10-6797	EES6
R-39	859	04/21/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.38	—	—	—	permil	—	—	11-2146	CAPA-11-9341	EES6
R-39	859	10/08/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.51	—	—	—	permil	—	—	11-109	CAPA-10-27411	EES6
R-39	859	06/02/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.85	—	—	—	permil	—	—	10-3321	CAPA-10-17902	EES6
R-39	859	02/26/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.46	—	—	—	permil	—	—	10-2171	CAPA-10-12911	EES6
R-39	859	12/09/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.74	—	—	—	permil	—	—	10-877	CAPA-10-6798	EES6
R-39	859	04/21/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.24	—	—	—	permil	—	—	11-2146	CAPA-11-9340	EES6
R-39	859	10/08/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.12	—	—	—	permil	—	—	11-109	CAPA-10-27409	EES6
R-39	859	06/02/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.88	—	—	—	permil	—	—	10-3321	CAPA-10-17901	EES6
R-39	859	06/02/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.87	—	—	—	permil	—	—	10-3321	CAPA-10-17901	EES6
R-39	859	02/26/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.18	—	—	—	permil	—	—	10-2171	CAPA-10-12913	EES6
R-39	859	12/09/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.83	—	—	—	permil	—	—	10-877	CAPA-10-6797	EES6
R-39	859	06/02/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.53	—	—	—	permil	—	—	10-3321	CAPA-10-17902	EES6
R-39	859	12/09/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.27	—	—	—	permil	—	—	10-877	CAPA-10-6798	EES6
R-39	859	06/09/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.06	—	—	—	permil	—	—	09-2261	CAPA-09-9423	EES6
R-39	859	06/09/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.33	—	—	—	permil	—	—	09-2261	CAPA-09-9423	EES6
R-39	859	03/12/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.38	—	—	—	permil	—	—	09-1206	CAPA-09-4422	EES6



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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-39	859	07/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.11	7.02E-01	2.20E+00	—	pCi/L	U	U	11-3020	CAPA-11-22896	ARSL
R-39	859	04/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.57	7.66E-01	2.68E+00	—	pCi/L	U	U	11-2197	CAPA-11-9340	ARSL
R-39	859	01/26/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.70	5.11E-01	1.76E+00	—	pCi/L	U	U	11-1276	CAPA-11-3026	ARSL
R-39	859	10/08/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.79	7.02E-01	2.04E+00	—	pCi/L	U	U	11-112	CAPA-10-27409	ARSL
R-39	859	08/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	2.68	8.62E-01	2.39E+00	—	pCi/L	—	—	10-4210	CAPA-10-24143	ARSL
R-39	859	06/02/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.18	9.90E-01	3.32E+00	—	pCi/L	U	U	10-3322	CAPA-10-17901	ARSL
R-39	859	02/26/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.00	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2251	CAPA-10-12913	UMTL
R-39	859	12/09/09	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.26	2.87E-01	2.87E-01	—	pCi/L	U	U	10-954	CAPA-10-6800	UMTL
R-39	859	12/09/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.16	2.87E-01	2.87E-01	—	pCi/L	U	U	10-954	CAPA-10-6797	UMTL
R-39	859	09/02/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3165	CAPA-09-12281	UMTL
R-40	649.7	07/12/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.12	—	—	—	permil	—	—	11-2791	CAPA-11-23047	EES6
R-40	649.7	07/12/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.27	—	—	—	permil	—	—	11-2791	CAPA-11-23043	EES6
R-40	649.7	10/20/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.28	—	—	—	permil	—	—	11-220	CAPA-10-26917	EES6
R-40	649.7	03/03/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.20	—	—	—	permil	—	—	10-2275	CAPA-10-12851	EES6
R-40	649.7	12/04/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.26	—	—	—	permil	—	—	10-817	CAPA-10-6790	EES6
R-40	649.7	08/31/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.33	—	—	1.00E-02	permil	—	—	09-3047	CAPA-09-12253	EES6
R-40	649.7	08/31/09	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.69	—	—	—	permil	—	—	09-3047	CAPA-09-12253	EES6
R-40	649.7	07/12/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.84	—	—	—	permil	—	—	11-2791	CAPA-11-23047	EES6
R-40	649.7	07/12/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.92	—	—	—	permil	—	—	11-2791	CAPA-11-23043	EES6
R-40	649.7	10/20/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.77	—	—	—	permil	—	—	11-220	CAPA-10-26917	EES6
R-40	649.7	03/03/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.77	—	—	—	permil	—	—	10-2275	CAPA-10-12851	EES6
R-40	649.7	03/03/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.93	—	—	—	permil	—	—	10-2275	CAPA-10-12851	EES6
R-40	649.7	12/04/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.48	—	—	—	permil	—	—	10-817	CAPA-10-6790	EES6
R-40	649.7	12/04/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.27	—	—	—	permil	—	—	10-817	CAPA-10-6790	EES6
R-40	649.7	08/31/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.87	—	—	1.00E-02	permil	—	—	09-3047	CAPA-09-12253	EES6
R-40	649.7	08/31/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.87	—	—	—	permil	—	—	09-3047	CAPA-09-12253	EES6
R-40	649.7	10/20/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.80	6.71E-01	2.17E+00	—	pCi/L	U	U	11-304	CAPA-10-26917	ARSL
R-40	649.7	07/28/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.76	6.71E-01	1.98E+00	—	pCi/L	U	U	10-3986	CAPA-10-24070	ARSL
R-40	649.7	03/03/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.00	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2274	CAPA-10-12851	UMTL
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.51	2.87E-01	2.87E-01	—	pCi/L	—	U	10-845	CAPA-10-6790	UMTL
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.19	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3086	CAPA-09-12253	UMTL
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.38	2.87E-01	2.87E-01	—	pCi/L	—	U	09-2354	CAPA-09-9443	UMTL
R-40	751.6	02/23/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	37.91	—	—	—	permil	—	—	10-2053	CAPA-10-13082	EES6
R-40	751.6	01/21/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.85	6.39E-01	1.85E+00	—	pCi/L	U	U	11-1211	CAPA-11-2996	ARSL
R-40	751.6	10/20/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.10	7.02E-01	2.43E+00	—	pCi/L	U	U	11-304	CAPA-10-26922	ARSL
R-40	751.6	07/28/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.06	6.07E-01	2.01E+00	—	pCi/L	U	U	10-3986	CAPA-10-24073	ARSL
R-40	751.6	06/04/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.35	4.47E-01	1.47E+00	—	pCi/L	U	U	10-3322	CAPA-10-17906	ARSL
R-40	751.6	02/23/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.13	1.28E-01	2.87E-01	—	pCi/L	U	U	10-2041	CAPA-10-13083	UMTL
R-40	751.6	12/04/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	10-845	CAPA-10-6803	UMTL
R-40	751.6	09/04/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.26	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3165	CAPA-09-12314	UMTL
R-40	849.3	04/26/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.22	—	—	—	permil	—	—	11-2194	CAPA-11-9344	EES6
R-40	849.3	10/19/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.43	—	—	—	permil	—	—	11-198	CAPA-10-27413	EES6
R-40	849.3	06/03/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.38	—	—	—	permil	—	—	10-3321	CAPA-10-17908	EES6
R-40	849.3	09/03/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.83	—	—	—	permil	—	—	09-3129	CAPA-09-12317	EES6
R-40	849.3	09/03/09	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.53	—	—	—	permil	—	—	09-3129	CAPA-09-12317	EES6
R-40	849.3	04/26/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.97	—	—	—	permil	—	—	11-2194	CAPA-11-9343	EES6
R-40	849.3	10/19/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.34	—	—	—	permil	—	—	11-198	CAPA-10-27412	EES6
R-40	849.3	06/03/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.20	—	—	—	permil	—	—	10-3321	CAPA-10-17907	EES6
R-40	849.3	09/03/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.77	—	—	—	permil	—	—	09-3129	CAPA-09-12316	EES6
R-40	849.3	04/26/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.51	—	—	—	permil	—	—	11-2194	CAPA-11-9344	EES6

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-40	849.3	10/19/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.89	—	—	—	permil	—	—	11-198	CAPA-10-27413	EES6
R-40	849.3	10/19/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.00	—	—	—	permil	—	—	11-198	CAPA-10-27413	EES6
R-40	849.3	06/03/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.12	—	—	—	permil	—	—	10-3321	CAPA-10-17908	EES6
R-40	849.3	09/03/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.13	—	—	—	permil	—	—	09-3129	CAPA-09-12317	EES6
R-40	849.3	09/03/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.33	—	—	—	permil	—	—	09-3129	CAPA-09-12317	EES6
R-40	849.3	06/03/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-5.42	—	—	—	permil	—	—	10-3321	CAPA-10-17907	EES6
R-40	849.3	02/23/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.45	—	—	—	permil	—	—	10-2036	CAPA-10-12916	EES6
R-40	849.3	12/03/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-5.36	—	—	—	permil	—	—	10-806	CAPA-10-6809	EES6
R-40	849.3	07/08/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.89	7.02E-01	2.36E+00	—	pCi/L	U	U	11-2800	CAPA-11-22901	ARSL
R-40	849.3	07/08/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.64	5.11E-01	1.79E+00	—	pCi/L	U	U	11-2800	CAPA-11-22899	ARSL
R-40	849.3	04/26/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-1.31	7.66E-01	2.68E+00	—	pCi/L	U	U	11-2197	CAPA-11-9306	ARSL
R-40	849.3	04/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.04	7.98E-01	2.68E+00	—	pCi/L	U	U	11-2197	CAPA-11-9344	ARSL
R-40	849.3	01/19/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.19	5.75E-01	1.95E+00	—	pCi/L	U	U	11-1211	CAPA-11-3030	ARSL
R-40	849.3	10/19/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.35	6.39E-01	2.20E+00	—	pCi/L	U	U	11-304	CAPA-10-27413	ARSL
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.64	7.66E-01	1.98E+00	—	pCi/L	U	U	10-3852	CAPA-10-24145	ARSL
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.99	6.07E-01	2.08E+00	—	pCi/L	U	U	10-3322	CAPA-10-17908	ARSL
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.32	1.28E-01	2.87E-01	—	pCi/L	U	U	10-2041	CAPA-10-12917	UMTL
R-40	849.3	12/03/09	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	10-845	CAPA-10-6805	UMTL
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.16	2.87E-01	2.87E-01	—	pCi/L	U	U	10-845	CAPA-10-6807	UMTL
R-41	965.3	04/21/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.86	—	—	—	permil	—	—	11-2146	CAPA-11-9358	EES6
R-41	965.3	10/08/10	WG	UF	CS	FD	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.30	—	—	—	permil	—	—	11-109	CAPA-10-27402	EES6
R-41	965.3	10/08/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-75.57	—	—	—	permil	—	—	11-109	CAPA-10-27405	EES6
R-41	965.3	06/09/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.87	—	—	—	permil	—	—	10-3376	CAPA-10-17910	EES6
R-41	965.3	02/26/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.39	—	—	—	permil	—	—	10-2171	CAPA-10-12919	EES6
R-41	965.3	12/15/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.01	—	—	—	permil	—	—	10-949	CAPA-10-6818	EES6
R-41	965.3	04/21/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.55	—	—	—	permil	—	—	11-2146	CAPA-11-9357	EES6
R-41	965.3	10/08/10	WG	F	CS	FD	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.37	—	—	—	permil	—	—	11-109	CAPA-10-27403	EES6
R-41	965.3	10/08/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.54	—	—	—	permil	—	—	11-109	CAPA-10-27404	EES6
R-41	965.3	06/09/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.70	—	—	—	permil	—	—	10-3376	CAPA-10-17912	EES6
R-41	965.3	06/09/10	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.67	—	—	—	permil	—	—	10-3376	CAPA-10-17912	EES6
R-41	965.3	02/26/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.34	—	—	—	permil	—	—	10-2171	CAPA-10-12922	EES6
R-41	965.3	12/15/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.39	—	—	—	permil	—	—	10-949	CAPA-10-6817	EES6
R-41	965.3	04/21/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.32	—	—	—	permil	—	—	11-2146	CAPA-11-9358	EES6
R-41	965.3	10/08/10	WG	UF	CS	FD	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.95	—	—	—	permil	—	—	11-109	CAPA-10-27402	EES6
R-41	965.3	10/08/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.87	—	—	—	permil	—	—	11-109	CAPA-10-27405	EES6
R-41	965.3	06/09/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.05	—	—	—	permil	—	—	10-3376	CAPA-10-17910	EES6
R-41	965.3	06/09/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	—	—	—	permil	—	—	10-3376	CAPA-10-17910	EES6
R-41	965.3	02/26/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.07	—	—	—	permil	—	—	10-2171	CAPA-10-12919	EES6
R-41	965.3	12/15/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.51	—	—	—	permil	—	—	10-949	CAPA-10-6818	EES6
R-41	965.3	12/15/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.48	—	—	—	permil	—	—	10-949	CAPA-10-6818	EES6
R-41	965.3	06/09/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.06	—	—	—	permil	—	—	10-3376	CAPA-10-17912	EES6
R-41	965.3	06/09/10	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.92	—	—	—	permil	—	—	10-3376	CAPA-10-17912	EES6
R-41	965.3	12/15/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.74	—	—	—	permil	—	—	10-949	CAPA-10-6817	EES6
R-41	965.3	07/15/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.13	7.34E-01	2.46E+00	—	pCi/L	U	U	11-2878	CAPA-11-22904	ARSL
R-41	965.3	04/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.86	7.34E-01	2.49E+00	—	pCi/L	U	U	11-2197	CAPA-11-9358	ARSL
R-41	965.3	01/12/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.79	7.02E-01	2.08E+00	—	pCi/L	U	U	11-1122	CAPA-11-3032	ARSL
R-41	965.3	10/08/10	WG	UF	CS	FD	Rad	LLEE	Tritium	—	3.93	9.90E-01	2.52E+00	—	pCi/L	—	—	11-112	CAPA-10-27402	ARSL
R-41	965.3	10/08/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	6.26	1.25E+00	2.43E+00	—	pCi/L	—	—	11-112	CAPA-10-27405	ARSL
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.80	6.07E-01	2.08E+00	—	pCi/L	U	U	10-4110	CAPA-10-24131	ARSL
R-41	965.3	06/09/10	WG	UF	RE	FD	Rad	LLEE	Tritium	<	-0.32	6.07E-01	2.04E+00	—	pCi/L	U	U	10-3425	CAPA-10-17914	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-41	965.3	06/09/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.96	6.07E-01	2.11E+00	—	pCi/L	U	U	10-3425	CAPA-10-17910	ARSL
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.35	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2251	CAPA-10-12919	UMTL
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.13	2.87E-01	2.87E-01	—	pCi/L	U	U	10-954	CAPA-10-6818	UMTL
R-41	965.3	09/01/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.22	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3086	CAPA-09-12294	UMTL
R-41	965.3	04/02/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	09-1470	CAMO-09-6908	UMTL
R-49	845	05/02/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.41	—	—	—	permil	—	—	11-2261	CAPA-11-9366	EES6
R-49	845	10/07/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.55	—	—	—	permil	—	—	11-109	CAPA-10-27418	EES6
R-49	845	06/14/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.34	—	—	—	permil	—	—	10-3408	CAPA-10-17856	EES6
R-49	845	06/14/10	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.70	—	—	—	permil	—	—	10-3408	CAPA-10-17856	EES6
R-49	845	03/03/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.61	—	—	—	permil	—	—	10-2291	CAPA-10-12903	EES6
R-49	845	12/07/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.01	—	—	—	permil	—	—	10-847	CAPA-10-6813	EES6
R-49	845	05/02/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.73	—	—	—	permil	—	—	11-2261	CAPA-11-9367	EES6
R-49	845	10/07/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.34	—	—	—	permil	—	—	11-109	CAPA-10-27420	EES6
R-49	845	06/14/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.70	—	—	—	permil	—	—	10-3408	CAPA-10-17857	EES6
R-49	845	03/03/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.00	—	—	—	permil	—	—	10-2291	CAPA-10-12905	EES6
R-49	845	12/07/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.88	—	—	—	permil	—	—	10-847	CAPA-10-6812	EES6
R-49	845	05/02/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.12	—	—	—	permil	—	—	11-2261	CAPA-11-9366	EES6
R-49	845	10/07/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	—	—	—	permil	—	—	11-109	CAPA-10-27418	EES6
R-49	845	06/14/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.08	—	—	—	permil	—	—	10-3408	CAPA-10-17856	EES6
R-49	845	06/14/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.81	—	—	—	permil	—	—	10-3408	CAPA-10-17856	EES6
R-49	845	03/03/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.86	—	—	—	permil	—	—	10-2291	CAPA-10-12903	EES6
R-49	845	03/03/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	—	—	—	permil	—	—	10-2291	CAPA-10-12903	EES6
R-49	845	12/07/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.82	—	—	—	permil	—	—	10-847	CAPA-10-6813	EES6
R-49	845	12/07/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.51	—	—	—	permil	—	—	10-847	CAPA-10-6813	EES6
R-49	845	06/14/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.63	—	—	—	permil	—	—	10-3408	CAPA-10-17857	EES6
R-49	845	12/07/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.65	—	—	—	permil	—	—	10-847	CAPA-10-6812	EES6
R-49	845	06/23/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	3.50	—	—	—	permil	—	—	09-2480	CAMO-09-10842	EES6
R-49	845	06/23/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	2.65	—	—	—	permil	—	—	09-2480	CAMO-09-10842	EES6
R-49	845	07/08/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.19	7.02E-01	2.36E+00	—	pCi/L	U	U	11-2800	CAPA-11-22697	ARSL
R-49	845	05/02/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.13	7.34E-01	2.46E+00	—	pCi/L	U	U	11-2264	CAPA-11-9366	ARSL
R-49	845	01/19/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.26	7.98E-01	2.71E+00	—	pCi/L	U	U	11-1211	CAPA-11-3036	ARSL
R-49	845	10/07/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	3.38	9.58E-01	2.59E+00	—	pCi/L	—	—	11-112	CAPA-10-27418	ARSL
R-49	845	07/29/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-1.44	4.79E-01	1.47E+00	—	pCi/L	U	U	10-3986	CAPA-10-24650	ARSL
R-49	845	06/14/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-1.15	6.39E-01	2.08E+00	—	pCi/L	U	U	10-3425	CAPA-10-17856	ARSL
R-49	845	03/03/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.06	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2383	CAPA-10-12903	UMTL
R-49	845	12/07/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.10	2.87E-01	2.87E-01	—	pCi/L	U	U	10-845	CAPA-10-6813	UMTL
R-49	845	09/01/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.22	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3086	CAPA-09-12297	UMTL
R-49	845	06/23/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.13	2.87E-01	2.87E-01	—	pCi/L	U	U	09-2485	CAMO-09-10840	UMTL
R-49	905.6	04/29/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.09	—	—	—	permil	—	—	11-2247	CAPA-11-9378	EES6
R-49	905.6	10/07/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.44	—	—	—	permil	—	—	11-109	CAPA-10-27423	EES6
R-49	905.6	06/09/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.03	—	—	—	permil	—	—	10-3376	CAPA-10-17898	EES6
R-49	905.6	03/05/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.81	—	—	—	permil	—	—	10-2332	CAPA-10-12909	EES6
R-49	905.6	12/09/09	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.11	—	—	—	permil	—	—	10-865	CAPA-10-6816	EES6
R-49	905.6	04/29/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.10	—	—	—	permil	—	—	11-2247	CAPA-11-9377	EES6
R-49	905.6	10/07/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.63	—	—	—	permil	—	—	11-109	CAPA-10-27422	EES6
R-49	905.6	10/07/10	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.38	—	—	—	permil	—	—	11-109	CAPA-10-27422	EES6
R-49	905.6	06/09/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.31	—	—	—	permil	—	—	10-3376	CAPA-10-17899	EES6
R-49	905.6	06/09/10	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.53	—	—	—	permil	—	—	10-3376	CAPA-10-17899	EES6
R-49	905.6	03/05/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.71	—	—	—	permil	—	—	10-2332	CAPA-10-12907	EES6
R-49	905.6	12/09/09	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.74	—	—	—	permil	—	—	10-865	CAPA-10-6815	EES6

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-49	905.6	04/29/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.19	—	—	—	permil	—	—	11-2247	CAPA-11-9378	EES6
R-49	905.6	10/07/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.19	—	—	—	permil	—	—	11-109	CAPA-10-27423	EES6
R-49	905.6	06/09/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.99	—	—	—	permil	—	—	10-3376	CAPA-10-17898	EES6
R-49	905.6	06/09/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.21	—	—	—	permil	—	—	10-3376	CAPA-10-17898	EES6
R-49	905.6	03/05/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.15	—	—	—	permil	—	—	10-2332	CAPA-10-12909	EES6
R-49	905.6	03/05/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.25	—	—	—	permil	—	—	10-2332	CAPA-10-12909	EES6
R-49	905.6	12/09/09	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.87	—	—	—	permil	—	—	10-865	CAPA-10-6816	EES6
R-49	905.6	12/09/09	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.77	—	—	—	permil	—	—	10-865	CAPA-10-6816	EES6
R-49	905.6	06/09/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.62	—	—	—	permil	—	—	10-3376	CAPA-10-17899	EES6
R-49	905.6	06/09/10	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.13	—	—	—	permil	—	—	10-3376	CAPA-10-17899	EES6
R-49	905.6	12/09/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.48	—	—	—	permil	—	—	10-865	CAPA-10-6815	EES6
R-49	905.6	06/18/09	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.41	—	—	—	permil	—	—	09-2378	CAMO-09-10516	EES6
R-49	905.6	06/18/09	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.35	—	—	—	permil	—	—	09-2378	CAMO-09-10516	EES6
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.48	6.39E-01	2.20E+00	—	pCi/L	U	U	11-2942	CAPA-11-22909	ARSL
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.08	7.98E-01	2.65E+00	—	pCi/L	U	U	11-2264	CAPA-11-9378	ARSL
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.44	7.02E-01	2.24E+00	—	pCi/L	U	U	11-112	CAPA-10-27423	ARSL
R-49	905.6	07/29/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-2.71	7.66E-01	2.33E+00	—	pCi/L	U	U	10-3986	CAPA-10-24139	ARSL
R-49	905.6	06/09/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.89	5.75E-01	1.95E+00	—	pCi/L	U	U	10-3425	CAPA-10-17898	ARSL
R-49	905.6	03/05/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.13	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2383	CAPA-10-12909	UMTL
R-49	905.6	12/09/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.22	2.87E-01	2.87E-01	—	pCi/L	U	U	10-870	CAPA-10-6816	UMTL
R-49	905.6	09/01/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.22	2.87E-01	2.87E-01	—	pCi/L	U	U	09-3086	CAPA-09-12300	UMTL
R-49	905.6	06/18/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.26	2.87E-01	2.87E-01	—	pCi/L	U	U	09-2462	CAMO-09-10515	UMTL
R-51	914.96	05/09/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.36	—	—	—	permil	—	—	11-2358	CAPA-11-9405	EES6
R-51	914.96	10/19/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.09	—	—	—	permil	—	—	11-202	CAPA-10-27437	EES6
R-51	914.96	07/26/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.55	—	—	—	permil	—	—	10-3835	CAPA-10-24156	EES6
R-51	914.96	06/18/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.34	—	—	—	permil	—	—	10-3462	CAPA-10-19017	EES6
R-51	914.96	03/08/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.08	—	—	—	permil	—	—	10-2362	CAPA-10-13494	EES6
R-51	914.96	03/08/10	WG	UF	DUP	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.92	—	—	—	permil	—	—	10-2362	CAPA-10-13494	EES6
R-51	914.96	05/09/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.74	—	—	—	permil	—	—	11-2358	CAPA-11-9404	EES6
R-51	914.96	10/19/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.62	—	—	—	permil	—	—	11-202	CAPA-10-27439	EES6
R-51	914.96	07/26/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.39	—	—	—	permil	—	—	10-3835	CAPA-10-24154	EES6
R-51	914.96	06/18/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.61	—	—	—	permil	—	—	10-3462	CAPA-10-19015	EES6
R-51	914.96	03/08/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.24	—	—	—	permil	—	—	10-2362	CAPA-10-13495	EES6
R-51	914.96	05/09/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.06	—	—	—	permil	—	—	11-2358	CAPA-11-9405	EES6
R-51	914.96	10/19/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.27	—	—	—	permil	—	—	11-202	CAPA-10-27437	EES6
R-51	914.96	07/26/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.22	—	—	—	permil	—	—	10-3835	CAPA-10-24156	EES6
R-51	914.96	06/18/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	—	—	—	permil	—	—	10-3462	CAPA-10-19017	EES6
R-51	914.96	03/08/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.91	—	—	—	permil	—	—	10-2362	CAPA-10-13494	EES6
R-51	914.96	03/08/10	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.55	—	—	—	permil	—	—	10-2362	CAPA-10-13494	EES6
R-51	914.96	07/26/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.74	—	—	—	permil	—	—	10-3835	CAPA-10-24154	EES6
R-51	914.96	06/18/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.98	—	—	—	permil	—	—	10-3462	CAPA-10-19015	EES6
R-51	914.96	07/28/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-1.09	6.71E-01	2.30E+00	—	pCi/L	U	U	11-3020	CAPA-11-22913	ARSL
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.66	7.02E-01	2.36E+00	—	pCi/L	U	U	11-3020	CAPA-11-22912	ARSL
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.21	7.66E-01	2.39E+00	—	pCi/L	U	U	11-2438	CAPA-11-9405	ARSL
R-51	914.96	01/11/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.37	7.02E-01	2.24E+00	—	pCi/L	U	U	11-1122	CAPA-11-3043	ARSL
R-51	914.96	10/19/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.29	6.07E-01	2.08E+00	—	pCi/L	U	U	11-304	CAPA-10-27437	ARSL
R-51	914.96	07/26/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.45	7.98E-01	2.20E+00	—	pCi/L	U	U	10-3852	CAPA-10-24156	ARSL
R-51	914.96	06/18/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.00	6.07E-01	2.04E+00	—	pCi/L	U	U	10-3479	CAPA-10-19017	ARSL
R-51	914.96	03/08/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.03	2.87E-01	2.87E-01	—	pCi/L	U	U	10-2384	CAPA-10-13494	UMTL
R-51	1030.96	05/09/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.66	—	—	—	permil	—	—	11-2358	CAPA-11-9446	EES6

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-51	1030.96	10/19/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.52	—	—	—	permil	—	—	11-202	CAPA-10-27440	EES6
R-51	1030.96	07/26/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.57	—	—	—	permil	—	—	10-3835	CAPA-10-24158	EES6
R-51	1030.96	06/18/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.12	—	—	—	permil	—	—	10-3462	CAPA-10-19021	EES6
R-51	1030.96	02/22/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.02	—	—	—	permil	—	—	10-2002	CAPA-10-13498	EES6
R-51	1030.96	05/09/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.22	—	—	—	permil	—	—	11-2358	CAPA-11-9445	EES6
R-51	1030.96	10/19/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	1.17	—	—	—	permil	—	—	11-202	CAPA-10-27441	EES6
R-51	1030.96	07/26/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	2.78	—	—	—	permil	—	—	10-3835	CAPA-10-24159	EES6
R-51	1030.96	06/18/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.62	—	—	—	permil	—	—	10-3462	CAPA-10-19019	EES6
R-51	1030.96	02/22/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.66	—	—	—	permil	—	—	10-2002	CAPA-10-13497	EES6
R-51	1030.96	05/09/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.21	—	—	—	permil	—	—	11-2358	CAPA-11-9446	EES6
R-51	1030.96	10/19/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.36	—	—	—	permil	—	—	11-202	CAPA-10-27440	EES6
R-51	1030.96	07/26/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.30	—	—	—	permil	—	—	10-3835	CAPA-10-24158	EES6
R-51	1030.96	06/18/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.26	—	—	—	permil	—	—	10-3462	CAPA-10-19021	EES6
R-51	1030.96	02/22/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.07	—	—	—	permil	—	—	10-2002	CAPA-10-13498	EES6
R-51	1030.96	07/26/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-6.52	—	—	—	permil	—	—	10-3835	CAPA-10-24159	EES6
R-51	1030.96	06/18/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.78	—	—	—	permil	—	—	10-3462	CAPA-10-19019	EES6
R-51	1030.96	02/22/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.18	—	—	—	permil	—	—	10-2002	CAPA-10-13497	EES6
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.79	7.02E-01	2.27E+00	—	pCi/L	U	U	11-3020	CAPA-11-22928	ARSL
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.63	7.02E-01	2.14E+00	—	pCi/L	U	U	11-2438	CAPA-11-9446	ARSL
R-51	1030.96	01/11/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.88	7.98E-01	2.39E+00	—	pCi/L	U	U	11-1122	CAPA-11-3045	ARSL
R-51	1030.96	10/19/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.22	7.98E-01	2.68E+00	—	pCi/L	U	U	11-304	CAPA-10-27440	ARSL
R-51	1030.96	07/26/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.19	6.39E-01	1.53E+00	—	pCi/L	U	U	10-3852	CAPA-10-24158	ARSL
R-51	1030.96	06/18/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.57	8.30E-01	2.39E+00	—	pCi/L	U	U	10-3479	CAPA-10-19021	ARSL
R-51	1030.96	02/22/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.22	6.39E-02	2.87E-01	—	pCi/L	U	U	10-2060	CAPA-10-13498	UMTL
R-52	1035.2	05/04/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.36	—	—	—	permil	—	—	11-2296	CAPA-11-9464	EES6
R-52	1035.2	01/13/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.29	—	—	—	permil	—	—	11-1092	CAPA-11-3082	EES6
R-52	1035.2	10/12/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.82	—	—	—	permil	—	—	11-124	CAPA-10-27451	EES6
R-52	1035.2	08/05/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.14	—	—	—	permil	—	—	10-4012	CAPA-10-24167	EES6
R-52	1035.2	05/02/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.02	—	—	—	permil	—	—	10-2995	CAPA-10-16633	EES6
R-52	1035.2	05/04/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.20	—	—	—	permil	—	—	11-2296	CAPA-11-9463	EES6
R-52	1035.2	01/13/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.49	—	—	—	permil	—	—	11-1092	CAPA-11-3081	EES6
R-52	1035.2	10/12/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.49	—	—	—	permil	—	—	11-124	CAPA-10-27450	EES6
R-52	1035.2	08/05/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.05	—	—	—	permil	—	—	10-4012	CAPA-10-24166	EES6
R-52	1035.2	05/02/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.75	—	—	—	permil	—	—	10-2995	CAPA-10-16634	EES6
R-52	1035.2	05/04/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	—	—	—	permil	—	—	11-2296	CAPA-11-9464	EES6
R-52	1035.2	01/13/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.76	—	—	—	permil	—	—	11-1092	CAPA-11-3082	EES6
R-52	1035.2	10/12/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.91	—	—	—	permil	—	—	11-124	CAPA-10-27451	EES6
R-52	1035.2	08/05/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.99	—	—	—	permil	—	—	10-4012	CAPA-10-24167	EES6
R-52	1035.2	05/02/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.73	—	—	—	permil	—	—	10-2995	CAPA-10-16633	EES6
R-52	1035.2	08/05/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.64	—	—	—	permil	—	—	10-4012	CAPA-10-24166	EES6
R-52	1035.2	05/02/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.66	—	—	—	permil	—	—	10-2995	CAPA-10-16634	EES6
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.61	7.98E-01	2.62E+00	—	pCi/L	U	U	11-2878	CAPA-11-22933	ARSL
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.05	6.71E-01	2.11E+00	—	pCi/L	U	U	11-2438	CAPA-11-9464	ARSL
R-52	1035.2	01/13/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	5.97	1.15E+00	2.14E+00	—	pCi/L	—	—	11-1122	CAPA-11-3082	ARSL
R-52	1035.2	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.12	7.02E-01	2.24E+00	—	pCi/L	U	U	11-195	CAPA-10-27451	ARSL
R-52	1035.2	08/05/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.22	7.02E-01	2.39E+00	—	pCi/L	U	U	10-4110	CAPA-10-24167	ARSL
R-52	1035.2	05/02/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.03	8.62E-01	2.87E+00	—	pCi/L	U	U	10-3041	CAPA-10-16633	ARSL
R-52	1107	05/04/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.47	—	—	—	permil	—	—	11-2296	CAPA-11-9475	EES6
R-52	1107	01/13/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.21	—	—	—	permil	—	—	11-1092	CAPA-11-3084	EES6
R-52	1107	10/12/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.65	—	—	—	permil	—	—	11-124	CAPA-10-27453	EES6

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-52	1107	08/05/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.46	—	—	—	permil	—	—	10-4012	CAPA-10-24658	EES6
R-52	1107	04/23/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.37	—	—	—	permil	—	—	10-2886	CAPA-10-16638	EES6
R-52	1107	05/04/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.12	—	—	—	permil	—	—	11-2296	CAPA-11-9477	EES6
R-52	1107	01/13/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.88	—	—	—	permil	—	—	11-1092	CAPA-11-3086	EES6
R-52	1107	10/12/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.00	—	—	—	permil	—	—	11-124	CAPA-10-27454	EES6
R-52	1107	08/05/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.61	—	—	—	permil	—	—	10-4012	CAPA-10-24660	EES6
R-52	1107	04/23/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.49	—	—	—	permil	—	—	10-2886	CAPA-10-16639	EES6
R-52	1107	05/04/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.34	—	—	—	permil	—	—	11-2296	CAPA-11-9475	EES6
R-52	1107	01/13/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.81	—	—	—	permil	—	—	11-1092	CAPA-11-3084	EES6
R-52	1107	10/12/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.80	—	—	—	permil	—	—	11-124	CAPA-10-27453	EES6
R-52	1107	08/05/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.99	—	—	—	permil	—	—	10-4012	CAPA-10-24658	EES6
R-52	1107	04/23/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.53	—	—	—	permil	—	—	10-2886	CAPA-10-16638	EES6
R-52	1107	08/05/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-5.00	—	—	—	permil	—	—	10-4012	CAPA-10-24660	EES6
R-52	1107	04/23/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.49	—	—	—	permil	—	—	10-2886	CAPA-10-16639	EES6
R-52	1107	07/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.35	7.02E-01	2.36E+00	—	pCi/L	U	U	11-2878	CAPA-11-22936	ARSL
R-52	1107	05/04/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.09	6.71E-01	2.30E+00	—	pCi/L	U	U	11-2438	CAPA-11-9475	ARSL
R-52	1107	01/13/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.69	6.71E-01	1.95E+00	—	pCi/L	U	U	11-1122	CAPA-11-3084	ARSL
R-52	1107	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	2.78	7.34E-01	1.85E+00	—	pCi/L	—	U	11-195	CAPA-10-27453	ARSL
R-52	1107	08/05/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.16	4.79E-01	1.63E+00	—	pCi/L	U	U	10-4110	CAPA-10-24658	ARSL
R-52	1107	04/23/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.20	9.15E-01	2.47E+00	—	pCi/L	—	R	10-2948	CAPA-10-16638	ARSL
R-53	849.2	07/26/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.35	—	—	—	permil	—	—	10-3841	CAPA-10-24175	EES6
R-53	849.2	04/19/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.16	—	—	—	permil	—	—	10-2821	CAPA-10-15929	EES6
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.38	7.02E-01	2.36E+00	—	pCi/L	U	U	11-2878	CAPA-11-22939	ARSL
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.57	4.47E-01	1.50E+00	—	pCi/L	U	U	11-2438	CAPA-11-9483	ARSL
R-53	849.2	01/14/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	8.97	1.53E+00	2.17E+00	—	pCi/L	—	—	11-1122	CAPA-11-3089	ARSL
R-53	849.2	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	4.28	9.58E-01	2.17E+00	—	pCi/L	—	U	11-195	CAPA-10-27456	ARSL
R-53	849.2	07/26/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.74	8.62E-01	2.39E+00	—	pCi/L	U	U	10-3852	CAPA-10-24174	ARSL
R-53	849.2	04/19/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.54	7.34E-01	2.52E+00	—	pCi/L	U	R	10-2849	CAPA-10-15928	ARSL
R-53	959.7	07/26/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-5.03	—	—	—	permil	—	—	10-3841	CAPA-10-24180	EES6
R-53	959.7	07/26/10	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.78	—	—	—	permil	—	—	10-3841	CAPA-10-24180	EES6
R-53	959.7	04/14/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.44	—	—	—	permil	—	—	10-2747	CAPA-10-15924	EES6
R-53	959.7	07/14/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-1.66	8.94E-01	3.00E+00	—	pCi/L	U	U	11-2878	CAPA-11-22945	ARSL
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.83	6.39E-01	2.14E+00	—	pCi/L	U	U	11-2878	CAPA-11-22941	ARSL
R-53	959.7	05/06/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.42	2.55E-01	8.30E-01	—	pCi/L	U	U	11-2438	CAPA-11-9494	ARSL
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.05	7.34E-01	2.52E+00	—	pCi/L	U	U	11-2438	CAPA-11-9491	ARSL
R-53	959.7	01/13/11	WG	UF	RE	FD	Rad	LLEE	Tritium	<	1.47	6.39E-01	1.88E+00	—	pCi/L	U	U	11-1122	CAPA-11-3094	ARSL
R-53	959.7	01/13/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.96	6.71E-01	2.20E+00	—	pCi/L	U	U	11-1122	CAPA-11-3092	ARSL
R-53	959.7	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	3.93	8.94E-01	2.11E+00	—	pCi/L	—	U	11-195	CAPA-10-27464	ARSL
R-53	959.7	07/26/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-4.15	8.94E-01	2.30E+00	—	pCi/L	U	U	10-3852	CAPA-10-24179	ARSL
R-53	959.7	04/14/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.33	3.19E+00	1.79E+00	—	pCi/L	U	R	10-2751	CAPA-10-15923	ARSL
R-54	830	07/12/11	WG	F	RE	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.197	—	—	1.00E-02	mg/L	H	J-	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.332	—	—	5.00E-02	mg/L	—	J-	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.259	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.279	—	—	5.00E-02	mg/L	—	J	11-142	CAPA-10-27445	GELC
R-54	830	07/27/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.215	—	—	5.00E-02	mg/L	J	J	10-3860	CAPA-10-24161	GELC
R-54	830	05/04/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.52	—	—	—	permil	—	—	11-2302	CAPA-11-9499	EES6
R-54	830	10/13/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.27	—	—	—	permil	—	—	11-139	CAPA-10-27444	EES6
R-54	830	07/27/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-80.65	—	—	—	permil	—	—	10-3856	CAPA-10-24160	EES6
R-54	830	06/18/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.81	—	—	—	permil	—	—	10-3462	CAPA-10-18473	EES6
R-54	830	02/15/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.37	—	—	—	permil	—	—	10-1883	CAPA-10-12691	EES6

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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-54	830	05/04/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.56	—	—	—	permil	—	—	11-2302	CAPA-11-9497	EES6
R-54	830	10/13/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.41	—	—	—	permil	—	—	11-139	CAPA-10-27445	EES6
R-54	830	07/27/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	11.96	—	—	—	permil	—	—	10-3856	CAPA-10-24161	EES6
R-54	830	06/18/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.93	—	—	—	permil	—	—	10-3462	CAPA-10-18475	EES6
R-54	830	05/04/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.21	—	—	—	permil	—	—	11-2302	CAPA-11-9499	EES6
R-54	830	10/13/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.33	—	—	—	permil	—	—	11-139	CAPA-10-27444	EES6
R-54	830	07/27/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.18	—	—	—	permil	—	—	10-3856	CAPA-10-24160	EES6
R-54	830	06/18/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.10	—	—	—	permil	—	—	10-3462	CAPA-10-18473	EES6
R-54	830	02/15/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.04	—	—	—	permil	—	—	10-1883	CAPA-10-12691	EES6
R-54	830	07/27/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	6.03	—	—	—	permil	—	—	10-3856	CAPA-10-24161	EES6
R-54	830	06/18/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-6.23	—	—	—	permil	—	—	10-3462	CAPA-10-18475	EES6
R-54	830	07/12/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.50	7.34E-01	2.52E+00	—	pCi/L	U	U	11-2800	CAPA-11-22972	ARSL
R-54	830	05/04/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.42	6.39E-01	2.20E+00	—	pCi/L	U	U	11-2438	CAPA-11-9499	ARSL
R-54	830	01/14/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.83	7.02E-01	2.30E+00	—	pCi/L	U	U	11-1122	CAPA-11-3047	ARSL
R-54	830	10/13/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	2.36	8.62E-01	2.59E+00	—	pCi/L	U	U	11-195	CAPA-10-27444	ARSL
R-54	830	07/27/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-6.80	1.34E+00	3.26E+00	—	pCi/L	U	U	10-3852	CAPA-10-24160	ARSL
R-54	830	06/18/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.29	6.71E-01	1.92E+00	—	pCi/L	U	U	10-3479	CAPA-10-18473	ARSL
R-54	830	02/15/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.10	2.87E-01	2.87E-01	—	pCi/L	U	U	10-1904	CAPA-10-12691	UMTL
R-54	915	05/05/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.13	—	—	—	permil	—	—	11-2327	CAPA-11-9500	EES6
R-54	915	10/13/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.41	—	—	—	permil	—	—	11-139	CAPA-10-27446	EES6
R-54	915	07/27/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-81.87	—	—	—	permil	—	—	10-3856	CAPA-10-24165	EES6
R-54	915	06/18/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.69	—	—	—	permil	—	—	10-3462	CAPA-10-18479	EES6
R-54	915	02/21/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.34	—	—	—	permil	—	—	10-1997	CAPA-10-13095	EES6
R-54	915	05/05/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	1.83	—	—	—	permil	—	—	11-2327	CAPA-11-9501	EES6
R-54	915	10/13/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.19	—	—	—	permil	—	—	11-139	CAPA-10-27448	EES6
R-54	915	07/27/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.53	—	—	—	permil	—	—	10-3856	CAPA-10-24164	EES6
R-54	915	07/27/10	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.32	—	—	—	permil	—	—	10-3856	CAPA-10-24164	EES6
R-54	915	06/18/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.84	—	—	—	permil	—	—	10-3462	CAPA-10-18477	EES6
R-54	915	02/21/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.47	—	—	—	permil	—	—	10-1997	CAPA-10-13094	EES6
R-54	915	05/05/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.22	—	—	—	permil	—	—	11-2327	CAPA-11-9500	EES6
R-54	915	10/13/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.28	—	—	—	permil	—	—	11-139	CAPA-10-27446	EES6
R-54	915	07/27/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.33	—	—	—	permil	—	—	10-3856	CAPA-10-24165	EES6
R-54	915	06/18/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.25	—	—	—	permil	—	—	10-3462	CAPA-10-18479	EES6
R-54	915	02/21/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.25	—	—	—	permil	—	—	10-1997	CAPA-10-13095	EES6
R-54	915	07/27/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.58	—	—	—	permil	—	—	10-3856	CAPA-10-24164	EES6
R-54	915	07/27/10	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.64	—	—	—	permil	—	—	10-3856	CAPA-10-24164	EES6
R-54	915	06/18/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.47	—	—	—	permil	—	—	10-3462	CAPA-10-18477	EES6
R-54	915	02/21/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.69	—	—	—	permil	—	—	10-1997	CAPA-10-13094	EES6
R-54	915	07/12/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.13	7.34E-01	2.52E+00	—	pCi/L	U	U	11-2800	CAPA-11-22976	ARSL
R-54	915	05/05/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.61	6.71E-01	2.27E+00	—	pCi/L	U	U	11-2438	CAPA-11-9500	ARSL
R-54	915	01/12/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.89	7.98E-01	2.65E+00	—	pCi/L	U	U	11-1122	CAPA-11-3050	ARSL
R-54	915	10/13/10	WG	UF	DUP	—	Rad	LLEE	Tritium	<	3.29	9.90E-01	2.75E+00	—	pCi/L	—	R	11-195	CAPA-10-27446	ARSL
R-54	915	10/13/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	4.57	8.94E-01	1.76E+00	—	pCi/L	—	U	11-195	CAPA-10-27446	ARSL
R-54	915	07/27/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.16	7.34E-01	2.01E+00	—	pCi/L	U	U	10-3852	CAPA-10-24165	ARSL
R-54	915	06/18/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.54	6.07E-01	2.01E+00	—	pCi/L	U	U	10-3479	CAPA-10-18479	ARSL
R-54	915	02/21/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.06	9.58E-02	2.87E-01	—	pCi/L	U	U	10-2061	CAPA-10-13095	UMTL
R-55	860	07/15/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-75.42	—	—	—	permil	—	—	11-2848	CAPA-11-23022	EES6
R-55	860	04/28/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.31	—	—	—	permil	—	—	11-2247	CAPA-11-9505	EES6
R-55	860	02/07/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.27	—	—	—	permil	—	—	11-1291	CAPA-11-4718	EES6
R-55	860	09/09/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-72.33	—	—	—	permil	—	—	10-4495	CAPA-10-26320	EES6



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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-55	860	07/15/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.09	—	—	—	permil	—	—	11-2848	CAPA-11-23021	EES6
R-55	860	04/28/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	2.25	—	—	—	permil	—	—	11-2247	CAPA-11-9503	EES6
R-55	860	02/07/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.94	—	—	—	permil	—	—	11-1291	CAPA-11-4719	EES6
R-55	860	09/09/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.87	—	—	—	permil	—	—	10-4495	CAPA-10-26321	EES6
R-55	860	07/15/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.73	—	—	—	permil	—	—	11-2848	CAPA-11-23022	EES6
R-55	860	04/28/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.01	—	—	—	permil	—	—	11-2247	CAPA-11-9505	EES6
R-55	860	02/07/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.62	—	—	—	permil	—	—	11-1291	CAPA-11-4718	EES6
R-55	860	02/07/11	WG	UF	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.78	—	—	—	permil	—	—	11-1291	CAPA-11-4718	EES6
R-55	860	09/09/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-9.17	—	—	—	permil	—	—	10-4495	CAPA-10-26320	EES6
R-55	860	07/15/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.42	6.71E-01	2.27E+00	—	pCi/L	U	U	11-2878	CAPA-11-23022	ARSL
R-55	860	04/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.09	7.66E-01	2.68E+00	—	pCi/L	U	U	11-2264	CAPA-11-9505	ARSL
R-55	860	02/07/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.26	4.79E-01	1.66E+00	—	pCi/L	U	U	11-1308	CAPA-11-4718	ARSL
R-55	860	09/09/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	4.25	1.15E+00	3.03E+00	—	pCi/L	—	R	10-4603	CAPA-10-26320	ARSL
R-55	994.4	07/14/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.02	—	—	—	permil	—	—	11-2840	CAPA-11-23024	EES6
R-55	994.4	04/28/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.26	—	—	—	permil	—	—	11-2247	CAPA-11-9508	EES6
R-55	994.4	02/01/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.04	—	—	—	permil	—	—	11-1267	CAPA-11-4726	EES6
R-55	994.4	09/14/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.54	—	—	—	permil	—	—	10-4564	CAPA-10-26324	EES6
R-55	994.4	07/14/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	6.16	—	—	—	permil	—	—	11-2840	CAPA-11-23026	EES6
R-55	994.4	04/28/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.95	—	—	—	permil	—	—	11-2247	CAPA-11-9507	EES6
R-55	994.4	02/01/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.97	—	—	—	permil	—	—	11-1267	CAPA-11-4729	EES6
R-55	994.4	09/14/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.47	—	—	—	permil	—	—	10-4564	CAPA-10-26323	EES6
R-55	994.4	07/14/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.72	—	—	—	permil	—	—	11-2840	CAPA-11-23024	EES6
R-55	994.4	04/28/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.06	—	—	—	permil	—	—	11-2247	CAPA-11-9508	EES6
R-55	994.4	02/01/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.71	—	—	—	permil	—	—	11-1267	CAPA-11-4726	EES6
R-55	994.4	09/14/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.63	—	—	—	permil	—	—	10-4564	CAPA-10-26324	EES6
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.54	6.39E-01	2.14E+00	—	pCi/L	U	U	11-2878	CAPA-11-23024	ARSL
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.86	6.71E-01	2.27E+00	—	pCi/L	U	U	11-2264	CAPA-11-9508	ARSL
R-55	994.4	02/01/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.80	4.79E-01	1.60E+00	—	pCi/L	U	U	11-1270	CAPA-11-4726	ARSL
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.10	8.30E-01	2.20E+00	—	pCi/L	—	R	10-4603	CAPA-10-26324	ARSL
R-55i	510	07/18/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-76.58	—	—	—	permil	—	—	11-2859	CAPA-11-22978	EES6
R-55i	510	03/23/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.91	—	—	—	permil	—	—	11-1746	CAPA-11-4734	EES6
R-55i	510	07/18/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	7.40	—	—	—	permil	—	—	11-2859	CAPA-11-22979	EES6
R-55i	510	03/23/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	7.17	—	—	—	permil	—	—	11-1746	CAPA-11-4735	EES6
R-55i	510	07/18/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.16	—	—	—	permil	—	—	11-2859	CAPA-11-22978	EES6
R-55i	510	03/23/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.19	—	—	—	permil	—	—	11-1746	CAPA-11-4734	EES6
R-55i	510	07/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.34	8.94E-01	3.00E+00	—	pCi/L	U	U	11-2878	CAPA-11-22978	ARSL
R-55i	510	05/10/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.42	6.39E-01	2.20E+00	—	pCi/L	U	U	11-2438	CAPA-11-10606	ARSL
R-55i	510	03/23/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.92	7.34E-01	2.49E+00	—	pCi/L	U	R	11-1843	CAPA-11-4734	ARSL
R-56	945	05/10/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.23	—	—	—	permil	—	—	11-2388	CAPA-11-9510	EES6
R-56	945	02/03/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.71	—	—	—	permil	—	—	11-1277	CAPA-11-4722	EES6
R-56	945	08/19/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.11	—	—	—	permil	—	—	10-4229	CAPA-10-24868	EES6
R-56	945	05/10/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.05	—	—	—	permil	—	—	11-2388	CAPA-11-9511	EES6
R-56	945	02/03/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.73	—	—	—	permil	—	—	11-1277	CAPA-11-4723	EES6
R-56	945	08/19/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.30	—	—	—	permil	—	—	10-4229	CAPA-10-24869	EES6
R-56	945	05/10/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.86	—	—	—	permil	—	—	11-2388	CAPA-11-9510	EES6
R-56	945	02/03/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	—	—	—	permil	—	—	11-1277	CAPA-11-4722	EES6
R-56	945	08/19/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.24	—	—	—	permil	—	—	10-4229	CAPA-10-24868	EES6
R-56	945	08/19/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.37	—	—	—	permil	—	—	10-4229	CAPA-10-24869	EES6
R-56	945	07/20/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.45	5.75E-01	1.98E+00	—	pCi/L	U	U	11-2942	CAPA-11-23029	ARSL
R-56	945	05/10/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.56	7.34E-01	2.46E+00	—	pCi/L	U	U	11-2438	CAPA-11-9510	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-56	945	02/03/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.81	6.71E-01	1.56E+00	—	pCi/L	—	R	11-1307	CAPA-11-4722	ARSL
R-56	945	02/03/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	2.04	5.75E-01	1.50E+00	—	pCi/L	—	—	11-1307	CAPA-11-4722	ARSL
R-56	945	08/19/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.35	7.66E-01	1.82E+00	—	pCi/L	—	R	10-4353	CAPA-10-24868	ARSL
R-56	945	08/19/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.40	6.07E-01	1.82E+00	—	pCi/L	U	U	10-4353	CAPA-10-24868	ARSL
R-56	1046.6	05/10/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-78.64	—	—	—	permil	—	—	11-2388	CAPA-11-9514	EES6
R-56	1046.6	02/07/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-79.43	—	—	—	permil	—	—	11-1286	CAPA-11-4731	EES6
R-56	1046.6	08/13/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.75	—	—	—	permil	—	—	10-4165	CAPA-10-24872	EES6
R-56	1046.6	05/10/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.09	—	—	—	permil	—	—	11-2388	CAPA-11-9513	EES6
R-56	1046.6	02/07/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.38	—	—	—	permil	—	—	11-1286	CAPA-11-4730	EES6
R-56	1046.6	08/13/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.94	—	—	—	permil	—	—	10-4165	CAPA-10-24871	EES6
R-56	1046.6	05/10/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.22	—	—	—	permil	—	—	11-2388	CAPA-11-9514	EES6
R-56	1046.6	02/07/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.10	—	—	—	permil	—	—	11-1286	CAPA-11-4731	EES6
R-56	1046.6	08/13/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.14	—	—	—	permil	—	—	10-4165	CAPA-10-24872	EES6
R-56	1046.6	08/13/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-2.71	—	—	—	permil	—	—	10-4165	CAPA-10-24871	EES6
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.03	6.39E-01	2.20E+00	—	pCi/L	U	U	11-2942	CAPA-11-23032	ARSL
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.26	7.02E-01	2.43E+00	—	pCi/L	U	U	11-2438	CAPA-11-9514	ARSL
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.36	6.07E-01	1.85E+00	—	pCi/L	U	R	11-1307	CAPA-11-4731	ARSL
R-56	1046.6	02/07/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.29	5.11E-01	1.76E+00	—	pCi/L	U	U	11-1307	CAPA-11-4731	ARSL
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.45	7.98E-01	1.88E+00	—	pCi/L	—	R	10-4209	CAPA-10-24872	ARSL
R-56	1046.6	08/13/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.96	5.75E-01	1.88E+00	—	pCi/L	U	U	10-4209	CAPA-10-24872	ARSL
R-57	910	05/09/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.25	—	—	—	permil	—	—	11-2364	CAPA-11-9515	EES6
R-57	910	07/01/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.72	—	—	—	permil	—	—	10-3532	CAPA-10-22387	EES6
R-57	910	05/09/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	3.17	—	—	—	permil	—	—	11-2364	CAPA-11-9517	EES6
R-57	910	07/01/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.19	—	—	—	permil	—	—	10-3532	CAPA-10-22388	EES6
R-57	910	05/09/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.01	—	—	—	permil	—	—	11-2364	CAPA-11-9515	EES6
R-57	910	07/01/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-10.89	—	—	—	permil	—	—	10-3532	CAPA-10-22387	EES6
R-57	910	07/01/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-4.89	—	—	—	permil	—	—	10-3532	CAPA-10-22388	EES6
R-57	910	07/13/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.09	6.07E-01	2.01E+00	—	pCi/L	U	U	11-2878	CAPA-11-23035	ARSL
R-57	910	05/09/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.83	8.62E-01	2.94E+00	—	pCi/L	U	U	11-2438	CAPA-11-9515	ARSL
R-57	910	07/01/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.42	7.34E-01	1.88E+00	—	pCi/L	U	U	10-3596	CAPA-10-22387	ARSL
R-57	971.5	05/09/11	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.29	—	—	—	permil	—	—	11-2364	CAPA-11-9518	EES6
R-57	971.5	06/25/10	WG	UF	CS	—	Isotope	Deuterium Ratio	Deuterium Ratio	—	-77.12	—	—	—	permil	—	—	10-3499	CAPA-10-22406	EES6
R-57	971.5	05/09/11	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	4.83	—	—	—	permil	—	—	11-2364	CAPA-11-9519	EES6
R-57	971.5	06/25/10	WG	F	CS	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.81	—	—	—	permil	—	—	10-3499	CAPA-10-22405	EES6
R-57	971.5	06/25/10	WG	F	DUP	—	Isotope	Nitrogen Ratio	Nitrogen-15/Nitrogen-14 Ratio	—	5.18	—	—	—	permil	—	—	10-3499	CAPA-10-22405	EES6
R-57	971.5	05/09/11	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.40	—	—	—	permil	—	—	11-2364	CAPA-11-9518	EES6
R-57	971.5	06/25/10	WG	UF	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio	—	-11.02	—	—	—	permil	—	—	10-3499	CAPA-10-22406	EES6
R-57	971.5	06/25/10	WG	F	CS	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-1.93	—	—	—	permil	—	—	10-3499	CAPA-10-22405	EES6
R-57	971.5	06/25/10	WG	F	DUP	—	Isotope	Oxygen Ratio	Oxygen-18/Oxygen-16 Ratio from Nitrate	—	-3.27	—	—	—	permil	—	—	10-3499	CAPA-10-22405	EES6
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.16	6.39E-01	2.24E+00	—	pCi/L	U	U	11-2878	CAPA-11-23039	ARSL
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.93	5.75E-01	2.01E+00	—	pCi/L	U	U	11-2438	CAPA-11-9518	ARSL
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.96	1.05E+00	3.07E+00	—	pCi/L	U	U	10-3509	CAPA-10-22406	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.268	—	—	3.30E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.257	—	—	3.30E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.289	—	—	3.30E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.209	—	—	3.30E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.219	—	—	3.30E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41.2	—	—	4.50E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	44.6	—	—	4.50E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.5	—	—	4.50E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	38	—	—	4.50E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41.4	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	42.8	—	—	4.50E-01	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	43.8	—	—	4.50E-01	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	50	—	—	4.50E-01	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39	—	—	4.50E-01	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	42.1	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.43	—	—	1.10E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.61	—	—	1.10E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.86	—	—	1.10E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.35	—	—	1.10E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.48	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.57	—	—	1.10E-01	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.56	—	—	1.10E-01	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.07	—	—	1.10E-01	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.42	—	—	1.10E-01	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.55	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.241	—	—	5.00E-02	mg/L	J	J	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.255	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.228	—	—	1.00E-01	mg/L	J	J+	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.222	—	—	5.00E-02	mg/L	J	J	11-1182	CAPA-11-3009	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.235	—	—	5.00E-02	mg/L	J	J	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.218	—	—	5.00E-02	µg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.194	—	—	5.00E-02	µg/L	J	J	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.189	—	—	5.00E-02	µg/L	J	J	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.226	—	—	5.00E-02	µg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.21	—	—	5.00E-02	µg/L	—	J+	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.22	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.26	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.47	—	—	5.00E-02	mg/L	—	J	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.41	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.26	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.21	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.23	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.65	—	—	5.00E-02	mg/L	—	J	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.45	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.31	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.7	—	—	1.00E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.9	—	—	1.00E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.7	—	—	1.00E-01	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27377	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	130	—	—	1.00E+00	µS/cm	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	132	—	—	1.00E+00	µS/cm	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	138	—	—	1.00E+00	µS/cm	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	124	—	—	1.00E+00	µS/cm	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.75	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.7	—	—	1.00E-01	mg/L	—	J+	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.85	—	—	1.00E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.93	—	—	1.00E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.74	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	139	—	—	3.40E+00	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	137	—	—	3.40E+00	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	137	—	—	2.40E+00	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	142	—	—	2.40E+00	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	147	—	—	2.40E+00	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.68	—	—	3.30E-01	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.43	—	—	3.30E-01	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.51	—	—	3.30E-01	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.18	—	—	3.30E-01	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.5	—	—	3.30E-01	mg/L	—	—	11-127	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.03	—	—	1.00E-02	SU	H	J-	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.01	—	—	1.00E-02	SU	H	J-	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.79	—	—	1.00E-02	SU	H	J-	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.95	—	—	1.00E-02	SU	H	J-	11-1182	CAPA-11-7311	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	—	70.4	—	—	6.80E+01	µg/L	J	J	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	141	—	—	6.80E+01	µg/L	J	J	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	82.4	—	—	6.80E+01	µg/L	J	J	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	176	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	187	—	—	1.00E+00	µg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	185	—	—	1.00E+00	µg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	155	—	—	1.00E+00	µg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	166	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	182	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	182	—	—	1.00E+00	µg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	199	—	—	1.00E+00	µg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	158	—	—	1.00E+00	µg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	168	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	34	—	—	3.00E+01	µg/L	J	J	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	38.6	—	—	3.00E+01	µg/L	J	J	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	30.7	—	—	3.00E+01	µg/L	J	J	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	65.3	—	—	2.00E+00	µg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	72.7	—	—	2.00E+00	µg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	75.3	—	—	2.00E+00	µg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	38.5	—	—	2.00E+00	µg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	63.7	—	—	2.00E+00	µg/L	—	—	11-128	CAPA-10-27375	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	69.7	—	—	2.00E+00	µg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	71	—	—	2.00E+00	µg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	80.7	—	—	2.00E+00	µg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	39.4	—	—	2.00E+00	µg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	64.2	—	—	2.00E+00	µg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.4	—	—	1.70E-01	µg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.34	—	—	1.70E-01	µg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.45	—	—	1.70E-01	µg/L	—	J	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.51	—	—	1.70E-01	µg/L	—	J	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.51	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.32	—	—	1.70E-01	µg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.31	—	—	1.70E-01	µg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.45	—	—	1.70E-01	µg/L	—	J	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.52	—	—	1.70E-01	µg/L	—	J	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.47	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.89	—	—	5.00E-01	µg/L	J	J	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.64	—	—	5.00E-01	µg/L	J	J	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.13	—	—	5.00E-01	µg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.96	—	—	5.00E-01	µg/L	J	J	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.81	—	—	5.00E-01	µg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.01	—	—	5.00E-01	µg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.64	—	—	5.00E-01	µg/L	J	J	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.42	—	—	5.00E-01	µg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.71	—	—	5.00E-01	µg/L	J	J	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.75	—	—	5.00E-01	µg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	73.4	—	—	5.30E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	78.4	—	—	5.30E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	76.5	—	—	5.30E-02	mg/L	—	—	11-2171	CAPA-11-9312	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	79	—	—	5.30E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70.3	—	—	5.30E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	200	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	212	—	—	1.00E+00	µg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	210	—	—	1.00E+00	µg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	176	—	—	1.00E+00	µg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	200	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	208	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	209	—	—	1.00E+00	µg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	225	—	—	1.00E+00	µg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	180	—	—	1.00E+00	µg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	204	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.389	—	—	6.70E-02	µg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.404	—	—	6.70E-02	µg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.393	—	—	6.70E-02	µg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.635	—	—	6.70E-02	µg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.552	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.368	—	—	6.70E-02	µg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.391	—	—	6.70E-02	µg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.417	—	—	6.70E-02	µg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.664	—	—	6.70E-02	µg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.519	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.46	—	—	1.00E+00	µg/L	J	J	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.51	—	—	1.00E+00	µg/L	J	J	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.14	—	—	1.00E+00	µg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.24	—	—	1.00E+00	µg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.72	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.09	—	—	1.00E+00	µg/L	J	J	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.91	—	—	1.00E+00	µg/L	J	J	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.93	—	—	1.00E+00	µg/L	J	J	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.15	—	—	1.00E+00	µg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.99	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-27377	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	HASL-300	Americium-241	<	-0.00473	1.10E-03	3.40E-02	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00475	2.23E-03	3.70E-02	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0055	1.17E-03	4.50E-02	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00139	1.83E-03	4.60E-02	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000582	5.67E-04	3.20E-02	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00425	2.30E-03	3.80E-02	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	EPA:901.1	Cesium-137	<	1.93	4.33E-01	4.60E+00	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.28	6.00E-01	6.50E+00	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.16	4.67E-01	5.00E+00	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.492	4.33E-01	4.20E+00	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.942	3.67E-01	3.90E+00	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.46	5.00E-01	5.30E+00	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.414	3.67E-01	3.70E+00	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.97	5.00E-01	5.00E+00	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.89	4.33E-01	3.50E+00	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.878	4.33E-01	4.70E+00	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-2.11	3.67E-01	3.10E+00	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.821	4.67E-01	4.80E+00	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	EPA:900	Gross alpha	<	2.06	2.90E-01	2.10E+00	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	3.19	3.67E-01	2.50E+00	—	pCi/L	—	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.05	2.43E-01	2.30E+00	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.01	2.53E-01	2.60E+00	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.241	1.70E-01	2.10E+00	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.593	2.03E-01	2.30E+00	—	pCi/L	U	U	09-2099	CAPA-09-9414	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	EPA:900	Gross beta	<	2.32	2.73E-01	2.50E+00	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.49	2.50E-01	2.30E+00	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.53	3.67E-01	3.00E+00	—	pCi/L	—	—	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.33	2.20E-01	2.00E+00	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	5.84	4.33E-01	3.20E+00	—	pCi/L	—	—	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.83	2.37E-01	2.00E+00	—	pCi/L	—	—	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	EPA:901.1	Neptunium-237	<	15.9	4.00E+00	4.00E+01	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	3.3	8.67E-01	9.90E+00	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	4.4	9.00E-01	9.40E+00	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-4.31	3.33E+00	3.40E+01	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	31.9	4.00E+00	2.40E+01	—	pCi/L	UI	R	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	39.1	5.00E+00	4.50E+01	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	HASL-300	Plutonium-238	<	0.00144	4.67E-04	2.60E-02	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00304	4.67E-03	5.30E-02	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	1.83E-03	2.00E-02	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00856	4.00E-03	4.20E-02	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00164	5.33E-04	2.90E-02	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	5.00E-04	2.60E-02	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00431	8.33E-04	2.60E-02	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00913	1.77E-03	5.10E-02	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.009	1.83E-03	3.30E-02	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00285	9.67E-04	4.50E-02	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00328	7.67E-04	3.20E-02	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00291	7.00E-04	2.70E-02	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	EPA:901.1	Potassium-40	<	-6.74	5.33E+00	5.60E+01	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-8.59	7.00E+00	7.60E+01	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	16.4	6.33E+00	7.30E+01	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-0.531	5.67E+00	6.50E+01	—	pCi/L	U	U	10-779	CAPA-10-6855	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	11.1	5.33E+00	5.40E+01	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	15.6	5.00E+00	3.90E+01	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.282	4.67E-02	4.30E-01	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.545	6.67E-02	4.90E-01	—	pCi/L	—	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	1.11	1.10E-01	6.80E-01	—	pCi/L	—	—	09-3133	CAPA-09-12265	GELC
R-20	1147.1	09/18/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.559	5.67E-02	3.90E-01	—	pCi/L	—	—	08-1989	CAPA-08-15065	GELC
R-20	1147.1	11/08/04	WG	UF	CS	—	Rad	EPA:901.1	Radium-226	—	62.2	1.63E+00	7.23E+00	—	pCi/L	—	—	125410	GU0411G20R201	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.671	6.00E-02	4.00E-01	—	pCi/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.829	1.10E-01	9.30E-01	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.96	1.10E-01	8.80E-01	—	pCi/L	—	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	09/18/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.449	5.67E-02	4.70E-01	—	pCi/L	U	U	08-1989	CAPA-08-15065	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	EPA:901.1	Sodium-22	<	0.606	4.67E-01	4.70E+00	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.0873	4.33E-01	5.00E+00	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.23	3.67E-01	4.20E+00	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.13	3.67E-01	3.50E+00	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.23	4.00E-01	3.40E+00	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.559	5.00E-01	5.20E+00	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	EPA:905.0	Strontium-90	<	0.167	3.67E-02	3.80E-01	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.373	5.33E-02	4.80E-01	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0172	3.67E-02	4.30E-01	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.134	4.33E-02	4.90E-01	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.12	2.67E-02	2.60E-01	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0897	4.33E-02	4.50E-01	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.25	2.23E-01	2.26E+00	—	pCi/L	U	U	12-244	CAPA-12-1136	ARSL
R-20	1147.1	07/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.2772	2.24E-01	2.14E+00	—	pCi/L	U	U	11-2942	CAPA-11-22881	ARSL
R-20	1147.1	04/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.5544	2.98E-01	2.94E+00	—	pCi/L	U	U	11-2197	CAPA-11-9314	ARSL
R-20	1147.1	01/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.75615	2.13E-01	1.82E+00	—	pCi/L	U	R	11-1211	CAPA-11-3010	ARSL
R-20	1147.1	01/21/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	2.20317	2.24E-01	1.82E+00	—	pCi/L	—	—	11-1211	CAPA-11-3010	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.48037	2.98E-01	2.36E+00	—	pCi/L	—	R	11-195	CAPA-10-27377	ARSL
R-20	1147.1	10/11/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.82001	2.55E-01	2.36E+00	—	pCi/L	U	U	11-195	CAPA-10-27377	ARSL
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	HASL-300	Uranium-234	—	0.278	1.13E-02	1.10E-01	—	pCi/L	—	—	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.186	1.03E-02	6.20E-02	—	pCi/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.213	1.00E-02	8.70E-02	—	pCi/L	—	—	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.279	1.20E-02	1.00E-01	—	pCi/L	—	—	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.135	8.33E-03	1.00E-01	—	pCi/L	—	—	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.309	1.23E-02	1.10E-01	—	pCi/L	—	—	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00682	3.23E-03	5.00E-02	—	pCi/L	U	U	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00925	2.20E-03	4.60E-02	—	pCi/L	U	U	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00741	2.47E-03	4.10E-02	—	pCi/L	U	U	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0262	3.33E-03	5.20E-02	—	pCi/L	U	U	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0103	2.00E-03	5.10E-02	—	pCi/L	U	U	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.02	3.17E-03	4.90E-02	—	pCi/L	U	U	09-2099	CAPA-09-9414	GELC
R-20	1147.1	05/29/09	WG	F	CS	—	Rad	HASL-300	Uranium-238	—	0.179	8.67E-03	5.00E-02	—	pCi/L	—	—	09-2099	CAPA-09-9412	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.176	9.67E-03	7.30E-02	—	pCi/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/30/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.18	9.00E-03	5.30E-02	—	pCi/L	—	—	10-3926	CAPA-10-24110	GELC
R-20	1147.1	12/02/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.185	9.00E-03	6.20E-02	—	pCi/L	—	—	10-779	CAPA-10-6855	GELC
R-20	1147.1	09/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.139	7.67E-03	5.10E-02	—	pCi/L	—	—	09-3133	CAPA-09-12265	GELC
R-20	1147.1	05/29/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.175	8.33E-03	4.90E-02	—	pCi/L	—	—	09-2099	CAPA-09-9414	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	—	0.49	—	—	3.00E-01	µg/L	J	J	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-1182	CAPA-11-3010	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-1175	CAPA-11-3489	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	—	0.35	—	—	2.50E-01	µg/L	J	J	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	—	0.3	—	—	2.50E-01	µg/L	J	J	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	—	0.34	—	—	2.50E-01	µg/L	J	J	11-2171	CAPA-11-9314	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	—	0.59	—	—	2.50E-01	µg/L	J	J	11-1182	CAPA-11-3010	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	—	0.51	—	—	2.50E-01	µg/L	J	J	11-1175	CAPA-11-3489	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	VOA	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	—	0.68	—	—	5.00E-01	µg/L	J	J	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	—	0.63	—	—	5.00E-01	µg/L	J	J	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	—	0.52	—	—	5.00E-01	µg/L	J	J	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	—	0.63	—	—	5.00E-01	µg/L	J	J	11-1182	CAPA-11-3010	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Xylene[1,3-]+Xylene[1,4-]	—	0.67	—	—	5.00E-01	µg/L	J	J	11-1175	CAPA-11-3489	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56	—	—	7.30E-01	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61	—	—	7.30E-01	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.5	—	—	7.30E-01	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57.5	—	—	7.30E-01	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61	—	—	7.30E-01	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0194	—	—	1.60E-02	mg/L	J	J	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.2	—	—	5.00E-02	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.7	—	—	5.00E-02	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.9	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.8	—	—	5.00E-02	mg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.7	—	—	5.00E-02	mg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.7	—	—	5.00E-02	mg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.8	—	—	5.00E-02	mg/L	—	—	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.8	—	—	6.60E-02	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.77	—	—	6.60E-02	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.83	—	—	6.60E-02	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.242	—	—	3.30E-02	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.249	—	—	3.30E-02	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.221	—	—	3.30E-02	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.229	—	—	3.30E-02	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.235	—	—	3.30E-02	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	43.9	—	—	4.50E-01	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40	—	—	4.50E-01	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41.9	—	—	4.50E-01	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	38.9	—	—	4.50E-01	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	42.5	—	—	3.50E-01	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	42.3	—	—	4.50E-01	mg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.6	—	—	4.50E-01	mg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.6	—	—	4.50E-01	mg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39.2	—	—	4.50E-01	mg/L	—	—	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	42.3	—	—	3.50E-01	mg/L	—	—	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.25	—	—	1.10E-01	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.92	—	—	1.10E-01	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.06	—	—	1.10E-01	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.83	—	—	1.10E-01	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.1	—	—	8.50E-02	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.11	—	—	1.10E-01	mg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3	—	—	1.10E-01	mg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.04	—	—	1.10E-01	mg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.88	—	—	1.10E-01	mg/L	—	—	11-1225	CAPA-11-3013	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.12	—	—	8.50E-02	mg/L	—	—	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.339	—	—	5.00E-02	mg/L	—	J-	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.374	—	—	1.00E-01	mg/L	J	J	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.2	—	—	1.00E-02	mg/L	—	J-	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.312	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.368	—	—	5.00E-02	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.275	—	—	5.00E-02	µg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.277	—	—	5.00E-02	µg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.281	—	—	5.00E-02	µg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.295	—	—	5.00E-02	µg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.281	—	—	5.00E-02	µg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.78	—	—	5.00E-02	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.64	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.85	—	—	5.00E-02	mg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.65	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.71	—	—	5.00E-02	mg/L	—	—	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.83	—	—	1.00E-01	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.46	—	—	1.00E-01	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.93	—	—	1.00E-01	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.5	—	—	1.00E-01	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.49	—	—	1.00E-01	mg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.83	—	—	1.00E-01	mg/L	—	—	11-2904	CAPA-11-22884	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.84	—	—	1.00E-01	mg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.58	—	—	1.00E-01	mg/L	—	—	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	124	—	—	1.00E+00	µS/cm	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	127	—	—	1.00E+00	µS/cm	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	122	—	—	1.00E+00	µS/cm	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	128	—	—	1.00E+00	µS/cm	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	123	—	—	1.00E+00	µS/cm	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.05	—	—	1.00E-01	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.9	—	—	1.00E-01	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.01	—	—	1.00E-01	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.04	—	—	1.00E-01	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.05	—	—	1.00E-01	mg/L	—	J	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	117	—	—	3.40E+00	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	104	—	—	3.40E+00	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	127	—	—	2.40E+00	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	125	—	—	2.40E+00	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	128	—	—	2.40E+00	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.547	—	—	3.30E-01	mg/L	J	J	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.462	—	—	3.30E-01	mg/L	J	J	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.513	—	—	3.30E-01	mg/L	J	J	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	0.41	—	—	3.30E-01	mg/L	J	U	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.97	—	—	1.00E-02	SU	H	J-	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.97	—	—	1.00E-02	SU	H	J-	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.99	—	—	1.00E-02	SU	H	J-	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.91	—	—	1.00E-02	SU	H	J-	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.98	—	—	1.00E-02	SU	H	J-	11-108	CAPA-10-27381	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14.4	—	—	1.00E+00	µg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14.2	—	—	1.00E+00	µg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14.4	—	—	1.00E+00	µg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	15.1	—	—	1.00E+00	µg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	14	—	—	1.00E+00	µg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	14.8	—	—	1.00E+00	µg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	14.3	—	—	1.00E+00	µg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	14.1	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	15	—	—	1.00E+00	µg/L	—	—	11-108	CAPA-10-27382	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	6.36	—	—	2.00E+00	µg/L	J	J	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.57	—	—	2.00E+00	µg/L	J	J	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	UN	UJ	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.93	—	—	2.50E+00	µg/L	J	J	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.35	—	—	2.00E+00	µg/L	J	J	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	5.87	—	—	2.00E+00	µg/L	J	J	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3	—	—	2.00E+00	µg/L	J	J	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	UN	UJ	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.04	—	—	2.50E+00	µg/L	J	J	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	4.16	—	—	2.00E+00	µg/L	J	J	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	4.09	—	—	2.00E+00	µg/L	J	J	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	4.74	—	—	2.00E+00	µg/L	J	J	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	4.33	—	—	2.00E+00	µg/L	J	J	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	5.65	—	—	2.00E+00	µg/L	J	J	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	3.91	—	—	2.00E+00	µg/L	J	J	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	4.18	—	—	2.00E+00	µg/L	J	J	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	4.39	—	—	2.00E+00	µg/L	J	J	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	4.43	—	—	2.00E+00	µg/L	J	J	11-1225	CAPA-11-3013	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	4.7	—	—	2.00E+00	µg/L	J	J	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.25	—	—	1.70E-01	µg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.19	—	—	1.70E-01	µg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.19	—	—	1.70E-01	µg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.53	—	—	1.70E-01	µg/L	—	U	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.37	—	—	1.00E-01	µg/L	—	J	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.31	—	—	1.70E-01	µg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.12	—	—	1.70E-01	µg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.23	—	—	1.70E-01	µg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	1.36	—	—	1.70E-01	µg/L	—	U	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.31	—	—	1.00E-01	µg/L	—	J	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	73.2	—	—	5.30E-02	mg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.6	—	—	5.30E-02	mg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	73.1	—	—	5.30E-02	mg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.6	—	—	5.30E-02	mg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	77.3	—	—	5.30E-02	mg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	47.8	—	—	1.00E+00	µg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	44.4	—	—	1.00E+00	µg/L	—	—	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	45.6	—	—	1.00E+00	µg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	44.3	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	48.3	—	—	1.00E+00	µg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	46	—	—	1.00E+00	µg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	46	—	—	1.00E+00	µg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	45.4	—	—	1.00E+00	µg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	44.5	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	49.2	—	—	1.00E+00	µg/L	—	—	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.327	—	—	6.70E-02	µg/L	—	—	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.339	—	—	6.70E-02	µg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.314	—	—	6.70E-02	µg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.361	—	—	6.70E-02	µg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	<	0.367	—	—	5.00E-02	µg/L	—	U	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.357	—	—	6.70E-02	µg/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.334	—	—	6.70E-02	µg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.338	—	—	6.70E-02	µg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.343	—	—	6.70E-02	µg/L	—	—	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.355	—	—	5.00E-02	µg/L	—	U	11-108	CAPA-10-27382	GELC
R-21	888.8	11/03/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.67	—	—	1.00E+00	µg/L	J	J	12-277	CAPA-12-1174	GELC
R-21	888.8	07/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.96	—	—	1.00E+00	µg/L	J	J	11-2904	CAPA-11-22883	GELC
R-21	888.8	04/19/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.14	—	—	1.00E+00	µg/L	—	—	11-2109	CAPA-11-9316	GELC
R-21	888.8	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.17	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3011	GELC
R-21	888.8	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.38	—	—	1.00E+00	µg/L	—	—	11-108	CAPA-10-27381	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.67	—	—	1.00E+00	µg/L	J	J	12-277	CAPA-12-1173	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.11	—	—	1.00E+00	µg/L	—	—	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.11	—	—	1.00E+00	µg/L	—	—	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.45	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3013	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.59	—	—	1.00E+00	µg/L	—	—	11-108	CAPA-10-27382	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	HASL-300	Americium-241	<	-0.0136	3.33E-03	3.50E-02	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00522	2.77E-03	4.10E-02	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000135	1.80E-03	3.50E-02	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00223	5.67E-04	2.30E-02	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00237	6.67E-04	3.30E-02	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	EPA:901.1	Cesium-137	<	0.385	4.00E-01	4.20E+00	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.575	4.67E-01	4.70E+00	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.12	5.33E-01	5.00E+00	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.19	2.67E-01	2.50E+00	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.817	4.00E-01	3.80E+00	—	pCi/L	U	U	09-2929	CAMO-09-9908	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.28	4.00E-01	3.60E+00	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.57	6.00E-01	5.70E+00	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.38	4.67E-01	3.90E+00	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.379	2.40E-01	2.40E+00	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.6	5.33E-01	5.40E+00	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/20/07	WG	F	CS	—	Rad	EPA:900	Gross alpha	<	0.875	1.84E-01	1.79E+00	—	pCi/L	U	U	192106	GF070800G21R01	GELC
R-21	888.8	06/13/07	WG	F	CS	—	Rad	EPA:900	Gross alpha	<	-0.867	1.62E-01	2.49E+00	—	pCi/L	U	U	187915	GF070600G21R01	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.214	1.23E-01	2.20E+00	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.35	2.83E-01	2.70E+00	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.65	2.20E-01	1.70E+00	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/20/07	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.802	2.60E-01	2.72E+00	—	pCi/L	U	U	192106	GU070800G21R01	GELC
R-21	888.8	06/13/07	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.391	1.79E-01	2.15E+00	—	pCi/L	U	U	187915	GU070600G21R01	GELC
R-21	888.8	08/20/07	WG	F	CS	—	Rad	EPA:900	Gross beta	<	1.54	2.99E-01	2.92E+00	—	pCi/L	U	U	192106	GF070800G21R01	GELC
R-21	888.8	06/13/07	WG	F	CS	—	Rad	EPA:900	Gross beta	—	10.4	3.57E-01	1.47E+00	—	pCi/L	—	—	187915	GF070600G21R01	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.03	3.07E-01	2.50E+00	—	pCi/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	-0.124	2.77E-01	2.90E+00	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.29	2.17E-01	2.00E+00	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/20/07	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	4.57	3.53E-01	2.96E+00	—	pCi/L	—	J	192106	GU070800G21R01	GELC
R-21	888.8	06/13/07	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.29	1.79E-01	1.36E+00	—	pCi/L	—	J	187915	GU070600G21R01	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.465	3.33E+00	3.30E+01	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.906	8.00E-01	8.80E+00	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	2.44	9.67E-01	9.90E+00	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	14.9	2.13E+00	2.10E+01	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.23	4.00E+00	3.70E+01	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00527	2.57E-03	2.50E-02	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00767	1.90E-03	2.90E-02	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00665	2.23E-03	3.00E-02	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00829	1.40E-03	3.60E-02	—	pCi/L	U	U	10-2446	CAPA-10-12829	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00548	1.60E-03	3.20E-02	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0123	1.57E-03	3.00E-02	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.70E-03	4.00E-02	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.0133	2.47E-03	4.80E-02	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00829	1.40E-03	2.50E-02	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00548	1.83E-03	3.60E-02	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	EPA:901.1	Potassium-40	<	48.5	6.33E+00	3.60E+01	—	pCi/L	UI	R	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-24.2	5.67E+00	5.80E+01	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	30.7	5.67E+00	6.40E+01	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	26.3	3.07E+00	3.30E+01	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-21.5	6.67E+00	5.90E+01	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	1.61	1.30E-01	6.20E-01	—	pCi/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.637	8.00E-02	6.40E-01	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.332	4.67E-02	3.60E-01	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.679	6.33E-02	4.50E-01	—	pCi/L	—	—	08-1690	CAMO-08-14524	GELC
R-21	888.8	02/11/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.36	6.00E-02	5.50E-01	—	pCi/L	U	U	08-620	CAMO-08-10446	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.125	7.67E-02	8.20E-01	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	-0.159	4.33E-02	5.60E-01	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.21	9.00E-02	9.40E-01	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.0851	5.00E-02	5.70E-01	—	pCi/L	U	U	08-1690	CAMO-08-14524	GELC
R-21	888.8	02/11/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.165	7.33E-02	7.90E-01	—	pCi/L	U	U	08-620	CAMO-08-10446	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.19	4.00E-01	3.40E+00	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.691	4.33E-01	4.70E+00	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.33	5.33E-01	4.70E+00	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.318	2.63E-01	2.50E+00	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.551	4.33E-01	4.40E+00	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.119	3.03E-02	4.00E-01	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0809	4.67E-02	5.00E-01	—	pCi/L	U	U	12-277	CAPA-12-1173	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0258	4.33E-02	4.90E-01	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.219	4.00E-02	4.80E-01	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0634	2.47E-02	2.50E-01	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.8	2.23E-01	2.19E+00	—	pCi/L	U	U	12-301	CAPA-12-1173	ARSL
R-21	888.8	07/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.86211	2.13E-01	2.14E+00	—	pCi/L	U	U	11-2942	CAPA-11-22884	ARSL
R-21	888.8	04/19/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.43685	2.45E-01	2.55E+00	—	pCi/L	U	U	11-2207	CAPA-11-9315	ARSL
R-21	888.8	01/27/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.04352	1.81E-01	1.63E+00	—	pCi/L	U	R	11-1276	CAPA-11-3013	ARSL
R-21	888.8	01/27/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.51088	1.60E-01	1.63E+00	—	pCi/L	U	U	11-1276	CAPA-11-3013	ARSL
R-21	888.8	10/11/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	4.56599	3.09E-01	1.85E+00	—	pCi/L	—	—	11-112	CAPA-10-27382	ARSL
R-21	888.8	08/14/08	WG	F	CS	—	Rad	HASL-300	Uranium-234	—	0.2	8.33E-03	7.50E-02	—	pCi/L	—	—	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.154	7.67E-03	6.10E-02	—	pCi/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.212	8.33E-03	5.60E-02	—	pCi/L	—	—	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.252	1.00E-02	3.80E-02	—	pCi/L	—	—	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.217	1.03E-02	1.10E-01	—	pCi/L	—	—	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0162	2.57E-03	4.00E-02	—	pCi/L	U	U	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0118	2.00E-03	3.20E-02	—	pCi/L	U	U	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0166	2.40E-03	2.60E-02	—	pCi/L	U	U	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0106	1.80E-03	3.00E-02	—	pCi/L	U	U	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00377	2.17E-03	5.60E-02	—	pCi/L	U	U	09-2929	CAMO-09-9908	GELC
R-21	888.8	08/14/08	WG	F	CS	—	Rad	HASL-300	Uranium-238	—	0.131	6.33E-03	3.90E-02	—	pCi/L	—	—	08-1690	CAMO-08-14525	GELC
R-21	888.8	11/03/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.105	6.33E-03	2.70E-02	—	pCi/L	—	—	12-277	CAPA-12-1173	GELC
R-21	888.8	08/11/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.127	6.00E-03	3.40E-02	—	pCi/L	—	—	10-4113	CAPA-10-24115	GELC
R-21	888.8	03/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.131	6.33E-03	2.70E-02	—	pCi/L	—	—	10-2446	CAPA-10-12829	GELC
R-21	888.8	08/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.101	7.00E-03	5.60E-02	—	pCi/L	—	—	09-2929	CAMO-09-9908	GELC
R-21	888.8	11/03/11	WG	UF	CS	FTB	VOA	SW-846:8260B	Diethyl Ether	—	0.31	—	—	3.00E-01	µg/L	J	J	12-276	CAPA-12-1175	GELC
R-21	888.8	07/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2904	CAPA-11-22884	GELC
R-21	888.8	04/19/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2109	CAPA-11-9315	GELC
R-21	888.8	01/27/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-1226	CAPA-11-3013	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-21	888.8	10/11/10	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-108	CAPA-10-27382	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	67.9	—	—	7.30E-01	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	68.8	—	—	7.30E-01	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	67.3	—	—	7.30E-01	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	69.2	—	—	7.30E-01	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	66.2	—	—	7.30E-01	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0907	—	—	6.60E-02	mg/L	J	J-	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0835	—	—	6.60E-02	mg/L	J	J	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.125	—	—	6.60E-02	mg/L	J	J	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.5	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.8	—	—	5.00E-02	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.3	—	—	5.00E-02	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.1	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.9	—	—	5.00E-02	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.8	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.2	—	—	5.00E-02	mg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.7	—	—	5.00E-02	mg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.9	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.9	—	—	5.00E-02	mg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.43	—	—	6.60E-02	mg/L	—	J-	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.56	—	—	6.60E-02	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.55	—	—	6.60E-02	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.48	—	—	6.60E-02	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.59	—	—	6.60E-02	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.365	—	—	3.30E-02	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.354	—	—	3.30E-02	mg/L	—	—	11-2911	CAPA-11-22868	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.291	—	—	3.30E-02	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.327	—	—	3.30E-02	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.361	—	—	3.30E-02	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	57.3	—	—	4.50E-01	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	58.7	—	—	4.50E-01	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	57.1	—	—	4.50E-01	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	56.1	—	—	4.50E-01	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	59.3	—	—	3.50E-01	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	58.4	—	—	4.50E-01	mg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	60	—	—	4.50E-01	mg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	58.7	—	—	4.50E-01	mg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	59.1	—	—	4.50E-01	mg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	58.9	—	—	3.50E-01	mg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.92	—	—	1.10E-01	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.08	—	—	1.10E-01	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4	—	—	1.10E-01	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.86	—	—	1.10E-01	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.13	—	—	8.50E-02	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4	—	—	1.10E-01	mg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.14	—	—	1.10E-01	mg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.12	—	—	1.10E-01	mg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.11	—	—	1.10E-01	mg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.06	—	—	8.50E-02	mg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.25	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.24	—	—	5.00E-02	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.13	—	—	1.00E-01	mg/L	—	J-	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.1	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.37	—	—	5.00E-02	mg/L	—	J	11-243	CAPA-10-27385	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.502	—	—	5.00E-02	µg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.431	—	—	5.00E-02	µg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.449	—	—	5.00E-02	µg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.482	—	—	5.00E-02	µg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.44	—	—	5.00E-02	µg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.76	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.93	—	—	5.00E-02	mg/L	—	J	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.85	—	—	5.00E-02	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.9	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.81	—	—	5.00E-02	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.85	—	—	5.00E-02	mg/L	—	J	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.91	—	—	5.00E-02	mg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.02	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.78	—	—	5.00E-02	mg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	164	—	—	1.00E+00	µS/cm	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	161	—	—	1.00E+00	µS/cm	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	164	—	—	1.00E+00	µS/cm	—	—	11-2091	CAPA-11-9586	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	170	—	—	1.00E+00	µS/cm	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	174	—	—	1.00E+00	µS/cm	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.13	—	—	1.00E-01	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.05	—	—	1.00E-01	mg/L	—	J+	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.17	—	—	1.00E-01	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.27	—	—	1.00E-01	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.29	—	—	1.00E-01	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	151	—	—	3.40E+00	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	149	—	—	3.40E+00	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	150	—	—	2.40E+00	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	153	—	—	2.40E+00	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	141	—	—	2.40E+00	mg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.39	—	—	3.30E-01	mg/L	—	—	12-186	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.38	—	—	3.30E-01	mg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.73	—	—	3.30E-01	mg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.62	—	—	3.30E-01	mg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-242	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.09	—	—	1.00E-02	SU	H	J-	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.18	—	—	1.00E-02	SU	H	J-	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.97	—	—	1.00E-02	SU	H	J-	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.04	—	—	1.00E-02	SU	H	J-	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.05	—	—	1.00E-02	SU	H	J-	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.6	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	21.2	—	—	1.00E+00	µg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	20.1	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	21	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	22.1	—	—	1.00E+00	µg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	21.1	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1139	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	21.4	—	—	1.00E+00	µg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	21	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22.9	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22.7	—	—	1.00E+00	µg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	7.38	—	—	2.00E+00	µg/L	J	U	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.86	—	—	2.00E+00	µg/L	J	J	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.84	—	—	2.50E+00	µg/L	J	J	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.31	—	—	2.00E+00	µg/L	J	J	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	7.24	—	—	2.00E+00	µg/L	J	U	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	10.2	—	—	2.00E+00	µg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.26	—	—	2.50E+00	µg/L	J	J	11-243	CAPA-10-27384	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	31.2	—	—	3.00E+01	µg/L	J	J	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	66.1	—	—	3.00E+01	µg/L	J	J	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-243	CAPA-10-27384	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	20.5	—	—	2.00E+00	µg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	15	—	—	2.00E+00	µg/L	—	—	11-2911	CAPA-11-22870	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	12.9	—	—	2.00E+00	µg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	30.9	—	—	2.00E+00	µg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	23.1	—	—	2.00E+00	µg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.69	—	—	1.70E-01	µg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.52	—	—	1.70E-01	µg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.52	—	—	1.70E-01	µg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.76	—	—	1.70E-01	µg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.12	—	—	1.00E-01	µg/L	—	J	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.7	—	—	1.70E-01	µg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.55	—	—	1.70E-01	µg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.53	—	—	1.70E-01	µg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.92	—	—	1.70E-01	µg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.09	—	—	1.00E-01	µg/L	—	J	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.579	—	—	5.00E-01	µg/L	J	J	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	0.712	—	—	5.00E-01	µg/L	J	U	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.746	—	—	5.00E-01	µg/L	J	J	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	1.61	—	—	5.00E-01	µg/L	J	U	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	8.79	—	—	5.00E-01	µg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.76	—	—	5.00E-01	µg/L	J	J	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	0.876	—	—	5.00E-01	µg/L	J	U	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.947	—	—	5.00E-01	µg/L	J	J	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	4.41	—	—	5.00E-01	µg/L	—	J	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	62.6	—	—	5.30E-02	mg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.7	—	—	5.30E-02	mg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	60	—	—	5.30E-02	mg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	65	—	—	5.30E-02	mg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.8	—	—	5.30E-02	mg/L	—	—	11-243	CAPA-10-27385	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	79.9	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	82.5	—	—	1.00E+00	µg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	76.8	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	79.6	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	84.1	—	—	1.00E+00	µg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	81.8	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	83.3	—	—	1.00E+00	µg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	79.2	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	83.9	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	82	—	—	1.00E+00	µg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.443	—	—	6.70E-02	µg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.479	—	—	6.70E-02	µg/L	—	—	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.411	—	—	6.70E-02	µg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.488	—	—	6.70E-02	µg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.473	—	—	5.00E-02	µg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.444	—	—	6.70E-02	µg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.479	—	—	6.70E-02	µg/L	—	—	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.41	—	—	6.70E-02	µg/L	—	—	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.458	—	—	6.70E-02	µg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.45	—	—	5.00E-02	µg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.36	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1140	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.36	—	—	1.00E+00	µg/L	—	J	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.19	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.06	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.78	—	—	1.00E+00	µg/L	—	—	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.72	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.88	—	—	1.00E+00	µg/L	—	J	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.62	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9588	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.65	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.7	—	—	1.00E+00	µg/L	—	—	11-243	CAPA-10-27384	GELC
R-23	816	07/22/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2911	CAPA-11-22868	GELC
R-23	816	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	22	—	—	3.30E+00	µg/L	—	J	11-2091	CAPA-11-9586	GELC
R-23	816	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-1198	CAPA-11-2977	GELC
R-23	816	10/22/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	7.7	—	—	3.30E+00	µg/L	J	U	11-243	CAPA-10-27385	GELC
R-23	816	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	3.88	—	—	3.30E+00	µg/L	J	J	12-187	CAPA-12-1139	GELC
R-23	816	07/22/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	4.43	—	—	3.30E+00	µg/L	J	J	11-2911	CAPA-11-22870	GELC
R-23	816	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	6.5	—	—	3.30E+00	µg/L	J	U	11-2091	CAPA-11-9588	GELC
R-23	816	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-1198	CAPA-11-2976	GELC
R-23	816	10/22/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	7.3	—	—	3.30E+00	µg/L	J	U	11-243	CAPA-10-27384	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00207	1.20E-03	3.20E-02	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00243	1.47E-03	3.90E-02	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.000122	1.00E-03	2.90E-02	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00286	6.00E-04	3.30E-02	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.65	6.00E-01	7.10E+00	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.0332	4.00E-01	4.00E+00	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.639	5.00E-01	5.00E+00	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.154	3.33E-01	3.30E+00	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-2.11	5.67E-01	5.70E+00	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.764	4.67E-01	4.10E+00	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.623	5.00E-01	4.90E+00	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.04	3.67E-01	3.80E+00	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	06/04/09	WG	F	CS	—	Rad	EPA:900	Gross alpha	<	0.949	2.13E-01	2.10E+00	—	pCi/L	U	U	09-2194	CAPA-09-9416	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.155	1.40E-01	2.10E+00	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.437	1.90E-01	2.30E+00	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	—	3.41	3.67E-01	2.10E+00	—	pCi/L	—	—	09-3133	CAPA-09-12270	GELC
R-23	816	06/04/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.389	1.57E-01	1.70E+00	—	pCi/L	U	U	09-2194	CAPA-09-9417	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	06/04/09	WG	F	CS	—	Rad	EPA:900	Gross beta	<	0.877	1.90E-01	1.90E+00	—	pCi/L	U	U	09-2194	CAPA-09-9416	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.489	2.00E-01	2.10E+00	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.19	3.00E-01	2.70E+00	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.68	2.97E-01	2.40E+00	—	pCi/L	—	—	09-3133	CAPA-09-12270	GELC
R-23	816	06/04/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.23	2.37E-01	2.30E+00	—	pCi/L	U	U	09-2194	CAPA-09-9417	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	2.93	1.10E+00	1.20E+01	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-3.36	8.33E-01	7.50E+00	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	4.9	3.67E+00	3.60E+01	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	8.83	3.07E+00	3.00E+01	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00266	2.67E-03	4.60E-02	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.001	1.33E-03	2.20E-02	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00719	4.67E-03	4.20E-02	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	5.33E-04	2.70E-02	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.27E-03	4.50E-02	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.0566	4.67E-03	3.60E-02	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00479	1.97E-03	2.90E-02	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00622	1.03E-03	3.10E-02	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-10.4	7.00E+00	7.40E+01	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-4.76	5.00E+00	5.20E+01	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	35.1	6.33E+00	7.00E+01	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	7.15	5.33E+00	5.40E+01	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.524	5.33E-02	3.40E-01	—	pCi/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.21	3.30E-02	2.90E-01	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	1.1	1.03E-01	6.40E-01	—	pCi/L	—	—	09-3133	CAPA-09-12270	GELC
R-23	816	09/08/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.315	6.67E-02	6.40E-01	—	pCi/L	U	U	08-1870	CAPA-08-15077	GELC
R-23	816	03/04/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.273	3.33E-02	2.30E-01	—	pCi/L	—	U	08-743	CAPA-08-11054	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.381	4.33E-02	3.50E-01	—	pCi/L	—	U	12-187	CAPA-12-1139	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.675	9.00E-02	7.70E-01	—	pCi/L	U	U	10-2336	CAPA-10-12833	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.348	6.67E-02	6.40E-01	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	09/08/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.599	5.00E-02	2.80E-01	—	pCi/L	—	—	08-1870	CAPA-08-15077	GELC
R-23	816	03/04/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	-0.0339	6.00E-02	7.10E-01	—	pCi/L	U	U	08-743	CAPA-08-11054	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-3.92	5.00E-01	3.90E+00	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.39	4.00E-01	2.80E+00	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.22	5.00E-01	4.20E+00	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.24	3.30E-01	3.00E+00	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0278	4.33E-02	4.70E-01	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.139	3.67E-02	3.60E-01	—	pCi/L	U	U	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0287	4.33E-02	4.80E-01	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0514	3.10E-02	3.10E-01	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.16	2.17E-01	2.20E+00	—	pCi/L	U	U	12-244	CAPA-12-1139	ARSL
R-23	816	07/22/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.21334	2.55E-01	2.49E+00	—	pCi/L	U	U	11-2942	CAPA-11-22870	ARSL
R-23	816	04/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.24527	2.45E-01	2.49E+00	—	pCi/L	U	U	11-2197	CAPA-11-9588	ARSL
R-23	816	01/24/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.69229	2.77E-01	2.65E+00	—	pCi/L	U	R	11-1211	CAPA-11-2976	ARSL
R-23	816	01/24/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.94773	2.87E-01	2.65E+00	—	pCi/L	U	U	11-1211	CAPA-11-2976	ARSL
R-23	816	10/22/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.12772	1.06E-01	1.09E+00	—	pCi/L	U	R	11-304	CAPA-10-27384	ARSL
R-23	816	10/22/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.28737	1.17E-01	1.15E+00	—	pCi/L	U	U	11-304	CAPA-10-27384	ARSL
R-23	816	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.342	1.47E-02	6.00E-02	—	pCi/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.322	1.10E-02	5.30E-02	—	pCi/L	—	—	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.357	1.30E-02	4.30E-02	—	pCi/L	—	—	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.366	1.40E-02	1.10E-01	—	pCi/L	—	—	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00893	2.10E-03	4.40E-02	—	pCi/L	U	U	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0314	2.90E-03	2.50E-02	—	pCi/L	—	—	10-4140	CAPA-10-24119	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0209	2.67E-03	3.40E-02	—	pCi/L	U	U	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0	2.47E-03	5.50E-02	—	pCi/L	U	U	09-3133	CAPA-09-12270	GELC
R-23	816	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.162	9.00E-03	7.10E-02	—	pCi/L	—	—	12-187	CAPA-12-1139	GELC
R-23	816	08/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.192	7.67E-03	3.20E-02	—	pCi/L	—	—	10-4140	CAPA-10-24119	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23	816	03/05/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.164	8.00E-03	3.00E-02	—	pCi/L	—	—	10-2336	CAPA-10-12833	GELC
R-23	816	09/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.183	9.00E-03	5.50E-02	—	pCi/L	—	—	09-3133	CAPA-09-12270	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	101	—	—	7.30E-01	mg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	101	—	—	7.30E-01	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	97.6	—	—	7.30E-01	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	99.7	—	—	7.30E-01	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	94	—	—	7.30E-01	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0322	—	—	1.60E-02	mg/L	J	J+	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.105	—	—	1.60E-02	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.105	—	—	6.60E-02	mg/L	J	J-	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0959	—	—	6.60E-02	mg/L	J	J	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.104	—	—	6.60E-02	mg/L	J	J	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.9	—	—	5.00E-02	mg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	28.5	—	—	5.00E-02	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.8	—	—	5.00E-02	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.9	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	27	—	—	5.00E-02	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	28.3	—	—	5.00E-02	mg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	28.8	—	—	5.00E-02	mg/L	—	—	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	27	—	—	5.00E-02	mg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.1	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	27.2	—	—	5.00E-02	mg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	15.8	—	—	6.60E-02	mg/L	—	—	12-283	CAPA-12-1114	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	16.2	—	—	6.60E-02	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.66	—	—	6.60E-02	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	17.8	—	—	6.60E-02	mg/L	—	J+	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	19.4	—	—	6.60E-02	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.204	—	—	3.30E-02	mg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.199	—	—	3.30E-02	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.269	—	—	3.30E-02	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.222	—	—	3.30E-02	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.188	—	—	3.30E-02	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	106	—	—	4.50E-01	mg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	109	—	—	4.50E-01	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	105	—	—	4.50E-01	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	107	—	—	3.50E-01	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	107	—	—	3.50E-01	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	112	—	—	4.50E-01	mg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	111	—	—	4.50E-01	mg/L	—	—	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	106	—	—	4.50E-01	mg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	104	—	—	3.50E-01	mg/L	—	—	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	108	—	—	3.50E-01	mg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.47	—	—	1.10E-01	mg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.25	—	—	1.10E-01	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.29	—	—	1.10E-01	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.74	—	—	8.50E-02	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.47	—	—	8.50E-02	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	10	—	—	1.10E-01	mg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.57	—	—	1.10E-01	mg/L	—	—	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.45	—	—	1.10E-01	mg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.45	—	—	8.50E-02	mg/L	—	—	11-1105	CAPA-11-2958	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.66	—	—	8.50E-02	mg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.59	—	—	5.00E-02	mg/L	H	J-	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.58	—	—	5.00E-02	mg/L	—	J-	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.404	—	—	1.00E-02	mg/L	—	J-	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.56	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.56	—	—	5.00E-02	mg/L	—	J	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.296	—	—	5.00E-02	µg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.31	—	—	5.00E-02	µg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.321	—	—	5.00E-02	µg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.323	—	—	5.00E-02	µg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.275	—	—	5.00E-02	µg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.59	—	—	5.00E-02	mg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.66	—	—	5.00E-02	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.72	—	—	5.00E-02	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.93	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.78	—	—	5.00E-02	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.83	—	—	5.00E-02	mg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.69	—	—	5.00E-02	mg/L	—	—	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.75	—	—	5.00E-02	mg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.91	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	3.77	—	—	5.00E-02	mg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.2	—	—	1.00E-01	mg/L	N	J-	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.5	—	—	1.00E-01	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.5	—	—	1.00E-01	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.1	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.7	—	—	1.00E-01	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.3	—	—	1.00E-01	mg/L	N	J-	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.9	—	—	1.00E-01	mg/L	—	—	11-2928	CAPA-11-22843	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.5	—	—	1.00E-01	mg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.6	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.2	—	—	1.00E-01	mg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	288	—	—	1.00E+00	µS/cm	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	271	—	—	1.00E+00	µS/cm	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	272	—	—	1.00E+00	µS/cm	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	289	—	—	1.00E+00	µS/cm	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	289	—	—	1.00E+00	µS/cm	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	13.3	—	—	1.00E-01	mg/L	—	J+	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	12.1	—	—	1.00E-01	mg/L	—	J+	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.82	—	—	1.00E-01	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	13.2	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	12.7	—	—	1.00E-01	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	197	—	—	3.40E+00	mg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	194	—	—	3.40E+00	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	190	—	—	2.40E+00	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	177	—	—	2.40E+00	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	195	—	—	2.40E+00	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.753	—	—	3.30E-01	mg/L	J	J	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.523	—	—	3.30E-01	mg/L	J	J	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.512	—	—	3.30E-01	mg/L	J	J	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.701	—	—	3.30E-01	mg/L	J	J	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.7	—	—	3.30E-01	mg/L	J	J	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.0373	—	—	1.50E-02	mg/L	J	J	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.0748	—	—	1.50E-02	mg/L	—	U	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.0598	—	—	1.50E-02	mg/L	—	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.106	—	—	1.50E-02	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.064	—	—	1.50E-02	mg/L	—	U	11-237	CAPA-10-26932	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.79	—	—	1.00E-02	SU	H	J-	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.83	—	—	1.00E-02	SU	H	J-	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.39	—	—	1.00E-02	SU	H	J-	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.81	—	—	1.00E-02	SU	H	J-	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.01	—	—	1.00E-02	SU	H	J-	11-237	CAPA-10-26932	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	157	—	—	6.80E+01	µg/L	J	J	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	165	—	—	6.80E+01	µg/L	J	J	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	136	—	—	6.80E+01	µg/L	J	U	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	93.9	—	—	6.80E+01	µg/L	J	J	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	1.93	—	—	1.70E+00	µg/L	J	J	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.50E+00	µg/L	U	U	11-237	CAPA-10-26932	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.50E+00	µg/L	U	U	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	55.6	—	—	1.00E+00	µg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	54.1	—	—	1.00E+00	µg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	52.9	—	—	1.00E+00	µg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	54.9	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	54.2	—	—	1.00E+00	µg/L	—	—	11-237	CAPA-10-26932	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	59.6	—	—	1.00E+00	µg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	56.8	—	—	1.00E+00	µg/L	—	—	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	55.1	—	—	1.00E+00	µg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	53.6	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	56	—	—	1.00E+00	µg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	15.3	—	—	1.50E+01	µg/L	J	J	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	15	—	—	1.50E+01	µg/L	J	J	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	16.8	—	—	1.50E+01	µg/L	J	J	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	15.9	—	—	1.50E+01	µg/L	J	J	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	16	—	—	1.50E+01	µg/L	J	J	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	16.9	—	—	1.50E+01	µg/L	J	J	11-237	CAPA-10-26931	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.58	—	—	2.00E+00	µg/L	J	J	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.27	—	—	2.00E+00	µg/L	J	J	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.1	—	—	2.00E+00	µg/L	J	J	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.4	—	—	2.00E+00	µg/L	J	J	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	11-237	CAPA-10-26931	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	205	—	—	3.00E+01	µg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	36.1	—	—	3.00E+01	µg/L	J	J	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	163	—	—	3.00E+01	µg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	54.9	—	—	3.00E+01	µg/L	J	J	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	137	—	—	3.00E+01	µg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	13.9	—	—	2.00E+00	µg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	2.75	—	—	2.00E+00	µg/L	J	J	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	10.4	—	—	2.00E+00	µg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	7.42	—	—	2.00E+00	µg/L	J	J	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	9.83	—	—	2.00E+00	µg/L	J	J	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.1	—	—	1.70E-01	µg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.08	—	—	1.70E-01	µg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.2	—	—	1.70E-01	µg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.16	—	—	1.70E-01	µg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.06	—	—	1.00E-01	µg/L	—	U	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.24	—	—	1.70E-01	µg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.03	—	—	1.70E-01	µg/L	—	—	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.23	—	—	1.70E-01	µg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.18	—	—	1.70E-01	µg/L	—	—	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	1.06	—	—	1.00E-01	µg/L	—	U	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.85	—	—	5.00E-01	µg/L	J	J	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.596	—	—	5.00E-01	µg/L	J	J	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.724	—	—	5.00E-01	µg/L	J	J	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.08	—	—	5.00E-01	µg/L	J	J	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.644	—	—	5.00E-01	µg/L	J	J	11-237	CAPA-10-26932	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.56	—	—	5.00E-01	µg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.685	—	—	5.00E-01	µg/L	J	J	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.45	—	—	5.00E-01	µg/L	J	J	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.06	—	—	5.00E-01	µg/L	J	J	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.782	—	—	5.00E-01	µg/L	J	J	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	51.8	—	—	5.30E-02	mg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	53.1	—	—	5.30E-02	mg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	50.7	—	—	5.30E-02	mg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	51.1	—	—	5.30E-02	mg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	51.9	—	—	5.30E-02	mg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	161	—	—	1.00E+00	µg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	164	—	—	1.00E+00	µg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	158	—	—	1.00E+00	µg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	169	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	168	—	—	1.00E+00	µg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	170	—	—	1.00E+00	µg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	167	—	—	1.00E+00	µg/L	—	—	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	160	—	—	1.00E+00	µg/L	—	—	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	164	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	167	—	—	1.00E+00	µg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.877	—	—	6.70E-02	µg/L	—	—	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.737	—	—	6.70E-02	µg/L	—	—	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.784	—	—	6.70E-02	µg/L	—	—	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.968	—	—	6.70E-02	µg/L	—	—	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.682	—	—	5.00E-02	µg/L	—	—	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.892	—	—	6.70E-02	µg/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.687	—	—	6.70E-02	µg/L	—	—	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.814	—	—	6.70E-02	µg/L	—	—	11-2231	CAPA-11-9568	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.956	—	—	6.70E-02	µg/L	—	—	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.743	—	—	5.00E-02	µg/L	—	—	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	2.47	—	—	1.00E+00	µg/L	J	J	12-283	CAPA-12-1114	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	2.85	—	—	1.00E+00	µg/L	J	J	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	2.97	—	—	1.00E+00	µg/L	J	J	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.27	—	—	1.00E+00	µg/L	J	J	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	2.67	—	—	1.00E+00	µg/L	J	J	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	2.86	—	—	1.00E+00	µg/L	J	J	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3	—	—	1.00E+00	µg/L	J	J	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.55	—	—	1.00E+00	µg/L	J	J	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	2.99	—	—	1.00E+00	µg/L	J	J	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	2.48	—	—	1.00E+00	µg/L	J	J	11-237	CAPA-10-26931	GELC
R-23i	400.3	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2928	CAPA-11-22841	GELC
R-23i	400.3	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2231	CAPA-11-9570	GELC
R-23i	400.3	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	4.96	—	—	3.30E+00	µg/L	J	J	11-1105	CAPA-11-2957	GELC
R-23i	400.3	10/21/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	5.71	—	—	3.30E+00	µg/L	J	J	11-237	CAPA-10-26932	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	5.37	—	—	3.30E+00	µg/L	J	J	12-283	CAPA-12-1113	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	6.19	—	—	3.30E+00	µg/L	J	J	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2231	CAPA-11-9568	GELC
R-23i	400.3	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	6.08	—	—	3.30E+00	µg/L	J	J	11-1105	CAPA-11-2958	GELC
R-23i	400.3	10/21/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	9.31	—	—	3.30E+00	µg/L	J	J	11-237	CAPA-10-26931	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00223	1.30E-03	3.50E-02	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0033	1.43E-03	6.20E-02	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000413	9.33E-04	2.60E-02	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00879	1.37E-03	2.50E-02	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0025	9.00E-04	4.90E-02	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.896	4.67E-01	5.00E+00	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.211	5.00E-01	4.90E+00	—	pCi/L	U	U	10-4078	CAPA-10-24089	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.04	4.67E-01	4.00E+00	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.719	2.90E-01	2.90E+00	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.72	4.33E-01	5.00E+00	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.9	4.33E-01	5.20E+00	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-2.9	6.33E-01	5.10E+00	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.0855	4.33E-01	4.20E+00	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.663	2.87E-01	2.70E+00	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.67	4.00E-01	4.60E+00	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.49	2.67E-01	2.30E+00	—	pCi/L	U	UJ	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.14	2.37E-01	2.10E+00	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.616	2.33E-01	2.60E+00	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.87	3.33E-01	2.10E+00	—	pCi/L	—	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.14	3.33E-01	2.90E+00	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.78	2.67E-01	2.10E+00	—	pCi/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.72	3.33E-01	2.90E+00	—	pCi/L	—	—	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	4.4	3.67E-01	2.80E+00	—	pCi/L	—	—	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	5.12	3.20E-01	2.40E+00	—	pCi/L	—	—	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.4	3.17E-01	2.70E+00	—	pCi/L	—	—	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	4.37	9.67E-01	1.10E+01	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	1.16	1.17E+00	1.20E+01	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-4.33	8.67E-01	7.70E+00	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	12.1	2.03E+00	2.00E+01	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	5.12	3.33E+00	3.20E+01	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0113	3.33E-03	2.60E-02	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-4.69E-10	1.30E-03	2.20E-02	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00413	2.40E-03	3.10E-02	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0138	2.17E-03	4.00E-02	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0044	1.03E-03	3.20E-02	—	pCi/L	U	U	10-804	CAPA-10-6787	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00226	1.07E-03	3.60E-02	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00197	1.97E-03	3.20E-02	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00413	2.17E-03	2.90E-02	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00918	1.53E-03	2.80E-02	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0022	1.63E-03	3.50E-02	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	34.2	6.33E+00	7.90E+01	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	31.5	7.33E+00	8.10E+01	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	20.5	5.00E+00	5.50E+01	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-4.58	4.33E+00	3.90E+01	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-15.3	5.67E+00	6.10E+01	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.45	4.67E-02	2.50E-01	—	pCi/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.191	3.33E-02	3.00E-01	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	09/10/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.437	6.33E-02	4.80E-01	—	pCi/L	U	U	09-3196	CAPA-09-12239	GELC
R-23i	400.3	06/09/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.906	6.67E-02	2.60E-01	—	pCi/L	—	—	09-2256	CAPA-09-9457	GELC
R-23i	400.3	09/16/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.19	4.33E-02	4.30E-01	—	pCi/L	U	U	08-1961	CAPA-08-15030	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.447	5.67E-02	4.80E-01	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.43	6.67E-02	6.20E-01	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	09/10/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	1.88	1.53E-01	1.10E+00	—	pCi/L	—	—	09-3196	CAPA-09-12239	GELC
R-23i	400.3	06/09/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	1.06	9.00E-02	7.10E-01	—	pCi/L	—	—	09-2256	CAPA-09-9457	GELC
R-23i	400.3	09/16/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.318	5.67E-02	5.40E-01	—	pCi/L	U	U	08-1961	CAPA-08-15030	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-3.27	4.67E-01	4.00E+00	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.296	6.00E-01	6.00E+00	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.306	3.00E-01	3.10E+00	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.491	3.17E-01	3.10E+00	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.13	4.67E-01	3.90E+00	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0593	4.33E-02	4.80E-01	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.431	5.00E-02	4.50E-01	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.178	4.67E-02	4.80E-01	—	pCi/L	U	U	10-3424	CAPA-10-17584	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.201	5.00E-02	4.90E-01	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0618	4.33E-02	4.90E-01	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	EPA:906.0	Tritium	<	78.9	1.80E+01	1.80E+02	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	65.04141	3.29E+00	1.95E+00	—	pCi/L	—	—	11-2264	CAPA-11-9568	ARSL
R-23i	400.3	10/21/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	98.88721	4.97E+00	2.27E+00	—	pCi/L	—	R	11-304	CAPA-10-26931	ARSL
R-23i	400.3	10/21/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	105.27321	5.29E+00	2.39E+00	—	pCi/L	—	—	11-304	CAPA-10-26931	ARSL
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	93.84227	4.71E+00	1.95E+00	—	pCi/L	—	R	10-3425	CAPA-10-17584	ARSL
R-23i	400.3	06/15/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	94.09771	4.71E+00	1.95E+00	—	pCi/L	—	—	10-3425	CAPA-10-17584	ARSL
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	152.3061	1.70E+00	2.87E-01	—	pCi/L	—	—	10-2447	CAPA-10-12894	UMTL
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.497	1.67E-02	6.30E-02	—	pCi/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.371	1.47E-02	8.80E-02	—	pCi/L	—	—	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.455	1.63E-02	6.50E-02	—	pCi/L	—	—	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.515	1.57E-02	3.00E-02	—	pCi/L	—	—	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.37	1.53E-02	1.20E-01	—	pCi/L	—	—	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00308	2.30E-03	3.30E-02	—	pCi/L	U	U	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.015	3.67E-03	4.20E-02	—	pCi/L	U	U	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0111	2.17E-03	4.40E-02	—	pCi/L	U	U	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.021	2.27E-03	2.40E-02	—	pCi/L	U	U	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0136	2.63E-03	6.30E-02	—	pCi/L	U	U	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.287	1.13E-02	2.80E-02	—	pCi/L	—	—	12-283	CAPA-12-1113	GELC
R-23i	400.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.219	1.03E-02	5.30E-02	—	pCi/L	—	—	10-4078	CAPA-10-24089	GELC
R-23i	400.3	06/15/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.186	9.00E-03	4.90E-02	—	pCi/L	—	—	10-3424	CAPA-10-17584	GELC
R-23i	400.3	03/10/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.267	9.33E-03	2.10E-02	—	pCi/L	—	—	10-2402	CAPA-10-12894	GELC
R-23i	400.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.245	1.17E-02	7.50E-02	—	pCi/L	—	—	10-804	CAPA-10-6787	GELC
R-23i	400.3	11/04/11	WG	UF	CS	EQB	VOA	SW-846:8260B	Acetone	—	6.55	—	—	3.50E+00	µg/L	J	J	12-283	CAPA-12-1116	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Acetone	<	10	—	—	3.50E+00	µg/L	U	UJ	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	VOA	SW-846:8260B	Acetone	<	10	—	—	3.50E+00	µg/L	U	U	11-2231	CAPA-11-9568	GELC
R-23i	400.3	11/04/11	WG	UF	CS	EQB	VOA	SW-846:8260B	Butanone[2-]	—	2.53	—	—	1.30E+00	µg/L	J	J	12-283	CAPA-12-1116	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Butanone[2-]	<	5	—	—	1.30E+00	µg/L	U	UJ	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	VOA	SW-846:8260B	Butanone[2-]	<	5	—	—	1.30E+00	µg/L	U	U	11-2231	CAPA-11-9568	GELC
R-23i	400.3	11/04/11	WG	UF	CS	FTB	VOA	SW-846:8260B	Diethyl Ether	—	0.34	—	—	3.00E-01	µg/L	J	J	12-283	CAPA-12-1115	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2231	CAPA-11-9568	GELC
R-23i	400.3	11/04/11	WG	UF	CS	EQB	VOA	SW-846:8260B	Methyl Methacrylate	—	1.03	—	—	1.00E+00	µg/L	J	J	12-283	CAPA-12-1116	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Methyl Methacrylate	<	5	—	—	1.00E+00	µg/L	U	U	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	VOA	SW-846:8260B	Methyl Methacrylate	<	5	—	—	1.00E+00	µg/L	U	U	11-2231	CAPA-11-9568	GELC
R-23i	400.3	11/04/11	WG	UF	CS	EQB	VOA	SW-846:8260B	Methyl-2-pentanone[4-]	—	1.37	—	—	1.30E+00	µg/L	J	J	12-283	CAPA-12-1116	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Methyl-2-pentanone[4-]	<	5	—	—	1.30E+00	µg/L	U	U	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	VOA	SW-846:8260B	Methyl-2-pentanone[4-]	<	5	—	—	1.30E+00	µg/L	U	U	11-2231	CAPA-11-9568	GELC
R-23i	400.3	11/04/11	WG	UF	CS	EQB	VOA	SW-846:8260B	Toluene	—	4.64	—	—	2.50E-01	µg/L	—	—	12-283	CAPA-12-1116	GELC
R-23i	400.3	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Toluene	<	1	—	—	2.50E-01	µg/L	U	U	11-2928	CAPA-11-22843	GELC
R-23i	400.3	04/28/11	WG	UF	CS	—	VOA	SW-846:8260B	Toluene	<	0.28	—	—	2.50E-01	µg/L	J	U	11-2231	CAPA-11-9568	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	79.3	—	—	7.30E-01	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	80.2	—	—	7.30E-01	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	77	—	—	7.30E-01	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	80.4	—	—	7.30E-01	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	83.9	—	—	7.30E-01	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.9	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.3	—	—	5.00E-02	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.7	—	—	5.00E-02	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.9	—	—	5.00E-02	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	19.9	—	—	5.00E-02	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.7	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	22.3	—	—	5.00E-02	mg/L	—	—	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.7	—	—	5.00E-02	mg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.6	—	—	5.00E-02	mg/L	—	—	11-1130	CAPA-11-2962	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.3	—	—	5.00E-02	mg/L	—	—	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	7.6	—	—	6.60E-02	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	7.97	—	—	6.60E-02	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	7.76	—	—	6.60E-02	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	8.2	—	—	6.60E-02	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	7.88	—	—	6.60E-02	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.26	—	—	3.30E-02	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.205	—	—	3.30E-02	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.233	—	—	3.30E-02	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.21	—	—	3.30E-02	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.186	—	—	3.30E-02	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	78	—	—	4.50E-01	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	80.1	—	—	4.50E-01	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	75.5	—	—	4.50E-01	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	75.3	—	—	4.50E-01	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	72.8	—	—	3.50E-01	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	76.9	—	—	4.50E-01	mg/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	79.7	—	—	4.50E-01	mg/L	—	—	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	75.5	—	—	4.50E-01	mg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	78	—	—	4.50E-01	mg/L	—	—	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	74.1	—	—	3.50E-01	mg/L	—	—	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.66	—	—	1.10E-01	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.89	—	—	1.10E-01	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.81	—	—	1.10E-01	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.62	—	—	1.10E-01	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.63	—	—	8.50E-02	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.52	—	—	1.10E-01	mg/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.81	—	—	1.10E-01	mg/L	—	—	11-2932	CAPA-11-22677	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.76	—	—	1.10E-01	mg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.85	—	—	1.10E-01	mg/L	—	—	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.66	—	—	8.50E-02	mg/L	—	—	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.851	—	—	1.00E-01	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.89	—	—	5.00E-02	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.635	—	—	1.00E-02	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.77	—	—	5.00E-02	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.883	—	—	1.00E-01	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.253	—	—	5.00E-02	µg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.249	—	—	5.00E-02	µg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.241	—	—	5.00E-02	µg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.262	—	—	5.00E-02	µg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.252	—	—	5.00E-02	µg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.59	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.58	—	—	5.00E-02	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.35	—	—	5.00E-02	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.57	—	—	5.00E-02	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.56	—	—	5.00E-02	mg/L	—	J	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.55	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.58	—	—	5.00E-02	mg/L	—	—	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.42	—	—	5.00E-02	mg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.66	—	—	5.00E-02	mg/L	—	—	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.62	—	—	5.00E-02	mg/L	—	J	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.1	—	—	1.00E-01	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-190	CAPA-10-26946	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.7	—	—	1.00E-01	mg/L	—	—	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	203	—	—	1.00E+00	µS/cm	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	199	—	—	1.00E+00	µS/cm	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	203	—	—	1.00E+00	µS/cm	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	204	—	—	1.00E+00	µS/cm	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	206	—	—	1.00E+00	µS/cm	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.57	—	—	1.00E-01	mg/L	—	J+	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.38	—	—	1.00E-01	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.75	—	—	1.00E-01	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.92	—	—	1.00E-01	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.71	—	—	1.00E-01	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	146	—	—	3.40E+00	mg/L	—	J	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	140	—	—	3.40E+00	mg/L	—	J	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	143	—	—	2.40E+00	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	128	—	—	2.40E+00	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	147	—	—	2.40E+00	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.08	—	—	1.00E-02	SU	H	J-	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.16	—	—	1.00E-02	SU	H	J-	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.09	—	—	1.00E-02	SU	H	J-	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.15	—	—	1.00E-02	SU	H	J-	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.17	—	—	1.00E-02	SU	H	J-	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	2.11	—	—	1.70E+00	µg/L	J	J	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	2.28	—	—	1.70E+00	µg/L	J	J	11-2284	CAPA-11-9573	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.50E+00	µg/L	U	U	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	2.34	—	—	1.70E+00	µg/L	J	J	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	3.03	—	—	1.70E+00	µg/L	J	J	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.50E+00	µg/L	U	U	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.77	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.99	—	—	1.00E+00	µg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.88	—	—	1.00E+00	µg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	9.34	—	—	1.00E+00	µg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	9.76	—	—	1.00E+00	µg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	9.24	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	8.81	—	—	1.00E+00	µg/L	—	—	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	8.82	—	—	1.00E+00	µg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	9.64	—	—	1.00E+00	µg/L	—	—	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	10.2	—	—	1.00E+00	µg/L	—	—	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.69	—	—	1.70E-01	µg/L	—	J	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.62	—	—	1.70E-01	µg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.59	—	—	1.70E-01	µg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.65	—	—	1.70E-01	µg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.86	—	—	1.00E-01	µg/L	—	U	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.72	—	—	1.70E-01	µg/L	—	J	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.64	—	—	1.70E-01	µg/L	—	—	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.68	—	—	1.70E-01	µg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.69	—	—	1.70E-01	µg/L	—	—	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	1.85	—	—	1.00E-01	µg/L	—	U	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.83	—	—	5.00E-01	µg/L	J	J	12-133	CAPA-12-1117	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.94	—	—	5.00E-01	µg/L	J	J	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.553	—	—	5.00E-01	µg/L	J	J	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.908	—	—	5.00E-01	µg/L	J	J	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.754	—	—	5.00E-01	µg/L	J	J	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.814	—	—	5.00E-01	µg/L	J	J	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.87	—	—	5.00E-01	µg/L	J	J	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.804	—	—	5.00E-01	µg/L	J	J	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.04	—	—	5.00E-01	µg/L	J	J	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.707	—	—	5.00E-01	µg/L	J	J	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	43.8	—	—	5.30E-02	mg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	45.4	—	—	5.30E-02	mg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	40.9	—	—	5.30E-02	mg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	43.2	—	—	5.30E-02	mg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	39.5	—	—	5.30E-02	mg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	97.1	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	98.4	—	—	1.00E+00	µg/L	—	—	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	90.9	—	—	1.00E+00	µg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	92.5	—	—	1.00E+00	µg/L	—	—	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	92.1	—	—	1.00E+00	µg/L	—	—	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	96.8	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	97.8	—	—	1.00E+00	µg/L	—	—	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	90.6	—	—	1.00E+00	µg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	97.3	—	—	1.00E+00	µg/L	—	—	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	94.5	—	—	1.00E+00	µg/L	—	—	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.653	—	—	6.70E-02	µg/L	—	—	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	<	0.713	—	—	6.70E-02	µg/L	—	U	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.706	—	—	6.70E-02	µg/L	—	—	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.784	—	—	6.70E-02	µg/L	—	—	11-1130	CAPA-11-2963	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	<	0.754	—	—	5.00E-02	µg/L	—	U	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.662	—	—	6.70E-02	µg/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.753	—	—	6.70E-02	µg/L	—	U	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.734	—	—	6.70E-02	µg/L	—	—	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.822	—	—	6.70E-02	µg/L	—	—	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.747	—	—	5.00E-02	µg/L	—	U	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.14	—	—	1.00E+00	µg/L	J	J	12-133	CAPA-12-1117	GELC
R-23i	470.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.19	—	—	1.00E+00	µg/L	J	J	11-2932	CAPA-11-22679	GELC
R-23i	470.2	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.45	—	—	1.00E+00	µg/L	J	J	11-2284	CAPA-11-9573	GELC
R-23i	470.2	01/18/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.31	—	—	1.00E+00	µg/L	J	J	11-1130	CAPA-11-2963	GELC
R-23i	470.2	10/18/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.33	—	—	1.00E+00	µg/L	J	J	11-190	CAPA-10-26946	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.38	—	—	1.00E+00	µg/L	J	J	12-133	CAPA-12-1119	GELC
R-23i	470.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.57	—	—	1.00E+00	µg/L	J	J	11-2932	CAPA-11-22677	GELC
R-23i	470.2	05/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.24	—	—	1.00E+00	µg/L	J	J	11-2284	CAPA-11-9574	GELC
R-23i	470.2	01/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.55	—	—	1.00E+00	µg/L	J	J	11-1130	CAPA-11-2962	GELC
R-23i	470.2	10/18/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.41	—	—	1.00E+00	µg/L	J	J	11-190	CAPA-10-26945	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0	9.33E-04	3.20E-02	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00928	1.60E-03	3.70E-02	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0033	1.50E-03	2.20E-02	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0000876	7.67E-04	3.10E-02	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00285	5.33E-04	3.00E-02	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.669	4.67E-01	5.30E+00	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.342	3.23E-01	3.20E+00	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.131	3.67E-01	3.80E+00	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.846	2.50E-01	2.30E+00	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.296	4.67E-01	4.80E+00	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.07	5.00E-01	6.10E+00	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.14	3.23E-01	3.60E+00	—	pCi/L	U	U	10-3999	CAPA-10-24083	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.35	4.00E-01	3.80E+00	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.81	2.53E-01	2.60E+00	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.92	5.00E-01	4.20E+00	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.31	2.60E-01	2.40E+00	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.615	2.03E-01	2.30E+00	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.63	3.07E-01	2.80E+00	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.579	2.17E-01	2.40E+00	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.801	1.53E-01	3.00E+00	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	5.64	3.67E-01	2.20E+00	—	pCi/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.17	3.00E-01	2.80E+00	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.17	2.47E-01	2.10E+00	—	pCi/L	—	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.79	2.97E-01	2.70E+00	—	pCi/L	—	—	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.01	2.43E-01	2.00E+00	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.755	1.03E+00	1.10E+01	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.511	6.67E-01	6.70E+00	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.93	8.67E-01	8.50E+00	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-14.5	1.93E+00	1.60E+01	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-12.8	3.30E+00	3.10E+01	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0101	1.63E-03	3.50E-02	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00207	7.00E-04	1.80E-02	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00223	1.07E-03	3.40E-02	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00658	2.20E-03	3.80E-02	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0125	4.00E-03	3.70E-02	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00605	1.77E-03	3.40E-02	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.0062	1.53E-03	3.00E-02	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00223	1.67E-03	3.10E-02	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00219	2.20E-03	2.70E-02	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.01	2.07E-03	4.00E-02	—	pCi/L	U	U	10-775	CAPA-10-6151	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	18.4	5.67E+00	4.50E+01	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	49.7	4.00E+00	5.00E+01	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-10.9	5.67E+00	5.70E+01	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-8.69	3.67E+00	3.60E+01	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	22.8	6.33E+00	6.60E+01	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.0746	5.33E-02	6.00E-01	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.217	5.00E-02	5.00E-01	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	09/08/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	1.35	1.30E-01	6.50E-01	—	pCi/L	—	—	09-3171	CAPA-09-12244	GELC
R-23i	470.2	09/16/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.502	6.33E-02	5.40E-01	—	pCi/L	U	U	08-1961	CAPA-08-15011	GELC
R-23i	470.2	03/14/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.347	4.67E-02	4.10E-01	—	pCi/L	U	U	08-813	CAPA-08-11023	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.275	8.00E-02	8.20E-01	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.522	7.00E-02	5.80E-01	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	09/08/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	-0.244	7.00E-02	8.90E-01	—	pCi/L	U	U	09-3171	CAPA-09-12244	GELC
R-23i	470.2	09/16/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.138	7.00E-02	7.20E-01	—	pCi/L	U	U	08-1961	CAPA-08-15011	GELC
R-23i	470.2	03/14/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.22	9.00E-02	9.30E-01	—	pCi/L	U	U	08-813	CAPA-08-11023	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.17	5.00E-01	5.10E+00	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.11	3.67E-01	3.80E+00	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.275	3.67E-01	3.90E+00	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.559	2.60E-01	2.60E+00	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.565	5.00E-01	4.90E+00	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0162	4.67E-02	5.00E-01	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.135	4.67E-02	5.00E-01	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.059	4.67E-02	4.80E-01	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.177	4.33E-02	4.90E-01	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.103	4.67E-02	4.90E-01	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	21.48	1.12E+00	2.19E+00	—	pCi/L	—	—	12-171	CAPA-12-1119	ARSL
R-23i	470.2	05/03/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	19.44537	1.04E+00	2.78E+00	—	pCi/L	—	—	11-2438	CAPA-11-9574	ARSL
R-23i	470.2	10/18/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	30.68473	1.58E+00	2.43E+00	—	pCi/L	—	R	11-195	CAPA-10-26945	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	470.2	10/18/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	30.36543	1.56E+00	2.43E+00	—	pCi/L	—	—	11-195	CAPA-10-26945	ARSL
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	21.74433	1.12E+00	1.66E+00	—	pCi/L	—	R	10-3479	CAPA-10-17577	ARSL
R-23i	470.2	06/17/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	21.48889	1.12E+00	1.66E+00	—	pCi/L	—	—	10-3479	CAPA-10-17577	ARSL
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	30.6528	3.19E-01	2.87E-01	—	pCi/L	—	—	10-2447	CAPA-10-12899	UMTL
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.417	1.43E-02	3.70E-02	—	pCi/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.564	2.17E-02	1.20E-01	—	pCi/L	—	—	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.484	1.67E-02	5.60E-02	—	pCi/L	—	—	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.685	2.13E-02	4.30E-02	—	pCi/L	—	—	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.524	2.10E-02	1.40E-01	—	pCi/L	—	—	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00551	2.27E-03	2.70E-02	—	pCi/L	U	U	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0102	3.33E-03	5.60E-02	—	pCi/L	U	U	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0284	3.23E-03	3.80E-02	—	pCi/L	U	U	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0241	2.90E-03	3.40E-02	—	pCi/L	U	U	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0217	3.67E-03	7.50E-02	—	pCi/L	U	U	10-775	CAPA-10-6151	GELC
R-23i	470.2	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.196	8.67E-03	4.40E-02	—	pCi/L	—	—	12-133	CAPA-12-1119	GELC
R-23i	470.2	08/04/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.313	1.47E-02	7.20E-02	—	pCi/L	—	—	10-3999	CAPA-10-24083	GELC
R-23i	470.2	06/17/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.238	1.00E-02	4.20E-02	—	pCi/L	—	—	10-3451	CAPA-10-17577	GELC
R-23i	470.2	03/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.344	1.27E-02	3.10E-02	—	pCi/L	—	—	10-2393	CAPA-10-12899	GELC
R-23i	470.2	12/02/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.242	1.23E-02	9.00E-02	—	pCi/L	—	—	10-775	CAPA-10-6151	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	77.7	—	—	7.30E-01	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	77	—	—	7.30E-01	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	76.5	—	—	7.30E-01	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	77.2	—	—	7.30E-01	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	85.9	—	—	7.30E-01	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0895	—	—	6.60E-02	mg/L	J	J-	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0878	—	—	6.60E-02	mg/L	J	J	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.118	—	—	6.60E-02	mg/L	J	J	11-1198	CAPA-11-2966	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.4	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.6	—	—	5.00E-02	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.2	—	—	5.00E-02	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	21	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	19.8	—	—	5.00E-02	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.9	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.8	—	—	5.00E-02	mg/L	—	—	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	21.8	—	—	5.00E-02	mg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.6	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	19.6	—	—	5.00E-02	mg/L	—	—	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	7.86	—	—	6.60E-02	mg/L	—	J-	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	8.25	—	—	6.60E-02	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	8.12	—	—	6.60E-02	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	8.27	—	—	6.60E-02	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	8.29	—	—	6.60E-02	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.222	—	—	3.30E-02	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.207	—	—	3.30E-02	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.195	—	—	3.30E-02	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.189	—	—	3.30E-02	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.194	—	—	3.30E-02	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	73.7	—	—	4.50E-01	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	74.6	—	—	4.50E-01	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	76.8	—	—	4.50E-01	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	76.3	—	—	4.50E-01	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	72.8	—	—	3.50E-01	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	75.2	—	—	4.50E-01	mg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	75.7	—	—	4.50E-01	mg/L	—	—	11-2978	CAPA-11-22845	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	79.7	—	—	4.50E-01	mg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	75.2	—	—	4.50E-01	mg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	72	—	—	3.50E-01	mg/L	—	—	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.5	—	—	1.10E-01	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.66	—	—	1.10E-01	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.82	—	—	1.10E-01	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.81	—	—	1.10E-01	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.67	—	—	8.50E-02	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.6	—	—	1.10E-01	mg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.77	—	—	1.10E-01	mg/L	—	—	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	6.11	—	—	1.10E-01	mg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.74	—	—	1.10E-01	mg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.62	—	—	8.50E-02	mg/L	—	—	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.95	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.0341	—	—	1.00E-02	mg/L	J	J	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.787	—	—	1.00E-01	mg/L	—	J-	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.795	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.925	—	—	1.00E-01	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.31	—	—	5.00E-02	µg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.257	—	—	5.00E-02	µg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.258	—	—	5.00E-02	µg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.279	—	—	5.00E-02	µg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.253	—	—	5.00E-02	µg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.45	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.69	—	—	5.00E-02	mg/L	—	J	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.67	—	—	5.00E-02	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.73	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.6	—	—	5.00E-02	mg/L	—	J	11-190	CAPA-10-26950	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.48	—	—	5.00E-02	mg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.72	—	—	5.00E-02	mg/L	—	J	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.74	—	—	5.00E-02	mg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.73	—	—	5.00E-02	mg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.58	—	—	5.00E-02	mg/L	—	J	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.2	—	—	1.00E-01	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.1	—	—	1.00E-01	mg/L	—	—	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	195	—	—	1.00E+00	µS/cm	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	194	—	—	1.00E+00	µS/cm	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	201	—	—	1.00E+00	µS/cm	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.42	—	—	1.00E-01	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.38	—	—	1.00E-01	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.53	—	—	1.00E-01	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.66	—	—	1.00E-01	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.48	—	—	1.00E-01	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	144	—	—	3.40E+00	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	3.40E+00	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	146	—	—	2.40E+00	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	154	—	—	2.40E+00	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	143	—	—	2.40E+00	mg/L	—	—	11-190	CAPA-10-26950	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.05	—	—	3.30E-01	mg/L	—	—	12-186	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.47	—	—	3.30E-01	mg/L	J	J	11-2977	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.708	—	—	3.30E-01	mg/L	J	J	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.681	—	—	3.30E-01	mg/L	J	J	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.741	—	—	3.30E-01	mg/L	J	J	11-189	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.19	—	—	1.00E-02	SU	H	J-	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.15	—	—	1.00E-02	SU	H	J-	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.02	—	—	1.00E-02	SU	H	J-	11-2091	CAPA-11-9576	GELC
R-23i	524	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	7.42	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	7.17	—	—	1.00E+00	µg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	7.51	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.46	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.29	—	—	1.00E+00	µg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	7.19	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	7.36	—	—	1.00E+00	µg/L	—	—	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	7.78	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	8.89	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	8.24	—	—	1.00E+00	µg/L	—	—	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.23	—	—	2.00E+00	µg/L	J	J	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	4.96	—	—	2.00E+00	µg/L	J	U	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.61	—	—	2.00E+00	µg/L	J	J	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.39	—	—	2.50E+00	µg/L	J	J	11-190	CAPA-10-26950	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	5.04	—	—	2.00E+00	µg/L	J	U	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.26	—	—	2.00E+00	µg/L	J	J	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.98	—	—	2.00E+00	µg/L	J	J	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.15	—	—	2.50E+00	µg/L	J	J	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.61	—	—	1.70E-01	µg/L	—	—	12-187	CAPA-12-1122	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	07/29/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.37	—	—	1.70E-01	µg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.34	—	—	1.70E-01	µg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.54	—	—	1.70E-01	µg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.63	—	—	1.00E-01	µg/L	—	U	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.48	—	—	1.70E-01	µg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.4	—	—	1.70E-01	µg/L	—	—	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.37	—	—	1.70E-01	µg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.52	—	—	1.70E-01	µg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	1.6	—	—	1.00E-01	µg/L	—	U	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.986	—	—	5.00E-01	µg/L	J	J	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.06	—	—	5.00E-01	µg/L	J	J	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.08	—	—	5.00E-01	µg/L	J	J	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	2.33	—	—	5.00E-01	µg/L	—	U	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.21	—	—	5.00E-01	µg/L	J	J	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.03	—	—	5.00E-01	µg/L	J	J	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.06	—	—	5.00E-01	µg/L	J	J	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.12	—	—	5.00E-01	µg/L	J	J	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	2.72	—	—	5.00E-01	µg/L	—	U	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.15	—	—	5.00E-01	µg/L	J	J	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	43.1	—	—	5.30E-02	mg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	43.3	—	—	5.30E-02	mg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	40.5	—	—	5.30E-02	mg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	46.9	—	—	5.30E-02	mg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	41.1	—	—	5.30E-02	mg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	90.7	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	91.2	—	—	1.00E+00	µg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	90.9	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	96	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2966	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	10/18/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	90.1	—	—	1.00E+00	µg/L	—	—	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	92.3	—	—	1.00E+00	µg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	91.2	—	—	1.00E+00	µg/L	—	—	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	93.7	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	94.3	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	89.1	—	—	1.00E+00	µg/L	—	—	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.586	—	—	6.70E-02	µg/L	—	—	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.561	—	—	6.70E-02	µg/L	—	—	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.55	—	—	6.70E-02	µg/L	—	—	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.588	—	—	6.70E-02	µg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	<	0.676	—	—	5.00E-02	µg/L	—	U	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.552	—	—	6.70E-02	µg/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.587	—	—	6.70E-02	µg/L	—	—	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.53	—	—	6.70E-02	µg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.601	—	—	6.70E-02	µg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.616	—	—	5.00E-02	µg/L	—	U	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.34	—	—	1.00E+00	µg/L	J	J	12-187	CAPA-12-1122	GELC
R-23i	524	07/29/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	4.83	—	—	1.00E+00	µg/L	J	U	11-2978	CAPA-11-22847	GELC
R-23i	524	04/18/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.69	—	—	1.00E+00	µg/L	J	J	11-2091	CAPA-11-9576	GELC
R-23i	524	01/24/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.13	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2966	GELC
R-23i	524	10/18/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.65	—	—	1.00E+00	µg/L	J	J	11-190	CAPA-10-26950	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.75	—	—	1.00E+00	µg/L	J	J	12-187	CAPA-12-1121	GELC
R-23i	524	07/29/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	4.92	—	—	1.00E+00	µg/L	J	U	11-2978	CAPA-11-22845	GELC
R-23i	524	04/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.41	—	—	1.00E+00	µg/L	—	—	11-2091	CAPA-11-9575	GELC
R-23i	524	01/24/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.39	—	—	1.00E+00	µg/L	—	—	11-1198	CAPA-11-2965	GELC
R-23i	524	10/18/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.57	—	—	1.00E+00	µg/L	J	J	11-190	CAPA-10-26948	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00342	8.00E-04	2.70E-02	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0101	1.47E-03	3.90E-02	—	pCi/L	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00984	1.27E-03	2.00E-02	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00447	1.07E-03	3.00E-02	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000687	6.00E-04	3.20E-02	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.52	5.67E-01	5.40E+00	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.375	4.00E-01	4.00E+00	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.16	4.00E-01	3.70E+00	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.457	6.00E-01	5.60E+00	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.295	4.67E-01	4.60E+00	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.6	5.67E-01	7.50E+00	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.14	3.67E-01	3.30E+00	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.351	4.00E-01	3.70E+00	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.148	5.33E-01	5.20E+00	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.17	5.33E-01	5.80E+00	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.36	2.67E-01	2.30E+00	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.0806	1.60E-01	2.30E+00	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.787	1.70E-01	2.80E+00	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.989	2.23E-01	2.10E+00	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.01	3.27E-01	2.90E+00	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.943	2.23E-01	2.20E+00	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.68	3.07E-01	2.60E+00	—	pCi/L	—	—	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.26	2.47E-01	2.40E+00	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	4.53	3.13E-01	2.40E+00	—	pCi/L	—	—	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.79	2.57E-01	2.30E+00	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.67	9.67E-01	9.90E+00	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-4.02	7.33E-01	6.50E+00	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.0543	8.00E-01	7.60E+00	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.54	3.67E+00	3.50E+01	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-13.9	4.00E+00	3.40E+01	—	pCi/L	U	U	10-740	CAPA-10-6863	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00866	2.90E-03	5.00E-02	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00625	1.40E-03	1.90E-02	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00194	6.33E-04	2.90E-02	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0135	2.13E-03	3.90E-02	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00216	2.97E-03	3.20E-02	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00577	1.37E-03	4.90E-02	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00625	1.20E-03	3.00E-02	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.60E-03	2.70E-02	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00449	1.07E-03	2.70E-02	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-2.58E-10	1.03E-03	3.40E-02	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	5.65	7.33E+00	8.70E+01	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	30.3	4.00E+00	4.50E+01	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	34.9	4.67E+00	5.40E+01	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-4.35	7.67E+00	7.60E+01	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-44.5	6.00E+00	5.30E+01	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.305	4.00E-02	3.10E-01	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.657	6.67E-02	5.10E-01	—	pCi/L	—	—	10-740	CAPA-10-6863	GELC
R-23i	524	09/09/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.157	4.33E-02	4.70E-01	—	pCi/L	U	U	09-3180	CAPA-09-12246	GELC
R-23i	524	09/15/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.135	4.33E-02	4.50E-01	—	pCi/L	U	U	08-1950	CAPA-08-15018	GELC
R-23i	524	03/14/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.932	7.00E-02	2.60E-01	—	pCi/L	—	—	08-813	CAPA-08-11063	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.173	4.00E-02	4.00E-01	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	1.14	1.23E-01	9.60E-01	—	pCi/L	—	—	10-740	CAPA-10-6863	GELC
R-23i	524	09/09/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.383	9.67E-02	9.70E-01	—	pCi/L	U	U	09-3180	CAPA-09-12246	GELC
R-23i	524	09/15/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.245	6.00E-02	5.80E-01	—	pCi/L	U	U	08-1950	CAPA-08-15018	GELC
R-23i	524	03/14/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.317	6.67E-02	6.40E-01	—	pCi/L	U	U	08-813	CAPA-08-11063	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.71	6.00E-01	7.60E+00	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.519	3.67E-01	3.50E+00	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.0534	3.67E-01	3.50E+00	—	pCi/L	U	U	10-3437	CAPA-10-17580	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.01	5.67E-01	5.30E+00	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.02	4.00E-01	3.40E+00	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0813	4.33E-02	4.60E-01	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.136	4.67E-02	4.80E-01	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.255	5.00E-02	4.80E-01	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0169	4.33E-02	5.10E-01	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.159	4.00E-02	4.80E-01	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	21.96	1.14E+00	2.05E+00	—	pCi/L	—	—	12-244	CAPA-12-1121	ARSL
R-23i	524	04/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	25.16084	1.31E+00	2.33E+00	—	pCi/L	—	—	11-2197	CAPA-11-9575	ARSL
R-23i	524	10/18/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	28.28998	1.44E+00	1.63E+00	—	pCi/L	—	R	11-195	CAPA-10-26948	ARSL
R-23i	524	10/18/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	30.26964	1.53E+00	1.63E+00	—	pCi/L	—	—	11-195	CAPA-10-26948	ARSL
R-23i	524	06/16/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	28.06647	1.44E+00	2.14E+00	—	pCi/L	—	R	10-3479	CAPA-10-17580	ARSL
R-23i	524	06/16/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	25.73558	1.32E+00	2.14E+00	—	pCi/L	—	—	10-3479	CAPA-10-17580	ARSL
R-23i	524	03/08/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	33.5265	3.19E-01	2.87E-01	—	pCi/L	—	—	10-2383	CAPA-10-12853	UMTL
R-23i	524	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.325	1.33E-02	5.40E-02	—	pCi/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.473	1.90E-02	1.20E-01	—	pCi/L	—	—	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.419	1.57E-02	6.40E-02	—	pCi/L	—	—	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.486	1.63E-02	4.30E-02	—	pCi/L	—	—	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.435	1.77E-02	1.30E-01	—	pCi/L	—	—	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.02	3.03E-03	4.00E-02	—	pCi/L	U	U	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0298	4.00E-03	5.50E-02	—	pCi/L	U	U	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0109	2.70E-03	4.30E-02	—	pCi/L	U	U	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0151	2.27E-03	3.40E-02	—	pCi/L	U	U	10-2379	CAPA-10-12853	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.015	3.67E-03	7.00E-02	—	pCi/L	U	U	10-740	CAPA-10-6863	GELC
R-23i	524	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.181	9.33E-03	6.30E-02	—	pCi/L	—	—	12-187	CAPA-12-1121	GELC
R-23i	524	08/04/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.237	1.20E-02	7.00E-02	—	pCi/L	—	—	10-3999	CAPA-10-24086	GELC
R-23i	524	06/16/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.219	1.00E-02	4.80E-02	—	pCi/L	—	—	10-3437	CAPA-10-17580	GELC
R-23i	524	03/08/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.283	1.10E-02	3.10E-02	—	pCi/L	—	—	10-2379	CAPA-10-12853	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-23i	524	12/01/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.182	1.03E-02	8.30E-02	—	pCi/L	—	—	10-740	CAPA-10-6863	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	71.5	—	—	7.30E-01	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	70.2	—	—	7.30E-01	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	68.8	—	—	7.30E-01	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	71.4	—	—	7.30E-01	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	67.7	—	—	7.30E-01	mg/L	—	—	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0218	—	—	1.60E-02	mg/L	J	J+	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	17	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	16	—	—	5.00E-02	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.5	—	—	5.00E-02	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	<	7.82	—	—	5.00E-02	mg/L	—	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	01/25/11	WG	F	RE	—	Geninorg	SW-846:6010B	Calcium	—	16.3	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.8	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.3	—	—	5.00E-02	mg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15.9	—	—	5.00E-02	mg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	16.1	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	01/25/11	WG	UF	RE	—	Geninorg	SW-846:6010B	Calcium	—	15.8	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.83	—	—	6.60E-02	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3	—	—	6.60E-02	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.12	—	—	6.60E-02	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.89	—	—	6.60E-02	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.9	—	—	6.60E-02	mg/L	—	—	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.296	—	—	3.30E-02	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.284	—	—	3.30E-02	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.325	—	—	3.30E-02	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.268	—	—	3.30E-02	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.255	—	—	3.30E-02	mg/L	—	—	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	62	—	—	4.50E-01	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	59.6	—	—	4.50E-01	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	61.9	—	—	4.50E-01	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	29	—	—	4.50E-01	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	61.1	—	—	4.50E-01	mg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	60.8	—	—	4.50E-01	mg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	59.7	—	—	4.50E-01	mg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	60.2	—	—	4.50E-01	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.74	—	—	1.10E-01	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.8	—	—	1.10E-01	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.03	—	—	1.10E-01	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	<	2.31	—	—	1.10E-01	mg/L	—	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	01/25/11	WG	F	RE	—	Geninorg	SW-846:6010B	Magnesium	—	4.99	—	—	1.10E-01	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.65	—	—	1.10E-01	mg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.89	—	—	1.10E-01	mg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.83	—	—	1.10E-01	mg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.84	—	—	1.10E-01	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	01/25/11	WG	UF	RE	—	Geninorg	SW-846:6010B	Magnesium	—	4.79	—	—	1.10E-01	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.979	—	—	1.00E-01	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.03	—	—	5.00E-02	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.664	—	—	1.00E-02	mg/L	—	J-	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.895	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.02	—	—	5.00E-02	mg/L	—	J	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.347	—	—	5.00E-02	µg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.35	—	—	5.00E-02	µg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.355	—	—	5.00E-02	µg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.387	—	—	5.00E-02	µg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.372	—	—	5.00E-02	µg/L	—	J+	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.79	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.83	—	—	5.00E-02	mg/L	—	J	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	J	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	<	8.42	—	—	5.00E-02	mg/L	—	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	01/25/11	WG	F	RE	—	Geninorg	SW-846:6010B	Potassium	—	1.78	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.9	—	—	5.00E-02	mg/L	—	J	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	J	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	01/25/11	WG	UF	RE	—	Geninorg	SW-846:6010B	Potassium	—	1.71	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	<	51.2	—	—	1.00E-01	mg/L	—	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	01/25/11	WG	F	RE	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	01/25/11	WG	UF	RE	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	167	—	—	1.00E+00	µS/cm	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.03	—	—	1.00E-01	mg/L	—	J+	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.92	—	—	1.00E-01	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.61	—	—	1.00E-01	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.2	—	—	1.00E-01	mg/L	—	—	11-1207	CAPA-11-3014	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.25	—	—	1.00E-01	mg/L	—	—	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	151	—	—	3.40E+00	mg/L	—	J	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	3.40E+00	mg/L	—	J	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	143	—	—	2.40E+00	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	149	—	—	2.40E+00	mg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	148	—	—	2.40E+00	mg/L	—	—	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.22	—	—	1.00E-02	SU	H	J-	12-133	CAPA-12-1144	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	3.89	—	—	1.70E+00	µg/L	J	J	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	4.69	—	—	1.70E+00	µg/L	J	J	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	39.2	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	39.3	—	—	1.00E+00	µg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	40.9	—	—	1.00E+00	µg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	<	64.7	—	—	1.00E+00	µg/L	—	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	01/25/11	WG	F	RE	—	Metals	SW-846:6010B	Barium	—	41.8	—	—	1.00E+00	µg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	38.9	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	40.2	—	—	1.00E+00	µg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	39.8	—	—	1.00E+00	µg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	41.2	—	—	1.00E+00	µg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	01/25/11	WG	UF	RE	—	Metals	SW-846:6010B	Barium	—	40.2	—	—	1.00E+00	µg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.36	—	—	1.70E-01	µg/L	—	J	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.16	—	—	1.70E-01	µg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.08	—	—	1.70E-01	µg/L	—	—	11-2258	CAPA-11-9320	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.46	—	—	1.70E-01	µg/L	—	J	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.51	—	—	1.70E-01	µg/L	—	J	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.09	—	—	1.70E-01	µg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.11	—	—	1.70E-01	µg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.47	—	—	1.70E-01	µg/L	—	J	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.31	—	—	5.00E-01	µg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.88	—	—	5.00E-01	µg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.35	—	—	5.00E-01	µg/L	J	J	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.2	—	—	5.00E-01	µg/L	J	J	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.82	—	—	5.00E-01	µg/L	J	J	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.68	—	—	5.00E-01	µg/L	J	J	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.62	—	—	5.00E-01	µg/L	J	J	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.85	—	—	5.00E-01	µg/L	J	J	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	66	—	—	5.30E-02	mg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	65	—	—	5.30E-02	mg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.2	—	—	5.30E-02	mg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	<	39.7	—	—	5.30E-02	mg/L	N	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/14/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	65	—	—	5.30E-02	mg/L	—	—	11-159	CAPA-10-27392	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	79.1	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	76.2	—	—	1.00E+00	µg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	76.6	—	—	1.00E+00	µg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	<	56.2	—	—	1.00E+00	µg/L	E	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	01/25/11	WG	F	RE	—	Metals	SW-846:6010B	Strontium	—	77.7	—	—	1.00E+00	µg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	78	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	77.4	—	—	1.00E+00	µg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	73.3	—	—	1.00E+00	µg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	79.1	—	—	1.00E+00	µg/L	E	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	01/25/11	WG	UF	RE	—	Metals	SW-846:6010B	Strontium	—	75.1	—	—	1.00E+00	µg/L	—	—	11-1207	CAPA-11-3016	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.59	—	—	6.70E-02	µg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.706	—	—	6.70E-02	µg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.551	—	—	6.70E-02	µg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.653	—	—	6.70E-02	µg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.653	—	—	6.70E-02	µg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.653	—	—	6.70E-02	µg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.548	—	—	6.70E-02	µg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.662	—	—	6.70E-02	µg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.18	—	—	1.00E+00	µg/L	J	J	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.39	—	—	1.00E+00	µg/L	J	J	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.35	—	—	1.00E+00	µg/L	J	J	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	4.65	—	—	1.00E+00	µg/L	J	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	01/25/11	WG	F	RE	—	Metals	SW-846:6010B	Vanadium	—	3.07	—	—	1.00E+00	µg/L	J	J	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.22	—	—	1.00E+00	µg/L	J	J	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.57	—	—	1.00E+00	µg/L	J	J	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.87	—	—	1.00E+00	µg/L	J	J	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	2.46	—	—	1.00E+00	µg/L	J	U	11-1207	CAPA-11-3016	GELC
R-32	867.5	01/25/11	WG	UF	RE	—	Metals	SW-846:6010B	Vanadium	—	3.03	—	—	1.00E+00	µg/L	J	J	11-1207	CAPA-11-3016	GELC
R-32	867.5	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	34.4	—	—	3.30E+00	µg/L	—	—	12-133	CAPA-12-1144	GELC
R-32	867.5	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	36.8	—	—	3.30E+00	µg/L	—	—	11-2949	CAPA-11-22693	GELC
R-32	867.5	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	37.2	—	—	3.30E+00	µg/L	—	—	11-2258	CAPA-11-9320	GELC
R-32	867.5	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	29.4	—	—	3.30E+00	µg/L	—	R	11-1207	CAPA-11-3014	GELC
R-32	867.5	01/25/11	WG	F	RE	—	Metals	SW-846:6010B	Zinc	—	40.9	—	—	3.30E+00	µg/L	—	—	11-1207	CAPA-11-3014	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	33.7	—	—	3.30E+00	µg/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	07/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	37.6	—	—	3.30E+00	µg/L	—	—	11-2949	CAPA-11-22695	GELC
R-32	867.5	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	37.3	—	—	3.30E+00	µg/L	—	—	11-2258	CAPA-11-9318	GELC
R-32	867.5	01/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	45.3	—	—	3.30E+00	µg/L	—	—	11-1207	CAPA-11-3016	GELC
R-32	867.5	01/25/11	WG	UF	RE	—	Metals	SW-846:6010B	Zinc	—	42	—	—	3.30E+00	µg/L	—	—	11-1207	CAPA-11-3016	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	HASL-300	Americium-241	<	0.00243	6.67E-04	2.70E-02	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00324	2.40E-03	5.30E-02	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0131	2.03E-03	3.40E-02	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0119	1.70E-03	2.60E-02	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00493	1.20E-03	3.90E-02	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00705	1.10E-03	2.70E-02	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.8	4.00E-01	3.50E+00	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.75	4.00E-01	4.90E+00	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.241	7.67E-01	8.30E+00	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.11	3.10E-01	2.90E+00	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.154	4.67E-01	4.70E+00	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.379	5.00E-01	4.80E+00	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.439	3.33E-01	3.60E+00	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.487	4.33E-01	5.20E+00	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.356	4.67E-01	4.60E+00	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.658	2.63E-01	2.80E+00	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.27	4.33E-01	4.60E+00	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.76	4.33E-01	3.50E+00	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	EPA:900	Gross alpha	<	1.07	2.10E-01	2.00E+00	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	02/26/09	WG	F	CS	—	Rad	EPA:900	Gross alpha	<	1.43	2.13E-01	1.70E+00	—	pCi/L	U	U	09-1032	CAPA-09-4356	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.152	2.23E-01	2.90E+00	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.45	2.63E-01	2.30E+00	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.582	2.13E-01	2.40E+00	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.882	2.00E-01	2.00E+00	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	02/26/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.09	2.37E-01	2.20E+00	—	pCi/L	U	U	09-1032	CAPA-09-4358	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	EPA:900	Gross beta	—	6.34	3.67E-01	2.10E+00	—	pCi/L	—	—	09-2239	CAPA-09-9420	GELC
R-32	867.5	02/26/09	WG	F	CS	—	Rad	EPA:900	Gross beta	—	3.17	2.17E-01	1.60E+00	—	pCi/L	—	—	09-1032	CAPA-09-4356	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.77	3.23E-01	2.90E+00	—	pCi/L	U	U	12-133	CAPA-12-1143	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.698	2.63E-01	2.70E+00	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2	2.13E-01	1.80E+00	—	pCi/L	—	—	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.11	2.23E-01	2.10E+00	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	02/26/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.36	1.83E-01	1.40E+00	—	pCi/L	—	—	09-1032	CAPA-09-4358	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	EPA:901.1	Neptunium-237	<	7.8	4.00E+00	3.70E+01	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.71	8.00E-01	8.30E+00	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.868	8.67E-01	8.90E+00	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-6.17	2.43E+00	2.40E+01	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.265	3.33E+00	3.40E+01	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	24.2	4.00E+00	3.90E+01	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00213	1.23E-03	3.80E-02	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00776	3.33E-03	4.50E-02	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00232	7.67E-04	2.10E-02	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0158	2.10E-03	3.40E-02	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00385	3.67E-03	4.00E-02	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00399	1.17E-03	3.60E-02	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00638	1.60E-03	3.90E-02	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00776	2.27E-03	4.40E-02	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00697	2.03E-03	3.40E-02	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0119	1.63E-03	2.40E-02	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0115	1.57E-03	4.50E-02	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00598	1.50E-03	3.60E-02	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	EPA:901.1	Potassium-40	<	2.15	6.00E+00	6.40E+01	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-33.6	5.33E+00	5.80E+01	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-4.59	6.00E+00	6.40E+01	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-2.25	4.33E+00	3.80E+01	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-8.83	6.00E+00	6.20E+01	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	15.6	6.00E+00	5.90E+01	—	pCi/L	U	U	09-2239	CAPA-09-9418	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.234	4.33E-02	3.60E-01	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0	3.33E-02	4.20E-01	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.169	5.67E-02	6.20E-01	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	09/08/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.316	5.33E-02	4.80E-01	—	pCi/L	U	U	08-1870	CAPA-08-15079	GELC
R-32	867.5	03/04/08	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.448	5.67E-02	4.90E-01	—	pCi/L	U	U	08-743	CAPA-08-11055	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.472	8.00E-02	7.60E-01	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.136	4.33E-02	4.40E-01	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.663	8.67E-02	7.50E-01	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	09/08/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.347	4.67E-02	3.90E-01	—	pCi/L	U	U	08-1870	CAPA-08-15079	GELC
R-32	867.5	03/04/08	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.623	8.00E-02	6.90E-01	—	pCi/L	U	U	08-743	CAPA-08-11055	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.161	3.67E-01	3.60E+00	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.72	3.27E-01	4.20E+00	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.179	4.00E-01	4.10E+00	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.23	2.87E-01	2.50E+00	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.42	4.67E-01	4.40E+00	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.97	4.33E-01	3.50E+00	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	EPA:905.0	Strontium-90	<	0.074	3.67E-02	3.80E-01	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.13	5.00E-02	5.00E-01	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.406	5.00E-02	4.80E-01	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.147	4.67E-02	4.90E-01	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.27	3.07E-02	2.90E-01	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.173	4.33E-02	4.60E-01	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.11	2.17E-01	2.22E+00	—	pCi/L	U	U	12-171	CAPA-12-1143	ARSL
R-32	867.5	07/27/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.05369	2.02E-01	2.08E+00	—	pCi/L	U	U	11-3020	CAPA-11-22695	ARSL
R-32	867.5	05/02/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.30913	2.34E-01	2.36E+00	—	pCi/L	U	U	11-2264	CAPA-11-9318	ARSL
R-32	867.5	01/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.88387	2.34E-01	2.04E+00	—	pCi/L	U	R	11-1211	CAPA-11-3016	ARSL
R-32	867.5	01/25/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.44702	2.02E-01	2.04E+00	—	pCi/L	U	U	11-1211	CAPA-11-3016	ARSL
R-32	867.5	10/14/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.12914	2.77E-01	2.11E+00	—	pCi/L	—	R	11-195	CAPA-10-27391	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-32	867.5	10/14/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.9158	2.34E-01	2.11E+00	—	pCi/L	U	U	11-195	CAPA-10-27391	ARSL
R-32	867.5	06/08/09	WG	F	CS	—	Rad	HASL-300	Uranium-234	—	0.471	1.63E-02	1.00E-01	—	pCi/L	—	—	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.446	1.60E-02	4.50E-02	—	pCi/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.372	1.40E-02	8.00E-02	—	pCi/L	—	—	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.464	1.57E-02	4.10E-02	—	pCi/L	—	—	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.491	1.47E-02	6.20E-02	—	pCi/L	—	—	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.552	1.87E-02	1.10E-01	—	pCi/L	—	—	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0128	3.03E-03	4.70E-02	—	pCi/L	U	U	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00335	2.50E-03	3.30E-02	—	pCi/L	U	U	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0309	3.67E-03	3.80E-02	—	pCi/L	U	U	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0198	2.87E-03	3.20E-02	—	pCi/L	U	U	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0253	2.70E-03	3.10E-02	—	pCi/L	U	U	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.01	3.33E-03	4.90E-02	—	pCi/L	U	U	09-2239	CAPA-09-9418	GELC
R-32	867.5	06/08/09	WG	F	CS	—	Rad	HASL-300	Uranium-238	—	0.208	9.33E-03	4.70E-02	—	pCi/L	—	—	09-2239	CAPA-09-9420	GELC
R-32	867.5	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.219	9.67E-03	5.30E-02	—	pCi/L	—	—	12-133	CAPA-12-1143	GELC
R-32	867.5	08/06/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.181	8.67E-03	4.90E-02	—	pCi/L	—	—	10-4049	CAPA-10-24125	GELC
R-32	867.5	03/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.188	8.33E-03	2.90E-02	—	pCi/L	—	—	10-2393	CAPA-10-12837	GELC
R-32	867.5	08/31/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.246	9.00E-03	3.10E-02	—	pCi/L	—	—	09-3055	CAPA-09-12277	GELC
R-32	867.5	06/08/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.251	1.07E-02	4.90E-02	—	pCi/L	—	—	09-2239	CAPA-09-9418	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.6	—	—	7.30E-01	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.5	—	—	7.30E-01	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.6	—	—	7.30E-01	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.2	—	—	7.30E-01	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57.3	—	—	7.30E-01	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.7	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3017	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.3	—	—	5.00E-02	mg/L	—	—	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12	—	—	5.00E-02	mg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.8	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.27	—	—	6.60E-02	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.26	—	—	6.60E-02	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.44	—	—	6.60E-02	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.21	—	—	6.60E-02	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.26	—	—	6.60E-02	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.277	—	—	3.30E-02	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.283	—	—	3.30E-02	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.324	—	—	3.30E-02	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.259	—	—	3.30E-02	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.256	—	—	3.30E-02	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	42.8	—	—	4.50E-01	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41.6	—	—	4.50E-01	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45.1	—	—	4.50E-01	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.7	—	—	4.50E-01	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41.5	—	—	3.50E-01	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	43.4	—	—	4.50E-01	mg/L	—	—	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.9	—	—	4.50E-01	mg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	45.2	—	—	4.50E-01	mg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.2	—	—	4.50E-01	mg/L	—	—	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	42.3	—	—	3.50E-01	mg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3	—	—	1.10E-01	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.88	—	—	1.10E-01	mg/L	—	—	11-2816	CAPA-11-22887	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.13	—	—	1.10E-01	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.78	—	—	1.10E-01	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.83	—	—	8.50E-02	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.04	—	—	1.10E-01	mg/L	—	—	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.89	—	—	1.10E-01	mg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.13	—	—	1.10E-01	mg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.83	—	—	1.10E-01	mg/L	—	—	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.96	—	—	8.50E-02	mg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.515	—	—	5.00E-02	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	<	0.536	—	—	1.00E-01	mg/L	—	U	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.574	—	—	1.00E-01	mg/L	—	J+	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.486	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.62	—	—	5.00E-02	mg/L	—	J	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.33	—	—	5.00E-02	µg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.332	—	—	5.00E-02	µg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.318	—	—	5.00E-02	µg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.348	—	—	5.00E-02	µg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.38	—	—	5.00E-02	µg/L	—	J+	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.86	—	—	5.00E-02	mg/L	—	J	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.88	—	—	5.00E-02	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.68	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.78	—	—	5.00E-02	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.89	—	—	5.00E-02	mg/L	—	J	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.88	—	—	5.00E-02	mg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	—	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.85	—	—	5.00E-02	mg/L	—	—	11-156	CAPA-10-27394	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.9	—	—	1.00E-01	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12	—	—	1.00E-01	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.2	—	—	1.00E-01	mg/L	—	—	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12	—	—	1.00E-01	mg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.7	—	—	1.00E-01	mg/L	—	—	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	133	—	—	1.00E+00	µS/cm	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	127	—	—	1.00E+00	µS/cm	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	134	—	—	1.00E+00	µS/cm	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	141	—	—	1.00E+00	µS/cm	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	136	—	—	1.00E+00	µS/cm	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.89	—	—	1.00E-01	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.66	—	—	1.00E-01	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.88	—	—	1.00E-01	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.86	—	—	1.00E-01	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.77	—	—	1.00E-01	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	137	—	—	3.40E+00	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	143	—	—	3.40E+00	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	133	—	—	2.40E+00	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	139	—	—	2.40E+00	mg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	2.40E+00	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.035	—	—	1.50E-02	mg/L	J	J	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.05	—	—	1.50E-02	mg/L	U	UJ	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.0381	—	—	1.50E-02	mg/L	J	J	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.05	—	—	1.50E-02	mg/L	U	U	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.045	—	—	1.50E-02	mg/L	J	U	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.03	—	—	1.00E-02	SU	H	J-	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.01	—	—	1.00E-02	SU	H	J-	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.96	—	—	1.00E-02	SU	H	J-	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.02	—	—	1.00E-02	SU	H	J-	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.06	—	—	1.00E-02	SU	H	J-	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.7	—	—	1.00E+00	µg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	30.4	—	—	1.00E+00	µg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.8	—	—	1.00E+00	µg/L	—	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.7	—	—	1.00E+00	µg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	28.8	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.8	—	—	1.00E+00	µg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30	—	—	1.00E+00	µg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.5	—	—	1.00E+00	µg/L	—	—	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	31.7	—	—	1.00E+00	µg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.59	—	—	2.00E+00	µg/L	J	J	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	8.06	—	—	2.00E+00	µg/L	J	J	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.78	—	—	2.00E+00	µg/L	J	J	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.14	—	—	2.00E+00	µg/L	J	J	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.43	—	—	2.50E+00	µg/L	J	J	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.52	—	—	2.00E+00	µg/L	J	J	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	7.31	—	—	2.00E+00	µg/L	J	J	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.82	—	—	2.00E+00	µg/L	J	J	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	21.5	—	—	2.50E+00	µg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2816	CAPA-11-22887	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	32	—	—	3.00E+01	µg/L	J	J	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	34.9	—	—	3.00E+01	µg/L	J	J	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	88.6	—	—	3.00E+01	µg/L	J	J	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	30.1	—	—	3.00E+01	µg/L	J	U	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	163	—	—	3.00E+01	µg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.67	—	—	1.70E-01	µg/L	—	J	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.29	—	—	1.70E-01	µg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.52	—	—	1.70E-01	µg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.82	—	—	1.70E-01	µg/L	—	J	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.58	—	—	1.00E-01	µg/L	—	J	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.65	—	—	1.70E-01	µg/L	—	J	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.29	—	—	1.70E-01	µg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.5	—	—	1.70E-01	µg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.83	—	—	1.70E-01	µg/L	—	J	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.77	—	—	1.00E-01	µg/L	—	J	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.1	—	—	5.30E-02	mg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.1	—	—	5.30E-02	mg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71	—	—	5.30E-02	mg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	<	68.6	—	—	5.30E-02	mg/L	N	U	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.7	—	—	5.30E-02	mg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	53.3	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	50.5	—	—	1.00E+00	µg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	53.3	—	—	1.00E+00	µg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	52.9	—	—	1.00E+00	µg/L	E	—	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	53.8	—	—	1.00E+00	µg/L	—	—	11-156	CAPA-10-27395	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	54.2	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	50.9	—	—	1.00E+00	µg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	53.1	—	—	1.00E+00	µg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	53.4	—	—	1.00E+00	µg/L	E	—	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	54	—	—	1.00E+00	µg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.49	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1177	GELC
R-37	1026	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.88	—	—	1.00E+00	µg/L	—	—	11-2816	CAPA-11-22887	GELC
R-37	1026	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.19	—	—	1.00E+00	µg/L	—	—	11-2183	CAPA-11-9321	GELC
R-37	1026	01/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	4.95	—	—	1.00E+00	µg/L	J	U	11-1207	CAPA-11-3017	GELC
R-37	1026	10/14/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.03	—	—	1.00E+00	µg/L	—	—	11-156	CAPA-10-27395	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.65	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1178	GELC
R-37	1026	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.94	—	—	1.00E+00	µg/L	—	—	11-2816	CAPA-11-22886	GELC
R-37	1026	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.19	—	—	1.00E+00	µg/L	—	—	11-2183	CAPA-11-9322	GELC
R-37	1026	01/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	5.24	—	—	1.00E+00	µg/L	—	U	11-1207	CAPA-11-3019	GELC
R-37	1026	10/14/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.99	—	—	1.00E+00	µg/L	—	—	11-156	CAPA-10-27394	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0053	1.97E-03	2.70E-02	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0033	1.33E-03	4.00E-02	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00851	1.27E-03	2.40E-02	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00807	1.80E-03	4.40E-02	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00121	1.10E-03	3.70E-02	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	3.56	6.00E-01	7.20E+00	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.33	3.67E-01	3.20E+00	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.16	4.67E-01	4.10E+00	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	3.51	4.33E-01	5.00E+00	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	3.33	4.67E-01	5.30E+00	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.08	5.33E-01	5.80E+00	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.505	4.33E-01	3.80E+00	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.479	4.00E-01	4.10E+00	—	pCi/L	U	U	10-3330	CAPA-10-17952	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.27	5.00E-01	4.50E+00	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.234	4.67E-01	4.80E+00	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.36	2.77E-01	2.60E+00	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.47	2.23E-01	1.40E+00	—	pCi/L	—	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.00462	1.77E-01	2.30E+00	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.37	1.90E-01	2.30E+00	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.59	3.67E-01	2.90E+00	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.11	2.53E-01	2.50E+00	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.0108	2.33E-01	2.60E+00	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.63	3.03E-01	3.00E+00	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.612	2.23E-01	2.30E+00	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.25	2.67E-01	2.20E+00	—	pCi/L	—	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	1.86	1.23E+00	1.30E+01	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.994	7.33E-01	7.50E+00	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-3.19	1.00E+00	9.00E+00	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	20.9	3.33E+00	3.40E+01	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-3.75	3.67E+00	3.40E+01	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00581	3.33E-03	3.30E-02	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0183	2.93E-03	2.30E-02	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00409	1.37E-03	3.10E-02	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00376	3.67E-03	4.50E-02	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00215	7.33E-04	3.10E-02	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.0029	1.67E-03	4.60E-02	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.0194	3.23E-03	3.80E-02	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0102	2.27E-03	2.80E-02	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0011	2.37E-03	3.20E-02	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00215	7.00E-04	3.40E-02	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-8.38	7.00E+00	7.80E+01	—	pCi/L	U	U	12-231	CAPA-12-1178	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	29.6	5.00E+00	6.20E+01	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	6.29	5.00E+00	5.60E+01	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-15.4	6.00E+00	5.50E+01	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	4.12	5.33E+00	5.80E+01	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.222	4.67E-02	4.50E-01	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.309	5.33E-02	4.70E-01	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.102	2.57E-02	2.60E-01	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	11/18/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.256	3.67E-02	2.80E-01	—	pCi/L	U	U	10-614	CAMO-10-5483	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.178	4.67E-02	4.90E-01	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.655	7.67E-02	5.90E-01	—	pCi/L	—	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	-0.0863	6.67E-02	8.20E-01	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	11/18/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	1.37	1.27E-01	8.90E-01	—	pCi/L	—	—	10-614	CAMO-10-5483	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.04	6.00E-01	6.10E+00	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.252	3.10E-01	3.10E+00	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.843	3.67E-01	4.10E+00	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.0922	4.33E-01	4.20E+00	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.97	5.00E-01	5.70E+00	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0278	4.00E-02	4.80E-01	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0342	4.33E-02	4.90E-01	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0318	4.00E-02	4.70E-01	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.106	4.33E-02	4.70E-01	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.117	4.33E-02	4.90E-01	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.45	1.97E-01	2.02E+00	—	pCi/L	U	U	12-244	CAPA-12-1178	ARSL
R-37	1026	07/13/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.43685	3.09E-01	3.13E+00	—	pCi/L	U	U	11-2878	CAPA-11-22886	ARSL
R-37	1026	04/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.5544	2.77E-01	2.75E+00	—	pCi/L	U	U	11-2197	CAPA-11-9322	ARSL
R-37	1026	01/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.9158	2.34E-01	2.08E+00	—	pCi/L	U	R	11-1211	CAPA-11-3019	ARSL
R-37	1026	01/25/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.09579	2.02E-01	2.08E+00	—	pCi/L	U	U	11-1211	CAPA-11-3019	ARSL
R-37	1026	10/14/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.44844	2.98E-01	2.33E+00	—	pCi/L	—	R	11-195	CAPA-10-27394	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	1026	10/14/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.94773	2.55E-01	2.33E+00	—	pCi/L	U	U	11-195	CAPA-10-27394	ARSL
R-37	1026	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.344	1.10E-02	4.10E-02	—	pCi/L	—	—	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.345	1.30E-02	7.70E-02	—	pCi/L	—	—	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.322	1.23E-02	5.50E-02	—	pCi/L	—	—	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.473	1.70E-02	5.10E-02	—	pCi/L	—	—	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	1.05	3.23E-02	1.10E-01	—	pCi/L	—	—	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00992	1.77E-03	2.10E-02	—	pCi/L	U	U	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0164	2.47E-03	3.60E-02	—	pCi/L	U	U	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0126	2.97E-03	3.80E-02	—	pCi/L	U	U	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0214	2.97E-03	4.00E-02	—	pCi/L	U	U	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0496	5.00E-03	5.70E-02	—	pCi/L	U	U	10-1021	CAPA-10-6824	GELC
R-37	1026	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.167	6.67E-03	1.80E-02	—	pCi/L	—	—	12-231	CAPA-12-1178	GELC
R-37	1026	08/10/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.125	7.00E-03	4.70E-02	—	pCi/L	—	—	10-4108	CAPA-10-24128	GELC
R-37	1026	06/08/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.171	8.33E-03	4.20E-02	—	pCi/L	—	—	10-3330	CAPA-10-17952	GELC
R-37	1026	03/03/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.21	9.67E-03	3.60E-02	—	pCi/L	—	—	10-2296	CAPA-10-13073	GELC
R-37	1026	12/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.482	1.77E-02	6.90E-02	—	pCi/L	—	—	10-1021	CAPA-10-6824	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	98.5	—	—	7.30E-01	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	99.1	—	—	7.30E-01	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	96.5	—	—	7.30E-01	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	101	—	—	7.30E-01	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	94.8	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0926	—	—	6.60E-02	mg/L	J	J	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0932	—	—	6.60E-02	mg/L	J	J	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0871	—	—	6.60E-02	mg/L	J	J	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.1	—	—	5.00E-02	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	24.8	—	—	5.00E-02	mg/L	—	—	11-2877	CAPA-11-22856	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.1	—	—	5.00E-02	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	24.7	—	—	5.00E-02	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	24.2	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.3	—	—	5.00E-02	mg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	24.7	—	—	5.00E-02	mg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	26.1	—	—	5.00E-02	mg/L	—	—	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	25.4	—	—	5.00E-02	mg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	24.2	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	4.59	—	—	6.60E-02	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	4.73	—	—	6.60E-02	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	4.6	—	—	6.60E-02	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	4.75	—	—	6.60E-02	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	4.61	—	—	6.60E-02	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.577	—	—	3.30E-02	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.545	—	—	3.30E-02	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.511	—	—	3.30E-02	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.566	—	—	3.30E-02	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.524	—	—	3.30E-02	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	85.8	—	—	4.50E-01	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	84.8	—	—	4.50E-01	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	86.2	—	—	4.50E-01	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	84.7	—	—	4.50E-01	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	83.1	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	86.5	—	—	4.50E-01	mg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	84.5	—	—	4.50E-01	mg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	89.6	—	—	4.50E-01	mg/L	—	—	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	87.4	—	—	4.50E-01	mg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	83.3	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-26914	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.62	—	—	1.10E-01	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.57	—	—	1.10E-01	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.71	—	—	1.10E-01	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.62	—	—	1.10E-01	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.5	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.66	—	—	1.10E-01	mg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.56	—	—	1.10E-01	mg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.93	—	—	1.10E-01	mg/L	—	—	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.82	—	—	1.10E-01	mg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.55	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.456	—	—	5.00E-02	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.536	—	—	1.00E-01	mg/L	—	J	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.375	—	—	1.00E-02	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.474	—	—	5.00E-02	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.52	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.476	—	—	5.00E-02	µg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.615	—	—	5.00E-02	µg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.453	—	—	5.00E-02	µg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.521	—	—	5.00E-02	µg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.52	—	—	5.00E-02	µg/L	—	J+	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.82	—	—	5.00E-02	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.75	—	—	5.00E-02	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.67	—	—	5.00E-02	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.84	—	—	5.00E-02	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.69	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.86	—	—	5.00E-02	mg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.78	—	—	5.00E-02	mg/L	—	—	11-2284	CAPA-11-9298	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.9	—	—	5.00E-02	mg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.73	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.5	—	—	1.00E-01	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.3	—	—	1.00E-01	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.6	—	—	1.00E-01	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.8	—	—	1.00E-01	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.5	—	—	1.00E-01	mg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.5	—	—	1.00E-01	mg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	16.3	—	—	1.00E-01	mg/L	—	—	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15	—	—	1.00E-01	mg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.9	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	234	—	—	1.00E+00	µS/cm	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	242	—	—	1.00E+00	µS/cm	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	228	—	—	1.00E+00	µS/cm	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	228	—	—	1.00E+00	µS/cm	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	238	—	—	1.00E+00	µS/cm	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.34	—	—	1.00E-01	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.19	—	—	1.00E-01	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.5	—	—	1.00E-01	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.79	—	—	1.00E-01	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	9.83	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	177	—	—	3.40E+00	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	153	—	—	3.40E+00	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	177	—	—	2.40E+00	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	186	—	—	2.40E+00	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	187	—	—	2.40E+00	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.785	—	—	3.30E-01	mg/L	J	J	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.902	—	—	3.30E-01	mg/L	J	J	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.856	—	—	3.30E-01	mg/L	J	J	11-1178	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.13	—	—	3.30E-01	mg/L	—	—	11-127	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.16	—	—	1.00E-02	SU	H	J-	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.27	—	—	1.00E-02	SU	H	J-	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.07	—	—	1.00E-02	SU	H	J-	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.1	—	—	1.00E-02	SU	H	J-	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.12	—	—	1.00E-02	SU	H	J-	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.47	—	—	1.00E+00	µg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.34	—	—	1.00E+00	µg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.46	—	—	1.00E+00	µg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	9.14	—	—	1.00E+00	µg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	8.92	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	8.52	—	—	1.00E+00	µg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	8.45	—	—	1.00E+00	µg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	9.09	—	—	1.00E+00	µg/L	—	—	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	9.63	—	—	1.00E+00	µg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	9.33	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	27.1	—	—	1.50E+01	µg/L	J	J	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	29.7	—	—	1.50E+01	µg/L	J	J	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	27.8	—	—	1.50E+01	µg/L	J	J	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	29.9	—	—	1.50E+01	µg/L	J	J	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	26.6	—	—	1.50E+01	µg/L	J	J	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	28.8	—	—	1.50E+01	µg/L	J	J	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	30	—	—	1.50E+01	µg/L	J	J	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	29.5	—	—	1.50E+01	µg/L	J	J	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	31.5	—	—	1.50E+01	µg/L	J	J	11-1180	CAPA-11-2990	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	26.5	—	—	1.50E+01	µg/L	J	J	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.84	—	—	2.00E+00	µg/L	J	J	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.02	—	—	2.50E+00	µg/L	J	J	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.13	—	—	2.00E+00	µg/L	J	J	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.02	—	—	2.50E+00	µg/L	J	J	11-128	CAPA-10-26914	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	2.29	—	—	2.00E+00	µg/L	J	U	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	3.66	—	—	2.00E+00	µg/L	J	J	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	10.1	—	—	2.00E+00	µg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	2.68	—	—	2.00E+00	µg/L	J	J	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10.1	—	—	2.00E+00	µg/L	—	U	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	28.2	—	—	2.00E+00	µg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	18.8	—	—	2.00E+00	µg/L	—	—	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.73	—	—	1.70E-01	µg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.31	—	—	1.70E-01	µg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.29	—	—	1.70E-01	µg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	4.2	—	—	1.70E-01	µg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.55	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	3.6	—	—	1.70E-01	µg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	3.37	—	—	1.70E-01	µg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	3.46	—	—	1.70E-01	µg/L	—	—	11-2284	CAPA-11-9298	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	4.1	—	—	1.70E-01	µg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	3.41	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.27	—	—	5.00E-01	µg/L	J	J	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.2	—	—	5.00E-01	µg/L	J	J	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.25	—	—	5.00E-01	µg/L	J	J	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.51	—	—	5.00E-01	µg/L	J	J	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.05	—	—	5.00E-01	µg/L	J	J	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.41	—	—	5.00E-01	µg/L	J	J	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.31	—	—	5.00E-01	µg/L	J	J	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.49	—	—	5.00E-01	µg/L	J	J	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.7	—	—	5.00E-01	µg/L	J	J	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.07	—	—	5.00E-01	µg/L	J	J	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	55.4	—	—	5.30E-02	mg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	56.7	—	—	5.30E-02	mg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	55.6	—	—	5.30E-02	mg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	60.1	—	—	5.30E-02	mg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	52.3	—	—	5.30E-02	mg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	101	—	—	1.00E+00	µg/L	—	—	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	102	—	—	1.00E+00	µg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	100	—	—	1.00E+00	µg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	104	—	—	1.00E+00	µg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	99.6	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	102	—	—	1.00E+00	µg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	103	—	—	1.00E+00	µg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	104	—	—	1.00E+00	µg/L	—	—	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	106	—	—	1.00E+00	µg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	99.5	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.62	—	—	6.70E-02	µg/L	—	—	12-214	CAPA-12-1128	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.35	—	—	6.70E-02	µg/L	—	—	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.41	—	—	6.70E-02	µg/L	—	—	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.33	—	—	6.70E-02	µg/L	—	—	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.61	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.63	—	—	6.70E-02	µg/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.36	—	—	6.70E-02	µg/L	—	—	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.5	—	—	6.70E-02	µg/L	—	—	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.32	—	—	6.70E-02	µg/L	—	—	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.66	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.38	—	—	1.00E+00	µg/L	J	J	12-214	CAPA-12-1128	GELC
R-37	929.3	07/19/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.93	—	—	1.00E+00	µg/L	J	J	11-2877	CAPA-11-22856	GELC
R-37	929.3	05/03/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.83	—	—	1.00E+00	µg/L	J	J	11-2284	CAPA-11-9300	GELC
R-37	929.3	01/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.62	—	—	1.00E+00	µg/L	J	J	11-1180	CAPA-11-2991	GELC
R-37	929.3	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.66	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-26915	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.97	—	—	1.00E+00	µg/L	J	J	12-214	CAPA-12-1127	GELC
R-37	929.3	07/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.03	—	—	1.00E+00	µg/L	J	J	11-2877	CAPA-11-22854	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.63	—	—	1.00E+00	µg/L	J	J	11-2284	CAPA-11-9298	GELC
R-37	929.3	01/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.63	—	—	1.00E+00	µg/L	J	J	11-1180	CAPA-11-2990	GELC
R-37	929.3	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.72	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-26914	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0	1.20E-03	2.80E-02	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00475	1.43E-03	3.30E-02	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00259	9.67E-04	2.10E-02	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00477	1.43E-03	4.60E-02	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00816	2.63E-03	3.40E-02	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.48	5.33E-01	6.30E+00	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.36	4.00E-01	3.70E+00	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-3.47	6.33E-01	4.90E+00	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.91	3.33E-01	3.60E+00	—	pCi/L	U	U	10-2250	CAPA-10-12855	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.644	4.00E-01	4.00E+00	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.331	4.00E-01	5.10E+00	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.21	4.00E-01	4.60E+00	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.993	4.67E-01	4.90E+00	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.96	4.67E-01	3.10E+00	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.309	3.67E-01	3.80E+00	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.34	2.93E-01	1.80E+00	—	pCi/L	—	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.17	2.13E-01	1.80E+00	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	—	4.44	4.00E-01	2.20E+00	—	pCi/L	—	—	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.57	2.80E-01	2.50E+00	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.36	2.83E-01	2.70E+00	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.88	2.60E-01	2.30E+00	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.26	2.97E-01	2.90E+00	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	4.17	3.27E-01	2.30E+00	—	pCi/L	—	—	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.06	2.67E-01	2.70E+00	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	4.41	3.33E-01	2.30E+00	—	pCi/L	—	—	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	8	1.10E+00	1.30E+01	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.534	9.00E-01	8.10E+00	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	1.56	7.67E-01	8.10E+00	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-6.96	1.77E+00	1.60E+01	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.605	3.03E+00	2.80E+01	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00783	3.13E-03	4.50E-02	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00226	1.30E-03	2.00E-02	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00194	1.13E-03	2.90E-02	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0175	3.67E-03	4.20E-02	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00226	1.07E-03	3.30E-02	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00261	8.67E-04	4.40E-02	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.07E-03	3.30E-02	—	pCi/L	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00582	1.70E-03	2.70E-02	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0143	2.43E-03	2.90E-02	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00226	1.70E-03	3.60E-02	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-26	7.00E+00	7.30E+01	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-22	5.00E+00	4.50E+01	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-20	6.00E+00	5.40E+01	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-2.58	4.67E+00	4.20E+01	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-32	6.00E+00	5.30E+01	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.772	7.00E-02	3.40E-01	—	pCi/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.207	3.13E-02	2.80E-01	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	11/18/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.131	3.03E-02	3.00E-01	—	pCi/L	U	U	10-624	CAMO-10-5356	GELC
R-37	929.3	08/20/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.422	4.67E-02	3.40E-01	—	pCi/L	—	U	09-2983	CAMO-09-9912	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	-0.0754	5.33E-02	6.00E-01	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.295	8.33E-02	8.40E-01	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	11/18/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.787	1.00E-01	8.50E-01	—	pCi/L	U	U	10-624	CAMO-10-5356	GELC
R-37	929.3	08/20/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	3.05	2.47E-01	1.70E+00	—	pCi/L	—	—	09-2983	CAMO-09-9912	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.256	4.33E-01	5.00E+00	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.609	4.67E-01	4.30E+00	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.783	5.00E-01	5.10E+00	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.367	3.67E-01	3.60E+00	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.568	4.33E-01	4.00E+00	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.186	3.67E-02	4.80E-01	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.191	5.00E-02	4.90E-01	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0761	4.00E-02	5.00E-01	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0845	4.00E-02	4.60E-01	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.304	3.67E-02	4.80E-01	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	34.4	1.76E+00	2.28E+00	—	pCi/L	—	—	12-244	CAPA-12-1127	ARSL
R-37	929.3	07/19/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	9.77058	5.53E-01	2.14E+00	—	pCi/L	—	—	11-2878	CAPA-11-22854	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-37	929.3	05/03/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	42.65848	2.17E+00	2.14E+00	—	pCi/L	—	—	11-2438	CAPA-11-9298	ARSL
R-37	929.3	01/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	44.22305	2.25E+00	2.55E+00	—	pCi/L	—	R	11-1211	CAPA-11-2990	ARSL
R-37	929.3	01/21/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	44.89358	2.29E+00	2.55E+00	—	pCi/L	—	—	11-1211	CAPA-11-2990	ARSL
R-37	929.3	10/12/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	51.24765	2.60E+00	2.39E+00	—	pCi/L	—	R	11-195	CAPA-10-26914	ARSL
R-37	929.3	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	54.21714	2.75E+00	2.39E+00	—	pCi/L	—	—	11-195	CAPA-10-26914	ARSL
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	1.01	3.13E-02	5.50E-02	—	pCi/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	1.26	3.67E-02	9.90E-02	—	pCi/L	—	—	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.979	2.90E-02	6.00E-02	—	pCi/L	—	—	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.987	3.00E-02	5.20E-02	—	pCi/L	—	—	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	1.03	3.00E-02	8.90E-02	—	pCi/L	—	—	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0246	4.00E-03	4.10E-02	—	pCi/L	U	U	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00422	3.13E-03	4.70E-02	—	pCi/L	U	U	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0307	3.33E-03	4.10E-02	—	pCi/L	U	U	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0219	3.03E-03	4.10E-02	—	pCi/L	U	U	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.02	2.77E-03	4.60E-02	—	pCi/L	U	U	10-1021	CAPA-10-6823	GELC
R-37	929.3	10/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.428	1.63E-02	6.50E-02	—	pCi/L	—	—	12-214	CAPA-12-1127	GELC
R-37	929.3	08/05/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.56	2.00E-02	6.00E-02	—	pCi/L	—	—	10-4011	CAPA-10-24066	GELC
R-37	929.3	06/16/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.488	1.70E-02	4.50E-02	—	pCi/L	—	—	10-3443	CAPA-10-17949	GELC
R-37	929.3	03/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.42	1.57E-02	3.70E-02	—	pCi/L	—	—	10-2250	CAPA-10-12855	GELC
R-37	929.3	12/18/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.47	1.63E-02	5.50E-02	—	pCi/L	—	—	10-1021	CAPA-10-6823	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.7	—	—	7.30E-01	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.7	—	—	7.30E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.6	—	—	7.30E-01	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.8	—	—	7.30E-01	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	58.9	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0693	—	—	6.60E-02	mg/L	J	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2344	CAPA-11-9326	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.4	—	—	5.00E-02	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	74.3	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.8	—	—	5.00E-02	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.2	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.1	—	—	5.00E-02	mg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.38	—	—	6.60E-02	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.52	—	—	6.60E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.6	—	—	6.60E-02	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.41	—	—	6.60E-02	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.41	—	—	6.60E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.315	—	—	3.30E-02	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.309	—	—	3.30E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.317	—	—	3.30E-02	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.267	—	—	3.30E-02	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.271	—	—	3.30E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45.5	—	—	4.50E-01	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	271	—	—	4.50E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SM:A2340B	Hardness	—	46.4	—	—	4.50E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.3	—	—	4.50E-01	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45	—	—	4.50E-01	mg/L	—	—	11-1225	CAPA-11-3021	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	44.8	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.7	—	—	4.50E-01	mg/L	—	—	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	47.8	—	—	4.50E-01	mg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	48.6	—	—	4.50E-01	mg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.2	—	—	4.50E-01	mg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46.9	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.57	—	—	1.10E-01	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	20.7	—	—	1.10E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SW-846:6010B	Magnesium	—	3.7	—	—	1.10E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.75	—	—	1.10E-01	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.52	—	—	1.10E-01	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.54	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.47	—	—	1.10E-01	mg/L	—	—	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.61	—	—	1.10E-01	mg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.88	—	—	1.10E-01	mg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.45	—	—	1.10E-01	mg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.69	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.63	—	—	5.00E-02	mg/L	—	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.64	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.531	—	—	1.00E-02	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.545	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.605	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.36	—	—	5.00E-02	µg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.356	—	—	5.00E-02	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.366	—	—	5.00E-02	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.377	—	—	5.00E-02	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.383	—	—	5.00E-02	µg/L	—	J+	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.6	—	—	5.00E-02	mg/L	—	J	12-169	CAPA-12-1179	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SW-846:6010B	Potassium	—	1.56	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.47	—	—	5.00E-02	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.6	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.51	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.52	—	—	5.00E-02	mg/L	—	J	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.68	—	—	5.00E-02	mg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.42	—	—	5.00E-02	mg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.57	—	—	5.00E-02	mg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.57	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	115	—	—	1.00E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.1	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	135	—	—	1.00E+00	µS/cm	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	133	—	—	1.00E+00	µS/cm	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	145	—	—	1.00E+00	µS/cm	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	143	—	—	1.00E+00	µS/cm	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	142	—	—	1.00E+00	µS/cm	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.93	—	—	1.00E-01	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.81	—	—	1.00E-01	mg/L	—	—	11-2941	CAPA-11-22890	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.15	—	—	1.00E-01	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.91	—	—	1.00E-01	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.12	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	129	—	—	3.40E+00	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	144	—	—	3.40E+00	mg/L	—	J	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	131	—	—	2.40E+00	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	131	—	—	2.40E+00	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	127	—	—	2.40E+00	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.714	—	—	3.30E-01	mg/L	J	J	12-168	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.406	—	—	3.30E-01	mg/L	J	J	11-2940	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.509	—	—	3.30E-01	mg/L	J	J	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.785	—	—	3.30E-01	mg/L	J	J	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.07	—	—	3.30E-01	mg/L	—	—	11-127	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.52	—	—	1.00E-02	SU	H	J-	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.58	—	—	1.00E-02	SU	H	J-	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.66	—	—	1.00E-02	SU	H	J-	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.53	—	—	1.00E-02	SU	H	J-	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.71	—	—	1.00E-02	SU	H	J-	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.2	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	349	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6010B	Barium	—	29.6	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.4	—	—	1.00E+00	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.9	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.6	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	28.9	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30.3	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30.4	—	—	1.00E+00	µg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.4	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3020	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.12	—	—	1.70E-01	µg/L	—	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	180	—	—	1.70E-01	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6020	Molybdenum	—	1.72	—	—	1.70E-01	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.74	—	—	1.70E-01	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.78	—	—	1.70E-01	µg/L	—	U	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.67	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.92	—	—	1.70E-01	µg/L	—	J	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.69	—	—	1.70E-01	µg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.72	—	—	1.70E-01	µg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	1.79	—	—	1.70E-01	µg/L	—	U	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.74	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	4.04	—	—	5.00E-01	µg/L	—	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	9.23	—	—	5.00E-01	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6020	Nickel	—	2.83	—	—	5.00E-01	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	3.5	—	—	5.00E-01	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.98	—	—	5.00E-01	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	5.61	—	—	5.00E-01	µg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	3.42	—	—	5.00E-01	µg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	3.43	—	—	5.00E-01	µg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	3.3	—	—	5.00E-01	µg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	5.67	—	—	5.00E-01	µg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.3	—	—	5.30E-02	mg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	170	—	—	2.70E-01	mg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.4	—	—	5.30E-02	mg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.5	—	—	5.30E-02	mg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	62.2	—	—	5.30E-02	mg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	51.7	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1179	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	367	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6010B	Strontium	—	51.3	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	50.7	—	—	1.00E+00	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	52	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	49.4	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	51.1	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	54.6	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	52.5	—	—	1.00E+00	µg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	50.5	—	—	1.00E+00	µg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	52.4	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.388	—	—	6.70E-02	µg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	10.8	—	—	6.70E-02	µg/L	—	J	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6020	Uranium	—	0.275	—	—	6.70E-02	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.441	—	—	6.70E-02	µg/L	—	—	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.399	—	—	6.70E-02	µg/L	—	—	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.448	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.398	—	—	6.70E-02	µg/L	—	—	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.389	—	—	6.70E-02	µg/L	—	U	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.434	—	—	6.70E-02	µg/L	—	—	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.389	—	—	6.70E-02	µg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.454	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.94	—	—	1.00E+00	µg/L	J	J	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	9.54	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6010B	Vanadium	—	5.31	—	—	1.00E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.66	—	—	1.00E+00	µg/L	J	J	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.86	—	—	1.00E+00	µg/L	J	J	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.66	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.64	—	—	1.00E+00	µg/L	J	J	12-169	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.75	—	—	1.00E+00	µg/L	J	J	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.76	—	—	1.00E+00	µg/L	J	J	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.92	—	—	1.00E+00	µg/L	J	J	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	10.2	—	—	3.30E+00	µg/L	—	—	12-169	CAPA-12-1179	GELC
R-38	821.2	07/26/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	23.3	—	—	3.30E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	07/26/11	WG	F	RE	—	Metals	SW-846:6010B	Zinc	—	10.9	—	—	3.30E+00	µg/L	—	—	11-2941	CAPA-11-22890	GELC
R-38	821.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	6.25	—	—	3.30E+00	µg/L	J	J	11-2344	CAPA-11-9326	GELC
R-38	821.2	01/27/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	7.5	—	—	3.30E+00	µg/L	J	J	11-1225	CAPA-11-3021	GELC
R-38	821.2	10/11/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	9.36	—	—	3.30E+00	µg/L	J	J	11-128	CAPA-10-27408	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	10.1	—	—	3.30E+00	µg/L	—	—	12-169	CAPA-12-1181	GELC
R-38	821.2	07/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	8.88	—	—	3.30E+00	µg/L	J	J	11-2941	CAPA-11-22889	GELC
R-38	821.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	9.08	—	—	3.30E+00	µg/L	J	J	11-2344	CAPA-11-9325	GELC
R-38	821.2	01/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	11.1	—	—	3.30E+00	µg/L	—	—	11-1225	CAPA-11-3020	GELC
R-38	821.2	10/11/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	10.3	—	—	3.30E+00	µg/L	—	—	11-128	CAPA-10-27406	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00449	2.80E-03	3.50E-02	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00314	1.67E-03	4.40E-02	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00954	1.83E-03	3.00E-02	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.000694	5.00E-04	2.10E-02	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0134	3.67E-03	3.80E-02	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.31	6.67E-01	7.90E+00	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.585	6.33E-01	6.20E+00	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.638	4.00E-01	4.20E+00	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.506	2.27E-01	2.20E+00	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.443	2.90E-01	3.00E+00	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.83	6.00E-01	6.60E+00	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.15	6.33E-01	6.80E+00	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.403	4.33E-01	4.20E+00	—	pCi/L	U	U	10-3296	CAPA-10-17956	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.502	2.43E-01	2.50E+00	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.1	3.00E-01	3.20E+00	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.683	2.10E-01	2.30E+00	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.296	1.23E-01	2.20E+00	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.83	1.60E-01	2.90E+00	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.209	1.17E-01	2.00E+00	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.342	1.50E-01	2.40E+00	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.56	3.20E-01	3.00E+00	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.41	3.00E-01	2.80E+00	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.09	2.80E-01	2.50E+00	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.78	2.97E-01	2.70E+00	—	pCi/L	—	—	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.55	3.67E-01	3.20E+00	—	pCi/L	—	—	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.93	8.67E-01	9.40E+00	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.739	1.03E+00	1.00E+01	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.673	8.00E-01	7.90E+00	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	6.2	1.83E+00	1.80E+01	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	9.63	2.47E+00	2.50E+01	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00265	1.97E-03	4.60E-02	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00964	1.93E-03	1.70E-02	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00252	1.20E-03	3.80E-02	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00418	1.00E-03	3.60E-02	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00842	3.67E-03	3.10E-02	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00265	1.97E-03	4.50E-02	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00578	1.70E-03	2.80E-02	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00251	2.77E-03	3.50E-02	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00209	1.83E-03	2.50E-02	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0021	1.20E-03	3.30E-02	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-17.3	7.33E+00	7.90E+01	—	pCi/L	U	U	12-170	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-50.1	6.67E+00	4.30E+01	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-13.3	5.67E+00	5.30E+01	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	17.5	2.70E+00	2.90E+01	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-1.53	4.33E+00	4.00E+01	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.0907	4.33E-02	4.90E-01	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.487	6.00E-02	3.40E-01	—	pCi/L	—	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	05/01/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.527	8.67E-02	7.70E-01	—	pCi/L	U	U	09-1699	CAMO-09-8224	GELC
R-38	821.2	02/06/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.456	6.67E-02	5.70E-01	—	pCi/L	U	U	09-839	CAMO-09-2999	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.169	4.00E-02	3.90E-01	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.37	5.67E-02	5.10E-01	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	05/01/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	1.34	1.20E-01	8.20E-01	—	pCi/L	—	—	09-1699	CAMO-09-8224	GELC
R-38	821.2	02/06/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.126	5.67E-02	6.00E-01	—	pCi/L	U	U	09-839	CAMO-09-2999	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.27	6.00E-01	6.70E+00	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.227	5.33E-01	5.30E+00	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2	4.00E-01	3.30E+00	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.815	2.17E-01	2.30E+00	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.485	2.63E-01	2.50E+00	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0646	4.67E-02	4.80E-01	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.207	4.67E-02	4.80E-01	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.175	5.00E-02	4.90E-01	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0255	4.67E-02	4.80E-01	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.363	4.33E-02	4.00E-01	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.22	2.17E-01	2.24E+00	—	pCi/L	U	U	12-171	CAPA-12-1181	ARSL
R-38	821.2	07/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.03193	2.24E-01	2.33E+00	—	pCi/L	U	U	11-2942	CAPA-11-22889	ARSL
R-38	821.2	05/06/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.37299	2.34E-01	2.24E+00	—	pCi/L	U	U	11-2438	CAPA-11-9325	ARSL
R-38	821.2	01/27/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.97966	1.70E-01	1.56E+00	—	pCi/L	U	R	11-1276	CAPA-11-3020	ARSL
R-38	821.2	01/27/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.51088	1.49E-01	1.56E+00	—	pCi/L	U	U	11-1276	CAPA-11-3020	ARSL
R-38	821.2	10/11/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.67195	3.19E-01	2.49E+00	—	pCi/L	—	R	11-195	CAPA-10-27406	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-38	821.2	10/11/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	2.93756	2.98E-01	2.49E+00	—	pCi/L	—	U	11-195	CAPA-10-27406	ARSL
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.211	9.67E-03	4.60E-02	—	pCi/L	—	—	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.32	1.23E-02	7.80E-02	—	pCi/L	—	—	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.331	1.27E-02	5.90E-02	—	pCi/L	—	—	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.276	1.07E-02	4.10E-02	—	pCi/L	—	—	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.262	1.07E-02	8.20E-02	—	pCi/L	—	—	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0136	2.30E-03	3.40E-02	—	pCi/L	U	U	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.02	3.17E-03	3.70E-02	—	pCi/L	U	U	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00667	1.57E-03	4.00E-02	—	pCi/L	U	U	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0285	3.33E-03	3.20E-02	—	pCi/L	U	U	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0247	3.67E-03	4.30E-02	—	pCi/L	U	U	10-995	CAPA-10-6793	GELC
R-38	821.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0881	6.00E-03	5.40E-02	—	pCi/L	—	—	12-170	CAPA-12-1181	GELC
R-38	821.2	08/06/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.159	8.00E-03	4.70E-02	—	pCi/L	—	—	10-4046	CAPA-10-24148	GELC
R-38	821.2	06/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.119	6.67E-03	4.40E-02	—	pCi/L	—	—	10-3296	CAPA-10-17956	GELC
R-38	821.2	03/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.12	6.33E-03	2.90E-02	—	pCi/L	—	—	10-2446	CAPA-10-13087	GELC
R-38	821.2	12/17/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.122	6.33E-03	5.10E-02	—	pCi/L	—	—	10-995	CAPA-10-6793	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.7	—	—	7.30E-01	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.1	—	—	7.30E-01	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.7	—	—	7.30E-01	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63	—	—	7.30E-01	mg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.8	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13	—	—	5.00E-02	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.2	—	—	5.00E-02	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.4	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.4	—	—	5.00E-02	mg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.8	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-2967	CAPA-11-22896	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	04/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.4	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.13	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.21	—	—	6.60E-02	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.14	—	—	6.60E-02	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.15	—	—	6.60E-02	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.22	—	—	6.60E-02	mg/L	—	J+	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.316	—	—	3.30E-02	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.269	—	—	3.30E-02	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.284	—	—	3.30E-02	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.27	—	—	3.30E-02	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.268	—	—	3.30E-02	mg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.2	—	—	4.50E-01	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.4	—	—	4.50E-01	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	48.2	—	—	4.50E-01	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45.1	—	—	4.50E-01	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45	—	—	3.50E-01	mg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46.3	—	—	4.50E-01	mg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46	—	—	4.50E-01	mg/L	—	—	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.7	—	—	4.50E-01	mg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.9	—	—	4.50E-01	mg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	47	—	—	3.50E-01	mg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.47	—	—	1.10E-01	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.64	—	—	1.10E-01	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.7	—	—	1.10E-01	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.43	—	—	1.10E-01	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.43	—	—	8.50E-02	mg/L	—	—	11-97	CAPA-10-27411	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.48	—	—	1.10E-01	mg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.49	—	—	1.10E-01	mg/L	—	—	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.43	—	—	1.10E-01	mg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.41	—	—	1.10E-01	mg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.61	—	—	8.50E-02	mg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.62	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.685	—	—	5.00E-02	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.648	—	—	1.00E-01	mg/L	—	J+	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.59	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.545	—	—	5.00E-02	mg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.36	—	—	5.00E-02	µg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.339	—	—	5.00E-02	µg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.336	—	—	5.00E-02	µg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.365	—	—	5.00E-02	µg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.334	—	—	5.00E-02	µg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.37	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.6	—	—	5.00E-02	mg/L	—	J	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.49	—	—	5.00E-02	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.38	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.47	—	—	5.00E-02	mg/L	—	J	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.38	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.53	—	—	5.00E-02	mg/L	—	J	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.34	—	—	5.00E-02	mg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.44	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.5	—	—	5.00E-02	mg/L	—	J	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-2142	CAPA-11-9341	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	J+	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.98	—	—	1.00E-01	mg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	J+	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	130	—	—	1.00E+00	µS/cm	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	130	—	—	1.00E+00	µS/cm	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	134	—	—	1.00E+00	µS/cm	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	140	—	—	1.00E+00	µS/cm	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	139	—	—	1.00E+00	µS/cm	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.92	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.78	—	—	1.00E-01	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.92	—	—	1.00E-01	mg/L	—	J	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.02	—	—	1.00E-01	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.5	—	—	1.00E-01	mg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	127	—	—	3.40E+00	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	136	—	—	3.40E+00	mg/L	—	J	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	2.40E+00	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	135	—	—	2.40E+00	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	138	—	—	2.40E+00	mg/L	—	J	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.524	—	—	3.30E-01	mg/L	J	J	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.357	—	—	3.30E-01	mg/L	J	J	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-1219	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	0.489	—	—	3.30E-01	mg/L	J	U	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.11	—	—	1.00E-02	SU	H	J-	12-201	CAPA-12-1146	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	07/28/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.06	—	—	1.00E-02	SU	H	J-	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.72	—	—	1.00E-02	SU	H	J-	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.98	—	—	1.00E-02	SU	H	J-	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.08	—	—	1.00E-02	SU	H	J-	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14.9	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	15.9	—	—	1.00E+00	µg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14.8	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14.8	—	—	1.00E+00	µg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	15.3	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	14.9	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	15	—	—	1.00E+00	µg/L	—	—	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	14.7	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	16.4	—	—	1.00E+00	µg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	17.4	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.08	—	—	2.00E+00	µg/L	J	J	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	6.68	—	—	2.00E+00	µg/L	J	U	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	5.25	—	—	2.00E+00	µg/L	J	U	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.69	—	—	2.00E+00	µg/L	JN	J-	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.82	—	—	2.50E+00	µg/L	J	J	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.21	—	—	2.00E+00	µg/L	J	J	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	7.25	—	—	2.00E+00	µg/L	J	U	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	5.66	—	—	2.00E+00	µg/L	J	U	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.81	—	—	2.00E+00	µg/L	JN	J-	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.05	—	—	2.50E+00	µg/L	J	J	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.36	—	—	1.70E-01	µg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.29	—	—	1.70E-01	µg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.34	—	—	1.70E-01	µg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.79	—	—	1.70E-01	µg/L	—	J	11-1220	CAPA-11-3027	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.44	—	—	1.00E-01	µg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.32	—	—	1.70E-01	µg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.33	—	—	1.70E-01	µg/L	—	—	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.26	—	—	1.70E-01	µg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.85	—	—	1.70E-01	µg/L	—	J	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.26	—	—	1.00E-01	µg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.729	—	—	5.00E-01	µg/L	J	J	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.62	—	—	5.00E-01	µg/L	J	J	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.11	—	—	5.00E-01	µg/L	J	J	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	1.36	—	—	5.00E-01	µg/L	J	U	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.646	—	—	5.00E-01	µg/L	J	J	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.764	—	—	5.00E-01	µg/L	J	J	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.88	—	—	5.00E-01	µg/L	J	J	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.03	—	—	5.00E-01	µg/L	J	J	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	0.941	—	—	5.00E-01	µg/L	J	U	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.826	—	—	5.00E-01	µg/L	J	J	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.6	—	—	5.30E-02	mg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70.7	—	—	5.30E-02	mg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.4	—	—	5.30E-02	mg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.4	—	—	5.30E-02	mg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	62.9	—	—	5.30E-02	mg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.3	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.8	—	—	1.00E+00	µg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.4	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.1	—	—	1.00E+00	µg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	54	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	55.9	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	55.3	—	—	1.00E+00	µg/L	—	—	11-2967	CAPA-11-22896	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	04/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	52.5	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	55.8	—	—	1.00E+00	µg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	56.3	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.307	—	—	6.70E-02	µg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.355	—	—	6.70E-02	µg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.299	—	—	6.70E-02	µg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.389	—	—	6.70E-02	µg/L	—	—	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.478	—	—	5.00E-02	µg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.328	—	—	6.70E-02	µg/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.352	—	—	6.70E-02	µg/L	—	—	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.295	—	—	6.70E-02	µg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.399	—	—	6.70E-02	µg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.544	—	—	5.00E-02	µg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.27	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1146	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.15	—	—	1.00E+00	µg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.89	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	4.82	—	—	1.00E+00	µg/L	J	U	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.56	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.56	—	—	1.00E+00	µg/L	J	J	12-201	CAPA-12-1147	GELC
R-39	859	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.06	—	—	1.00E+00	µg/L	—	—	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	4.96	—	—	1.00E+00	µg/L	J	U	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	4.43	—	—	1.00E+00	µg/L	J	U	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.84	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	14.5	—	—	3.30E+00	µg/L	—	—	11-2967	CAPA-11-22897	GELC
R-39	859	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2142	CAPA-11-9341	GELC
R-39	859	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-1220	CAPA-11-3027	GELC
R-39	859	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-97	CAPA-10-27411	GELC
R-39	859	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	9.67	—	—	3.30E+00	µg/L	J	J	12-201	CAPA-12-1147	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	16.5	—	—	3.30E+00	µg/L	—	—	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	10.6	—	—	3.30E+00	µg/L	—	—	11-1220	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	18.6	—	—	3.30E+00	µg/L	—	—	11-97	CAPA-10-27409	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0013	1.57E-03	3.90E-02	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000244	1.67E-03	3.60E-02	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0033	1.13E-03	2.80E-02	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.016	3.30E-03	3.80E-02	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00285	3.67E-03	3.50E-02	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.87	4.67E-01	4.90E+00	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.324	5.00E-01	4.50E+00	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.51	3.67E-01	4.00E+00	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.92	5.00E-01	5.20E+00	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.699	4.33E-01	4.50E+00	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.83	5.33E-01	6.80E+00	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.185	4.67E-01	4.50E+00	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.237	3.67E-01	3.70E+00	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-2.09	5.33E-01	4.60E+00	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.25	4.33E-01	3.60E+00	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.835	2.43E-01	2.60E+00	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.704	1.90E-01	2.00E+00	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.532	2.67E-01	3.00E+00	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.809	2.33E-01	2.40E+00	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.74	2.37E-01	2.50E+00	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.344	2.10E-01	2.30E+00	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.73	2.70E-01	2.50E+00	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.324	2.13E-01	2.30E+00	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.13	2.43E-01	2.40E+00	—	pCi/L	U	U	10-2176	CAPA-10-12913	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	-0.575	1.57E-01	2.10E+00	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.325	8.00E-01	8.60E+00	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.06	1.00E+00	9.40E+00	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.942	7.33E-01	7.10E+00	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.68	3.33E+00	3.30E+01	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-18.3	4.00E+00	3.30E+01	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00242	1.13E-03	4.20E-02	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	8.00E-04	2.20E-02	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00227	1.07E-03	3.40E-02	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00525	4.00E-03	5.20E-02	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0038	3.33E-03	2.80E-02	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00725	1.40E-03	4.10E-02	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	2.89E-10	1.60E-03	3.50E-02	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00227	1.70E-03	3.10E-02	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0064	1.50E-03	3.70E-02	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0076	1.80E-03	3.00E-02	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-18.3	6.00E+00	6.70E+01	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-18.7	6.00E+00	5.90E+01	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-31.5	5.67E+00	5.40E+01	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	15.3	6.67E+00	7.40E+01	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	6.46	6.67E+00	7.10E+01	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.207	3.67E-02	3.30E-01	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.0707	3.67E-02	4.30E-01	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	09/02/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.316	6.33E-02	5.80E-01	—	pCi/L	U	U	09-3108	CAPA-09-12281	GELC
R-39	859	03/12/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.469	4.00E-02	2.10E-01	—	pCi/L	—	—	09-1202	CAPA-09-4423	GELC
R-39	859	02/19/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.213	8.00E-02	8.60E-01	—	pCi/L	U	U	09-961	CAMO-09-2987	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.165	3.33E-02	3.30E-01	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.101	6.00E-02	6.60E-01	—	pCi/L	U	U	10-2176	CAPA-10-12913	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	09/02/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.316	8.67E-02	9.00E-01	—	pCi/L	U	U	09-3108	CAPA-09-12281	GELC
R-39	859	03/12/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.476	6.33E-02	5.50E-01	—	pCi/L	U	U	09-1202	CAPA-09-4423	GELC
R-39	859	02/19/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.722	8.00E-02	6.40E-01	—	pCi/L	—	—	09-961	CAMO-09-2987	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.55	5.67E-01	7.00E+00	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.05	3.67E-01	3.00E+00	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.821	4.00E-01	3.80E+00	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.573	5.33E-01	5.20E+00	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.05	4.33E-01	4.90E+00	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.125	4.67E-02	5.00E-01	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.045	3.17E-02	3.60E-01	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.275	5.00E-02	4.70E-01	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.217	4.00E-02	4.80E-01	—	pCi/L	U	U	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0917	4.33E-02	4.70E-01	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.63	2.17E-01	2.23E+00	—	pCi/L	U	U	12-244	CAPA-12-1147	ARSL
R-39	859	07/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.10738	2.34E-01	2.20E+00	—	pCi/L	U	U	11-3020	CAPA-11-22896	ARSL
R-39	859	04/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.57474	2.55E-01	2.68E+00	—	pCi/L	U	U	11-2197	CAPA-11-9340	ARSL
R-39	859	01/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.2351	1.92E-01	1.76E+00	—	pCi/L	U	R	11-1276	CAPA-11-3026	ARSL
R-39	859	01/26/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.70246	1.70E-01	1.76E+00	—	pCi/L	U	U	11-1276	CAPA-11-3026	ARSL
R-39	859	10/08/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.78808	2.34E-01	2.04E+00	—	pCi/L	U	U	11-112	CAPA-10-27409	ARSL
R-39	859	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.228	1.07E-02	5.20E-02	—	pCi/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.348	1.23E-02	6.00E-02	—	pCi/L	—	—	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.441	1.60E-02	6.40E-02	—	pCi/L	—	—	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.456	1.70E-02	5.50E-02	—	pCi/L	—	—	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.24	1.07E-02	9.40E-02	—	pCi/L	—	—	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0115	2.23E-03	3.80E-02	—	pCi/L	U	U	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0179	3.10E-03	2.80E-02	—	pCi/L	U	U	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0402	4.00E-03	4.40E-02	—	pCi/L	U	U	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00413	2.20E-03	4.30E-02	—	pCi/L	U	U	10-2176	CAPA-10-12913	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0	1.17E-03	4.90E-02	—	pCi/L	U	U	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.131	7.33E-03	6.10E-02	—	pCi/L	—	—	12-201	CAPA-12-1147	GELC
R-39	859	08/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.124	6.67E-03	3.60E-02	—	pCi/L	—	—	10-4140	CAPA-10-24143	GELC
R-39	859	06/02/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.189	9.33E-03	4.80E-02	—	pCi/L	—	—	10-3296	CAPA-10-17901	GELC
R-39	859	02/26/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.261	1.17E-02	3.90E-02	—	pCi/L	—	—	10-2176	CAPA-10-12913	GELC
R-39	859	12/09/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.109	6.33E-03	5.90E-02	—	pCi/L	—	—	10-882	CAPA-10-6797	GELC
R-39	859	10/27/11	WG	UF	CS	FTB	VOA	SW-846:8260B	Diethyl Ether	—	0.86	—	—	3.00E-01	µg/L	J	J	12-201	CAPA-12-1145	GELC
R-39	859	07/28/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2967	CAPA-11-22896	GELC
R-39	859	04/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2142	CAPA-11-9340	GELC
R-39	859	01/26/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-1219	CAPA-11-3026	GELC
R-39	859	10/08/10	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-96	CAPA-10-27409	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	110	—	—	7.30E-01	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.2	—	—	7.30E-01	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	118	—	—	7.30E-01	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	120	—	—	7.30E-01	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	113	—	—	7.30E-01	mg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.103	—	—	1.60E-02	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.122	—	—	1.60E-02	mg/L	—	J-	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.189	—	—	1.60E-02	mg/L	—	J	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.167	—	—	1.60E-02	mg/L	—	J-	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.145	—	—	1.60E-02	mg/L	—	J-	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0709	—	—	6.60E-02	mg/L	J	J	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.078	—	—	6.60E-02	mg/L	J	J	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	UH	UJ	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	19.9	—	—	5.00E-02	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	18.9	—	—	5.00E-02	mg/L	—	—	11-223	CAPA-10-26919	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	19.3	—	—	5.00E-02	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.1	—	—	5.00E-02	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	18.9	—	—	5.00E-02	mg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	20.3	—	—	5.00E-02	mg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	19	—	—	5.00E-02	mg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	19.2	—	—	5.00E-02	mg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	19.6	—	—	5.00E-02	mg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	19.2	—	—	5.00E-02	mg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.29	—	—	6.60E-02	mg/L	—	J-	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.38	—	—	6.60E-02	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.48	—	—	6.60E-02	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.41	—	—	6.60E-02	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.63	—	—	6.60E-02	mg/L	H	J-	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.338	—	—	3.30E-02	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.223	—	—	3.30E-02	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.238	—	—	3.30E-02	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.29	—	—	3.30E-02	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.344	—	—	3.30E-02	mg/L	H	J-	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	85.4	—	—	4.50E-01	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	81.1	—	—	3.50E-01	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	82.4	—	—	3.50E-01	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	85.6	—	—	3.50E-01	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	80.2	—	—	3.50E-01	mg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	87.3	—	—	4.50E-01	mg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	81.4	—	—	3.50E-01	mg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	82	—	—	3.50E-01	mg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	83.5	—	—	3.50E-01	mg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	81.3	—	—	3.50E-01	mg/L	—	—	10-821	CAPA-10-6790	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.68	—	—	1.10E-01	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.26	—	—	8.50E-02	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.31	—	—	8.50E-02	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.59	—	—	8.50E-02	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.02	—	—	8.50E-02	mg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.87	—	—	1.10E-01	mg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.26	—	—	8.50E-02	mg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.25	—	—	8.50E-02	mg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.38	—	—	8.50E-02	mg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.11	—	—	8.50E-02	mg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.22	—	—	5.00E-02	mg/L	—	J	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.87	—	—	5.00E-02	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.93	—	—	5.00E-02	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.03	—	—	5.00E-02	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.51	—	—	5.00E-01	mg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.25	—	—	5.00E-02	mg/L	—	J	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.86	—	—	5.00E-02	mg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.91	—	—	5.00E-02	mg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.95	—	—	5.00E-02	mg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-01	mg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	19.1	—	—	1.00E-01	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	20.8	—	—	1.00E-01	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	21.3	—	—	1.00E-01	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	24.1	—	—	1.00E-01	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	23.2	—	—	1.00E+00	mg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	19.2	—	—	1.00E-01	mg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	21	—	—	1.00E-01	mg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	21.1	—	—	1.00E-01	mg/L	—	—	10-3892	CAPA-10-24070	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	23.4	—	—	1.00E-01	mg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	23.2	—	—	1.00E+00	mg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	234	—	—	1.00E+00	µS/cm	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.12	—	—	1.00E-01	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.18	—	—	1.00E-01	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.33	—	—	1.00E-01	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.21	—	—	1.00E-01	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.18	—	—	1.00E-01	mg/L	H	J-	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	167	—	—	3.40E+00	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	164	—	—	4.80E+00	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	91	—	—	2.40E+00	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	189	—	—	2.40E+00	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	184	—	—	2.40E+00	mg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	8.77	—	—	3.30E-01	mg/L	—	—	12-251	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	13.5	—	—	1.70E+00	mg/L	—	—	11-222	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	11.9	—	—	6.60E-01	mg/L	—	—	10-3891	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	14.5	—	—	6.60E-01	mg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	12.5	—	—	3.30E-01	mg/L	—	—	10-820	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.0218	—	—	1.50E-02	mg/L	J	J	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.074	—	—	1.50E-02	mg/L	—	U	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.043	—	—	1.50E-02	mg/L	J	J	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.106	—	—	1.50E-02	mg/L	—	J	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.08	—	—	1.50E-02	mg/L	—	U	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.56	—	—	1.00E-02	SU	H	J-	12-252	CAPA-12-1123	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	22.7	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	26.8	—	—	1.00E+00	µg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28	—	—	1.00E+00	µg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.8	—	—	1.00E+00	µg/L	—	—	10-2276	CAPA-10-12850	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	27.6	—	—	1.00E+00	µg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22.9	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	27	—	—	1.00E+00	µg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	27.8	—	—	1.00E+00	µg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.3	—	—	1.00E+00	µg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	28.1	—	—	1.00E+00	µg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.62	—	—	2.00E+00	µg/L	J	J	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.63	—	—	2.50E+00	µg/L	J	J	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	6.4	—	—	2.50E+00	µg/L	J	U	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.61	—	—	2.00E+00	µg/L	J	J	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.66	—	—	2.50E+00	µg/L	J	J	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	6.33	—	—	2.50E+00	µg/L	J	U	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	560	—	—	3.00E+01	µg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	1190	—	—	3.00E+01	µg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	1210	—	—	3.00E+01	µg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	1420	—	—	3.00E+01	µg/L	—	J	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	1410	—	—	3.00E+01	µg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	576	—	—	3.00E+01	µg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	1190	—	—	3.00E+01	µg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	1210	—	—	3.00E+01	µg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	1420	—	—	3.00E+01	µg/L	—	J	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	1470	—	—	3.00E+01	µg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	217	—	—	2.00E+00	µg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	340	—	—	2.00E+00	µg/L	—	—	11-223	CAPA-10-26919	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	366	—	—	2.00E+00	µg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	398	—	—	2.00E+00	µg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	372	—	—	2.00E+00	µg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	219	—	—	2.00E+00	µg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	346	—	—	2.00E+00	µg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	363	—	—	2.00E+00	µg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	392	—	—	2.00E+00	µg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	374	—	—	2.00E+00	µg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	14.8	—	—	1.70E-01	µg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	18.3	—	—	1.00E-01	µg/L	E	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	16.9	—	—	1.00E-01	µg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	22	—	—	1.00E-01	µg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	20	—	—	1.00E-01	µg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	14.7	—	—	1.70E-01	µg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	17.5	—	—	1.00E-01	µg/L	E	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	17.2	—	—	1.00E-01	µg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	21.8	—	—	1.00E-01	µg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	20.6	—	—	1.00E-01	µg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	55	—	—	5.30E-02	mg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	49.4	—	—	5.30E-02	mg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	53.5	—	—	5.30E-02	mg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	52.2	—	—	5.30E-02	mg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	51.3	—	—	5.30E-02	mg/L	—	—	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	103	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	95.9	—	—	1.00E+00	µg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	98.7	—	—	1.00E+00	µg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	106	—	—	1.00E+00	µg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	100	—	—	1.00E+00	µg/L	—	—	10-821	CAPA-10-6791	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	105	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	97	—	—	1.00E+00	µg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	97.9	—	—	1.00E+00	µg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	104	—	—	1.00E+00	µg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	101	—	—	1.00E+00	µg/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.809	—	—	6.70E-02	µg/L	—	—	12-252	CAPA-12-1123	GELC
R-40	649.7	10/20/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.369	—	—	5.00E-02	µg/L	—	—	11-223	CAPA-10-26919	GELC
R-40	649.7	07/28/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.351	—	—	5.00E-02	µg/L	—	—	10-3892	CAPA-10-24071	GELC
R-40	649.7	03/03/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.27	—	—	5.00E-02	µg/L	—	—	10-2276	CAPA-10-12850	GELC
R-40	649.7	12/04/09	WG	F	CS	—	Metals	SW-846:6020	Uranium	<	0.483	—	—	5.00E-02	µg/L	—	U	10-821	CAPA-10-6791	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.772	—	—	6.70E-02	µg/L	—	—	12-252	CAPA-12-1124	GELC
R-40	649.7	10/20/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.372	—	—	5.00E-02	µg/L	—	—	11-223	CAPA-10-26917	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.373	—	—	5.00E-02	µg/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	03/03/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.271	—	—	5.00E-02	µg/L	—	—	10-2276	CAPA-10-12851	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.522	—	—	5.00E-02	µg/L	—	U	10-821	CAPA-10-6790	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	HASL-300	Americium-241	<	-0.00859	1.43E-03	3.70E-02	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00201	6.67E-04	3.10E-02	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0038	8.67E-04	3.60E-02	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.000797	4.33E-03	3.80E-02	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0174	2.87E-03	3.40E-02	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0153	3.67E-03	3.80E-02	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.0686	7.33E-01	7.00E+00	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.328	4.67E-01	5.10E+00	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.289	5.00E-01	5.20E+00	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.66	3.67E-01	4.20E+00	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.406	6.00E-01	5.20E+00	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.739	4.33E-01	4.40E+00	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	EPA:901.1	Cobalt-60	<	-3.28	7.00E-01	5.60E+00	—	pCi/L	U	U	09-2278	CAPA-09-9445	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.21	5.33E-01	5.70E+00	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.535	4.33E-01	4.60E+00	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.78	4.00E-01	4.40E+00	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.14	6.33E-01	6.00E+00	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.55	5.33E-01	5.00E+00	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	EPA:900	Gross alpha	<	2.71	3.30E-01	2.20E+00	—	pCi/L	—	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.06	2.33E-01	2.10E+00	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.997	2.90E-01	3.10E+00	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.949	2.37E-01	2.30E+00	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.661	2.17E-01	2.40E+00	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.7	3.03E-01	2.90E+00	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	EPA:900	Gross beta	<	0.438	1.23E-01	1.20E+00	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.81	2.27E-01	2.30E+00	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.749	2.93E-01	3.00E+00	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.4	2.53E-01	2.40E+00	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.94	4.00E-01	3.60E+00	—	pCi/L	—	—	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.808	1.23E-01	1.10E+00	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.65	3.10E+00	3.10E+01	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-3.34	9.67E-01	9.70E+00	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.03	1.03E+00	9.90E+00	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-18.1	2.93E+00	2.60E+01	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-9.41	2.33E+00	2.10E+01	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.784	3.67E+00	3.50E+01	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00924	2.53E-03	3.30E-02	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0112	5.67E-03	4.30E-02	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	6.33E-04	1.70E-02	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	8.67E-04	4.10E-02	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00905	1.50E-03	4.00E-02	—	pCi/L	U	U	09-3053	CAPA-09-12253	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00193	6.33E-04	3.50E-02	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.93E-03	3.40E-02	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.015	3.07E-03	5.90E-02	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0155	2.07E-03	2.80E-02	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00114	1.50E-03	4.40E-02	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00679	2.50E-03	4.50E-02	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0058	1.13E-03	3.50E-02	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	EPA:901.1	Potassium-40	<	20.1	7.33E+00	7.80E+01	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	12.9	7.00E+00	8.80E+01	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-8.51	6.33E+00	6.90E+01	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-11.7	4.67E+00	4.70E+01	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-16.1	6.00E+00	5.70E+01	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	24.6	5.00E+00	5.50E+01	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.61	7.33E-02	5.20E-01	—	pCi/L	—	U	12-253	CAPA-12-1124	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.499	8.00E-02	6.90E-01	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.182	5.67E-02	5.90E-01	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.497	5.33E-02	4.20E-01	—	pCi/L	—	—	12-253	CAPA-12-1124	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	1.71	1.70E-01	1.30E+00	—	pCi/L	—	—	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.146	6.33E-02	6.90E-01	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.491	6.67E-01	6.10E+00	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.46	5.00E-01	5.10E+00	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.855	4.67E-01	4.30E+00	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.0935	3.67E-01	3.70E+00	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.923	5.67E-01	5.80E+00	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.86	4.00E-01	3.10E+00	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	EPA:905.0	Strontium-90	<	0.28	5.00E-02	4.90E-01	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.15	4.33E-02	4.80E-01	—	pCi/L	U	U	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0533	4.33E-02	4.80E-01	—	pCi/L	U	U	10-3892	CAPA-10-24070	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0969	3.33E-02	3.50E-01	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.297	5.00E-02	4.90E-01	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.282	3.67E-02	4.80E-01	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.5	2.20E-01	2.21E+00	—	pCi/L	U	U	12-244	CAPA-12-1124	ARSL
R-40	649.7	10/20/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.82001	2.34E-01	2.08E+00	—	pCi/L	U	R	11-304	CAPA-10-26917	ARSL
R-40	649.7	10/20/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.79825	2.24E-01	2.17E+00	—	pCi/L	U	U	11-304	CAPA-10-26917	ARSL
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	4.56599	3.19E-01	1.98E+00	—	pCi/L	—	R	10-3986	CAPA-10-24070	ARSL
R-40	649.7	07/28/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.75615	2.24E-01	1.98E+00	—	pCi/L	U	U	10-3986	CAPA-10-24070	ARSL
R-40	649.7	03/03/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0	9.58E-02	2.87E-01	—	pCi/L	U	U	10-2274	CAPA-10-12851	UMTL
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.51088	9.58E-02	2.87E-01	—	pCi/L	—	U	10-845	CAPA-10-6790	UMTL
R-40	649.7	06/10/09	WG	F	CS	—	Rad	HASL-300	Uranium-234	—	0.266	1.20E-02	1.40E-01	—	pCi/L	—	—	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.67	1.90E-02	4.20E-02	—	pCi/L	—	—	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.274	1.10E-02	7.50E-02	—	pCi/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.294	1.23E-02	1.00E-01	—	pCi/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.254	9.33E-03	6.30E-02	—	pCi/L	—	—	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.305	1.47E-02	1.50E-01	—	pCi/L	—	—	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0261	3.67E-03	6.40E-02	—	pCi/L	U	U	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0244	2.40E-03	2.20E-02	—	pCi/L	—	—	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0032	1.07E-03	3.50E-02	—	pCi/L	U	U	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00388	1.30E-03	5.40E-02	—	pCi/L	U	U	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0235	2.43E-03	3.20E-02	—	pCi/L	U	U	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00923	4.33E-03	6.80E-02	—	pCi/L	U	U	09-2278	CAPA-09-9443	GELC
R-40	649.7	06/10/09	WG	F	CS	—	Rad	HASL-300	Uranium-238	—	0.0986	7.00E-03	6.40E-02	—	pCi/L	—	—	09-2278	CAPA-09-9445	GELC
R-40	649.7	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.274	9.33E-03	1.80E-02	—	pCi/L	—	—	12-253	CAPA-12-1124	GELC
R-40	649.7	07/28/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.137	7.33E-03	4.50E-02	—	pCi/L	—	—	10-3892	CAPA-10-24070	GELC
R-40	649.7	12/04/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.179	9.00E-03	6.40E-02	—	pCi/L	—	—	10-821	CAPA-10-6790	GELC
R-40	649.7	08/31/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.135	6.00E-03	3.20E-02	—	pCi/L	—	—	09-3053	CAPA-09-12253	GELC
R-40	649.7	06/10/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.149	9.00E-03	6.80E-02	—	pCi/L	—	—	09-2278	CAPA-09-9443	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	751.6	01/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	210	—	—	1.00E+00	µS/cm	—	—	11-1180	CAPA-11-2997	GELC
R-40	751.6	10/20/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	200	—	—	1.00E+00	µS/cm	—	—	11-223	CAPA-10-26920	GELC
R-40	751.6	01/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.48	—	—	1.00E-02	SU	H	J-	11-1180	CAPA-11-2997	GELC
R-40	751.6	10/20/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.36	—	—	1.00E-02	SU	H	J-	11-223	CAPA-10-26920	GELC
R-40	751.6	10/31/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	—	0.27	—	—	2.50E-01	µg/L	J	J	12-218	CAPA-12-1308	GELC
R-40	751.6	10/31/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	—	0.34	—	—	2.50E-01	µg/L	J	J	12-218	CAPA-12-1307	GELC
R-40	751.6	10/31/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	<	1	—	—	2.50E-01	µg/L	U	U	12-218	CAPA-12-1306	GELC
R-40	751.6	07/11/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	—	0.43	—	—	2.50E-01	µg/L	J	J	11-2793	CAPA-11-22709	GELC
R-40	751.6	05/05/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	<	1	—	—	2.50E-01	µg/L	U	U	11-2329	CAPA-11-9304	GELC
R-40	751.6	01/21/11	WG	UF	CS	—	VOA	SW-846:8260B	Trichloroethene	<	1	—	—	2.50E-01	µg/L	U	U	11-1178	CAPA-11-2996	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57	—	—	7.30E-01	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57.4	—	—	7.30E-01	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	55.5	—	—	7.30E-01	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.4	—	—	7.30E-01	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	58.6	—	—	7.30E-01	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.4	—	—	5.00E-02	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.4	—	—	5.00E-02	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.1	—	—	5.00E-02	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.5	—	—	5.00E-02	mg/L	—	—	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.8	—	—	5.00E-02	mg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.2	—	—	5.00E-02	mg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11	—	—	5.00E-02	mg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.85	—	—	6.60E-02	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.9	—	—	6.60E-02	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.03	—	—	6.60E-02	mg/L	—	—	11-2196	CAPA-11-9343	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.87	—	—	6.60E-02	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.84	—	—	6.60E-02	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.241	—	—	3.30E-02	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.22	—	—	3.30E-02	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.264	—	—	3.30E-02	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.217	—	—	3.30E-02	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.195	—	—	3.30E-02	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41	—	—	4.50E-01	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39.4	—	—	4.50E-01	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.4	—	—	4.50E-01	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.1	—	—	4.50E-01	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.1	—	—	3.50E-01	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.9	—	—	4.50E-01	mg/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39.8	—	—	4.50E-01	mg/L	—	—	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	42	—	—	4.50E-01	mg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39.8	—	—	4.50E-01	mg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39.8	—	—	3.50E-01	mg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.7	—	—	1.10E-01	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.67	—	—	1.10E-01	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.91	—	—	1.10E-01	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.87	—	—	1.10E-01	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3	—	—	8.50E-02	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.77	—	—	1.10E-01	mg/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.71	—	—	1.10E-01	mg/L	—	—	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.03	—	—	1.10E-01	mg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.86	—	—	1.10E-01	mg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.99	—	—	8.50E-02	mg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.0855	—	—	1.00E-02	mg/L	—	—	12-133	CAPA-12-1149	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.319	—	—	5.00E-02	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.363	—	—	1.00E-01	mg/L	J	J	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.359	—	—	5.00E-02	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	<	0.493	—	—	5.00E-02	mg/L	—	U	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.269	—	—	5.00E-02	µg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.277	—	—	5.00E-02	µg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.257	—	—	5.00E-02	µg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.289	—	—	5.00E-02	µg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.288	—	—	5.00E-02	µg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.52	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.42	—	—	5.00E-02	mg/L	—	J	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.57	—	—	5.00E-02	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.46	—	—	5.00E-02	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.62	—	—	5.00E-02	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.55	—	—	5.00E-02	mg/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.38	—	—	5.00E-02	mg/L	—	J	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.66	—	—	5.00E-02	mg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.52	—	—	5.00E-02	mg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.64	—	—	5.00E-02	mg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.92	—	—	1.00E-01	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.93	—	—	1.00E-01	mg/L	—	—	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	11-1139	CAPA-11-3030	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	122	—	—	1.00E+00	µS/cm	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	123	—	—	1.00E+00	µS/cm	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	121	—	—	1.00E+00	µS/cm	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	120	—	—	1.00E+00	µS/cm	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	125	—	—	1.00E+00	µS/cm	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2	—	—	1.00E-01	mg/L	—	J+	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.96	—	—	1.00E-01	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.17	—	—	1.00E-01	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.1	—	—	1.00E-01	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.19	—	—	1.00E-01	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	114	—	—	3.40E+00	mg/L	—	J	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	124	—	—	3.40E+00	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	133	—	—	2.40E+00	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	133	—	—	2.40E+00	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	136	—	—	2.40E+00	mg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.88	—	—	1.00E-02	SU	H	J-	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.03	—	—	1.00E-02	SU	H	J-	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.89	—	—	1.00E-02	SU	H	J-	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.9	—	—	1.00E-02	SU	H	J-	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.9	—	—	1.00E-02	SU	H	J-	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	—	3.38	—	—	1.70E+00	µg/L	J	J	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Arsenic	<	3.54	—	—	1.50E+00	µg/L	J	U	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	—	3.82	—	—	1.70E+00	µg/L	J	J	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2775	CAPA-11-22899	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	5	—	—	1.70E+00	µg/L	U	U	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Arsenic	<	4.14	—	—	1.50E+00	µg/L	J	U	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	24.7	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	24	—	—	1.00E+00	µg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	24.1	—	—	1.00E+00	µg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	25.4	—	—	1.00E+00	µg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	23.4	—	—	1.00E+00	µg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	24.7	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	24.5	—	—	1.00E+00	µg/L	—	—	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	25.2	—	—	1.00E+00	µg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	24.6	—	—	1.00E+00	µg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	24	—	—	1.00E+00	µg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.38	—	—	2.00E+00	µg/L	J	J	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	UN	UJ	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.31	—	—	2.00E+00	µg/L	J	J	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.12	—	—	2.00E+00	µg/L	J	J	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	UN	UJ	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.72	—	—	2.00E+00	µg/L	J	J	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	11-200	CAPA-10-27413	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	2.1	—	—	2.00E+00	µg/L	J	J	12-133	CAPA-12-1150	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.53	—	—	1.70E-01	µg/L	—	J	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.29	—	—	1.70E-01	µg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.27	—	—	1.70E-01	µg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.35	—	—	1.70E-01	µg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.76	—	—	1.00E-01	µg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.57	—	—	1.70E-01	µg/L	—	J	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.36	—	—	1.70E-01	µg/L	—	—	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.25	—	—	1.70E-01	µg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.45	—	—	1.70E-01	µg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.72	—	—	1.00E-01	µg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	UN	UJ	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.602	—	—	5.00E-01	µg/L	J	J	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.87	—	—	5.00E-01	µg/L	J	J	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.614	—	—	5.00E-01	µg/L	J	J	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	UN	UJ	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.64	—	—	5.00E-01	µg/L	J	J	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.906	—	—	5.00E-01	µg/L	J	J	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.561	—	—	5.00E-01	µg/L	J	J	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70.6	—	—	5.30E-02	mg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.5	—	—	5.30E-02	mg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71	—	—	5.30E-02	mg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	75.2	—	—	5.30E-02	mg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.7	—	—	5.30E-02	mg/L	—	—	11-200	CAPA-10-27412	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	50.4	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	49.1	—	—	1.00E+00	µg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	49.6	—	—	1.00E+00	µg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	52.5	—	—	1.00E+00	µg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	49.4	—	—	1.00E+00	µg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	51	—	—	1.00E+00	µg/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	49	—	—	1.00E+00	µg/L	—	—	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	51.6	—	—	1.00E+00	µg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	51.3	—	—	1.00E+00	µg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	49.8	—	—	1.00E+00	µg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.272	—	—	6.70E-02	µg/L	—	—	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.27	—	—	6.70E-02	µg/L	—	—	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.292	—	—	6.70E-02	µg/L	—	—	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.328	—	—	6.70E-02	µg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.298	—	—	5.00E-02	µg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.286	—	—	6.70E-02	µg/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.294	—	—	6.70E-02	µg/L	—	—	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.299	—	—	6.70E-02	µg/L	—	—	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.329	—	—	6.70E-02	µg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.31	—	—	5.00E-02	µg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.63	—	—	1.00E+00	µg/L	J	J	12-133	CAPA-12-1149	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.99	—	—	1.00E+00	µg/L	J	J	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.79	—	—	1.00E+00	µg/L	J	J	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.81	—	—	1.00E+00	µg/L	—	—	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.31	—	—	1.00E+00	µg/L	—	—	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.55	—	—	1.00E+00	µg/L	J	J	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.86	—	—	1.00E+00	µg/L	J	J	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.65	—	—	1.00E+00	µg/L	J	J	11-2196	CAPA-11-9344	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.06	—	—	1.00E+00	µg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.57	—	—	1.00E+00	µg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	3.5	—	—	3.30E+00	µg/L	J	J	11-2775	CAPA-11-22902	GELC
R-40	849.3	04/26/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2196	CAPA-11-9343	GELC
R-40	849.3	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	5.31	—	—	3.30E+00	µg/L	J	J	11-1139	CAPA-11-3029	GELC
R-40	849.3	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	6.56	—	—	3.30E+00	µg/L	J	J	11-200	CAPA-10-27412	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	4.92	—	—	3.30E+00	µg/L	J	J	12-133	CAPA-12-1150	GELC
R-40	849.3	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	5.76	—	—	3.30E+00	µg/L	J	J	11-2775	CAPA-11-22899	GELC
R-40	849.3	04/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	3.65	—	—	3.30E+00	µg/L	J	J	11-2196	CAPA-11-9344	GELC
R-40	849.3	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	11.5	—	—	3.30E+00	µg/L	—	—	11-1139	CAPA-11-3030	GELC
R-40	849.3	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	20.4	—	—	3.30E+00	µg/L	—	—	11-200	CAPA-10-27413	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00789	1.33E-03	3.20E-02	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00174	2.13E-03	3.80E-02	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0263	2.77E-03	3.20E-02	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.000952	1.43E-03	4.70E-02	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00285	6.00E-04	3.30E-02	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.7	4.67E-01	4.80E+00	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.83	7.33E-01	8.20E+00	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.57	4.00E-01	4.50E+00	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.202	5.67E-01	5.70E+00	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.957	5.33E-01	4.90E+00	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.39	6.00E-01	6.40E+00	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.116	5.67E-01	5.70E+00	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.158	4.00E-01	4.00E+00	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.701	5.67E-01	5.80E+00	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.82	5.67E-01	5.00E+00	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.178	1.70E-01	2.50E+00	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.04	3.00E-01	2.30E+00	—	pCi/L	U	U	10-3850	CAPA-10-24145	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-1.03	1.53E-01	2.90E+00	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.35	1.73E-01	2.10E+00	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.628	2.27E-01	2.50E+00	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.12	2.67E-01	2.30E+00	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.77	3.00E-01	2.90E+00	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.673	2.77E-01	2.80E+00	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	-0.00872	2.63E-01	2.80E+00	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.759	2.30E-01	2.30E+00	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.93	1.07E+00	1.10E+01	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	2.5	8.67E-01	9.10E+00	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	2.16	8.33E-01	8.40E+00	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	11.5	3.67E+00	3.60E+01	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	23.4	4.33E+00	4.30E+01	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00984	2.03E-03	4.30E-02	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00911	4.33E-03	2.00E-02	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	1.67E-03	3.80E-02	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0301	3.30E-03	4.20E-02	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0146	3.33E-03	3.60E-02	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00683	1.33E-03	4.20E-02	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.87E-03	3.30E-02	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00746	2.50E-03	3.40E-02	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00333	1.37E-03	3.00E-02	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00732	1.83E-03	3.90E-02	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-10.6	7.00E+00	7.90E+01	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-18.6	6.00E+00	5.70E+01	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	48.6	5.67E+00	2.70E+01	—	pCi/L	—	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	15.3	6.67E+00	7.30E+01	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-17.9	6.67E+00	5.90E+01	—	pCi/L	U	U	10-804	CAPA-10-6807	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	-0.189	4.33E-02	6.80E-01	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.184	5.67E-02	6.00E-01	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	09/03/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.536	6.33E-02	3.80E-01	—	pCi/L	—	U	09-3159	CAPA-09-12317	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.381	8.67E-02	8.40E-01	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.238	7.00E-02	7.20E-01	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	09/03/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.109	6.33E-02	7.00E-01	—	pCi/L	U	U	09-3159	CAPA-09-12317	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.14	5.67E-01	6.40E+00	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.44	4.33E-01	3.50E+00	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.535	3.67E-01	3.50E+00	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.919	6.00E-01	5.50E+00	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.98	5.33E-01	6.20E+00	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.113	4.67E-02	4.90E-01	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.461	5.33E-02	4.70E-01	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.00441	4.33E-02	4.90E-01	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.111	4.33E-02	4.80E-01	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.113	4.67E-02	4.90E-01	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.03	2.03E-01	2.09E+00	—	pCi/L	U	U	12-171	CAPA-12-1150	ARSL
R-40	849.3	07/08/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.6386	1.70E-01	1.79E+00	—	pCi/L	U	U	11-2800	CAPA-11-22899	ARSL
R-40	849.3	04/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.04352	2.66E-01	2.68E+00	—	pCi/L	U	U	11-2197	CAPA-11-9344	ARSL
R-40	849.3	01/19/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.78808	2.24E-01	1.95E+00	—	pCi/L	U	R	11-1211	CAPA-11-3030	ARSL
R-40	849.3	01/19/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.19158	1.92E-01	1.95E+00	—	pCi/L	U	U	11-1211	CAPA-11-3030	ARSL
R-40	849.3	10/19/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.50071	2.24E-01	2.08E+00	—	pCi/L	U	R	11-304	CAPA-10-27413	ARSL
R-40	849.3	10/19/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.35123	2.13E-01	2.20E+00	—	pCi/L	U	U	11-304	CAPA-10-27413	ARSL
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.174	9.33E-03	5.10E-02	—	pCi/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.255	1.17E-02	9.30E-02	—	pCi/L	—	—	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.307	1.23E-02	6.40E-02	—	pCi/L	—	—	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.312	1.30E-02	5.30E-02	—	pCi/L	—	—	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.311	1.37E-02	1.20E-01	—	pCi/L	—	—	10-804	CAPA-10-6807	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0151	2.53E-03	3.80E-02	—	pCi/L	U	U	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00396	2.30E-03	4.40E-02	—	pCi/L	U	U	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0108	2.10E-03	4.30E-02	—	pCi/L	U	U	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.000241	1.70E-03	4.20E-02	—	pCi/L	U	U	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0	2.17E-03	6.30E-02	—	pCi/L	U	U	10-804	CAPA-10-6807	GELC
R-40	849.3	10/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0915	6.67E-03	6.00E-02	—	pCi/L	—	—	12-133	CAPA-12-1150	GELC
R-40	849.3	07/27/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.112	7.00E-03	5.60E-02	—	pCi/L	—	—	10-3850	CAPA-10-24145	GELC
R-40	849.3	06/03/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.143	7.67E-03	4.80E-02	—	pCi/L	—	—	10-3308	CAPA-10-17908	GELC
R-40	849.3	02/23/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.103	6.67E-03	3.80E-02	—	pCi/L	—	—	10-2040	CAPA-10-12917	GELC
R-40	849.3	12/03/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.107	7.67E-03	7.60E-02	—	pCi/L	—	—	10-804	CAPA-10-6807	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	67.9	—	—	7.30E-01	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	69.4	—	—	7.30E-01	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	68.3	—	—	7.30E-01	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	69.9	—	—	7.30E-01	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	66.2	—	—	7.30E-01	mg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.067	—	—	6.60E-02	mg/L	J	J	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0761	—	—	6.60E-02	mg/L	J	J	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	15.6	—	—	5.00E-02	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	15.2	—	—	5.00E-02	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.6	—	—	5.00E-02	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.5	—	—	5.00E-02	mg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.8	—	—	5.00E-02	mg/L	—	—	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15.6	—	—	5.00E-02	mg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15.9	—	—	5.00E-02	mg/L	—	—	11-2142	CAPA-11-9358	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15.2	—	—	5.00E-02	mg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15.1	—	—	5.00E-02	mg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.01	—	—	6.60E-02	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.11	—	—	6.60E-02	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.98	—	—	6.60E-02	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.02	—	—	6.60E-02	mg/L	—	J	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.05	—	—	6.60E-02	mg/L	—	J+	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.346	—	—	3.30E-02	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.33	—	—	3.30E-02	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.337	—	—	3.30E-02	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.306	—	—	3.30E-02	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.298	—	—	3.30E-02	mg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	53.8	—	—	4.50E-01	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	55.8	—	—	4.50E-01	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	54.8	—	—	4.50E-01	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	52.3	—	—	3.50E-01	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	52.4	—	—	3.50E-01	mg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	52.8	—	—	4.50E-01	mg/L	—	—	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	55.5	—	—	4.50E-01	mg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	57.4	—	—	4.50E-01	mg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	54.5	—	—	3.50E-01	mg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	54.3	—	—	3.50E-01	mg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.96	—	—	1.10E-01	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.07	—	—	1.10E-01	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.08	—	—	1.10E-01	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.84	—	—	8.50E-02	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.9	—	—	8.50E-02	mg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.85	—	—	1.10E-01	mg/L	—	—	12-169	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.01	—	—	1.10E-01	mg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.28	—	—	1.10E-01	mg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4	—	—	8.50E-02	mg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.05	—	—	8.50E-02	mg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.785	—	—	5.00E-02	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.71	—	—	5.00E-02	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.685	—	—	1.00E-01	mg/L	—	J+	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.575	—	—	5.00E-02	mg/L	—	J-	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.555	—	—	5.00E-02	mg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.385	—	—	5.00E-02	µg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.403	—	—	5.00E-02	µg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.375	—	—	5.00E-02	µg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.395	—	—	5.00E-02	µg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.421	—	—	5.00E-02	µg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.86	—	—	5.00E-02	mg/L	—	J	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.8	—	—	5.00E-02	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.95	—	—	5.00E-02	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.99	—	—	5.00E-02	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.89	—	—	5.00E-02	mg/L	—	J	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.89	—	—	5.00E-02	mg/L	—	J	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.81	—	—	5.00E-02	mg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.96	—	—	5.00E-02	mg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.06	—	—	5.00E-02	mg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.98	—	—	5.00E-02	mg/L	—	J	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.7	—	—	1.00E-01	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.3	—	—	1.00E-01	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.2	—	—	1.00E-01	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.3	—	—	1.00E-01	mg/L	—	—	11-1069	CAPA-11-3033	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.1	—	—	1.00E-01	mg/L	—	J+	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.4	—	—	1.00E-01	mg/L	—	—	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.9	—	—	1.00E-01	mg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.7	—	—	1.00E-01	mg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.8	—	—	1.00E-01	mg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	1.00E-01	mg/L	—	J+	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	155	—	—	1.00E+00	µS/cm	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	157	—	—	1.00E+00	µS/cm	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	158	—	—	1.00E+00	µS/cm	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	162	—	—	1.00E+00	µS/cm	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	165	—	—	1.00E+00	µS/cm	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.48	—	—	1.00E-01	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.36	—	—	1.00E-01	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.55	—	—	1.00E-01	mg/L	—	J	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.5	—	—	1.00E-01	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.64	—	—	1.00E-01	mg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	150	—	—	3.40E+00	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	3.40E+00	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	147	—	—	2.40E+00	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	132	—	—	2.40E+00	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	167	—	—	2.40E+00	mg/L	—	J	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.0423	—	—	3.50E-02	mg/L	J	J-	12-168	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.5	—	—	1.80E-01	mg/L	U	U	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.1	—	—	3.50E-02	mg/L	U	U	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.035	—	—	3.30E-02	mg/L	J	J-	11-1068	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.1	—	—	3.30E-02	mg/L	U	UJ	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.6	—	—	3.30E-01	mg/L	J	J	12-168	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.43	—	—	3.30E-01	mg/L	J	J	11-2846	CAPA-11-22904	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.428	—	—	3.30E-01	mg/L	J	J	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-1068	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	0.416	—	—	3.30E-01	mg/L	J	U	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.99	—	—	1.00E-02	SU	H	J-	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8	—	—	1.00E-02	SU	H	J-	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.9	—	—	1.00E-02	SU	H	J-	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.06	—	—	1.00E-02	SU	H	J-	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.96	—	—	1.00E-02	SU	H	J-	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	25.5	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	26.1	—	—	1.00E+00	µg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	26.6	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	27.9	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	27.7	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	25.1	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	25.9	—	—	1.00E+00	µg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	27.6	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	28.9	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	28.9	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	15	—	—	1.50E+01	µg/L	J	J	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	16.9	—	—	1.50E+01	µg/L	J	J	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	19.9	—	—	1.50E+01	µg/L	J	J	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	15.1	—	—	1.50E+01	µg/L	J	J	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	18.3	—	—	1.50E+01	µg/L	J	J	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	19.5	—	—	1.50E+01	µg/L	J	J	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-97	CAPA-10-27405	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.42	—	—	1.70E-01	µg/L	—	J	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.82	—	—	1.70E-01	µg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.85	—	—	1.70E-01	µg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.51	—	—	1.70E-01	µg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.29	—	—	1.00E-01	µg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	3.27	—	—	1.70E-01	µg/L	—	J	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.89	—	—	1.70E-01	µg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.8	—	—	1.70E-01	µg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	3.57	—	—	1.70E-01	µg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	4.01	—	—	1.00E-01	µg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	5.13	—	—	5.00E-01	µg/L	—	J	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.62	—	—	5.00E-01	µg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.12	—	—	5.00E-01	µg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.59	—	—	5.00E-01	µg/L	J	J	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.83	—	—	5.00E-01	µg/L	J	J	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	5.14	—	—	5.00E-01	µg/L	—	J	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.81	—	—	5.00E-01	µg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.17	—	—	5.00E-01	µg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.82	—	—	5.00E-01	µg/L	J	J	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.49	—	—	5.00E-01	µg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	66.4	—	—	5.30E-02	mg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.5	—	—	5.30E-02	mg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.7	—	—	5.30E-02	mg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.6	—	—	5.30E-02	mg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	60.5	—	—	5.30E-02	mg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	75.6	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	74.5	—	—	1.00E+00	µg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	75.1	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9357	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	77.5	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	75	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	74.7	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	74.7	—	—	1.00E+00	µg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	78.9	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	80.6	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	78.2	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.539	—	—	6.70E-02	µg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.492	—	—	6.70E-02	µg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.393	—	—	6.70E-02	µg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.556	—	—	6.70E-02	µg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.684	—	—	5.00E-02	µg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.532	—	—	6.70E-02	µg/L	—	—	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.507	—	—	6.70E-02	µg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.399	—	—	6.70E-02	µg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.541	—	—	6.70E-02	µg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.709	—	—	5.00E-02	µg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.13	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1183	GELC
R-41	965.3	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.04	—	—	1.00E+00	µg/L	—	—	11-2846	CAPA-11-22906	GELC
R-41	965.3	04/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.77	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9357	GELC
R-41	965.3	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.23	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3033	GELC
R-41	965.3	10/08/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.87	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27404	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.92	—	—	1.00E+00	µg/L	—	—	12-169	CAPA-12-1182	GELC
R-41	965.3	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.72	—	—	1.00E+00	µg/L	—	—	11-2846	CAPA-11-22904	GELC
R-41	965.3	04/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.92	—	—	1.00E+00	µg/L	—	—	11-2142	CAPA-11-9358	GELC
R-41	965.3	01/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.5	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3032	GELC
R-41	965.3	10/08/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.11	—	—	1.00E+00	µg/L	—	—	11-97	CAPA-10-27405	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00293	1.70E-03	4.60E-02	—	pCi/L	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0057	1.07E-03	3.70E-02	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00169	9.33E-04	2.20E-02	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00111	1.33E-03	4.30E-02	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000455	5.67E-04	3.00E-02	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.27	4.33E-01	5.10E+00	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.75	5.67E-01	5.10E+00	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.24	5.67E-01	5.50E+00	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.279	3.67E-01	3.70E+00	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.0657	3.33E-01	3.40E+00	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.14	4.67E-01	5.70E+00	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.584	5.33E-01	5.50E+00	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.901	6.00E-01	5.50E+00	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.173	4.33E-01	4.20E+00	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.383	4.33E-01	4.30E+00	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.88	1.93E-01	3.00E+00	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.484	2.30E-01	2.70E+00	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.439	2.13E-01	2.50E+00	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.627	2.23E-01	2.50E+00	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.124	1.97E-01	2.70E+00	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	4.83	3.67E-01	2.90E+00	—	pCi/L	—	—	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.34	2.93E-01	2.70E+00	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.76	2.63E-01	2.30E+00	—	pCi/L	—	—	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.68	2.47E-01	2.60E+00	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.438	2.20E-01	2.40E+00	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-4.74	1.00E+00	9.40E+00	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.38	1.10E+00	1.10E+01	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	3.44	1.17E+00	1.20E+01	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-7.32	3.33E+00	3.10E+01	—	pCi/L	U	U	10-2176	CAPA-10-12919	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	10.5	3.33E+00	3.50E+01	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	7.33E-04	3.80E-02	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	4.23E-10	2.37E-03	3.20E-02	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00348	1.83E-03	2.60E-02	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0475	5.00E-03	4.80E-02	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	6.67E-04	2.90E-02	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00867	1.47E-03	3.70E-02	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	2.12E-10	1.67E-03	5.20E-02	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-8.28E-10	1.43E-03	2.40E-02	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00374	1.53E-03	3.30E-02	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00395	9.33E-04	3.10E-02	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-19.6	6.67E+00	7.30E+01	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-22.8	7.00E+00	6.70E+01	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	11.6	6.33E+00	6.40E+01	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-19.7	5.67E+00	5.30E+01	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-7.23	5.33E+00	5.60E+01	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.43	5.00E-02	2.70E-01	—	pCi/L	—	U	12-170	CAPA-12-1182	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.122	2.90E-02	2.90E-01	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	09/01/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	-0.0806	5.00E-02	8.00E-01	—	pCi/L	U	U	09-3091	CAPA-09-12294	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.635	5.33E-02	3.60E-01	—	pCi/L	—	—	12-170	CAPA-12-1182	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.472	7.33E-02	6.40E-01	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	09/01/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.367	6.00E-02	5.50E-01	—	pCi/L	U	U	09-3091	CAPA-09-12294	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.152	5.33E-01	5.90E+00	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.142	5.00E-01	5.00E+00	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-4.8	6.00E-01	4.10E+00	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.127	4.33E-01	4.10E+00	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.46	5.00E-01	5.00E+00	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.137	4.33E-02	4.90E-01	—	pCi/L	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0263	4.33E-02	4.80E-01	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.168	4.00E-02	4.80E-01	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.419	5.00E-02	4.70E-01	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.291	3.67E-02	4.40E-01	—	pCi/L	U	U	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.25	2.00E-01	2.02E+00	—	pCi/L	U	U	12-171	CAPA-12-1182	ARSL
R-41	965.3	07/15/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.12772	2.45E-01	2.46E+00	—	pCi/L	U	U	11-2878	CAPA-11-22904	ARSL
R-41	965.3	04/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.86211	2.45E-01	2.49E+00	—	pCi/L	U	U	11-2197	CAPA-11-9358	ARSL
R-41	965.3	01/12/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.01159	2.34E-01	2.08E+00	—	pCi/L	U	R	11-1122	CAPA-11-3032	ARSL
R-41	965.3	01/12/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.78808	2.34E-01	2.08E+00	—	pCi/L	U	U	11-1122	CAPA-11-3032	ARSL
R-41	965.3	10/08/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	6.25828	4.15E-01	2.43E+00	—	pCi/L	—	—	11-112	CAPA-10-27405	ARSL
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.335	1.40E-02	5.50E-02	—	pCi/L	—	—	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.511	1.77E-02	8.10E-02	—	pCi/L	—	—	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.539	1.80E-02	5.80E-02	—	pCi/L	—	—	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.436	1.63E-02	5.20E-02	—	pCi/L	—	—	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.553	1.60E-02	5.20E-02	—	pCi/L	—	—	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00405	2.33E-03	4.00E-02	—	pCi/L	U	U	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0104	2.00E-03	3.80E-02	—	pCi/L	U	U	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0294	3.67E-03	3.90E-02	—	pCi/L	U	U	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0148	2.50E-03	4.10E-02	—	pCi/L	U	U	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0334	2.80E-03	2.70E-02	—	pCi/L	—	—	10-953	CAPA-10-6818	GELC
R-41	965.3	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.164	8.67E-03	6.40E-02	—	pCi/L	—	—	12-170	CAPA-12-1182	GELC
R-41	965.3	08/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.182	8.67E-03	4.90E-02	—	pCi/L	—	—	10-4075	CAPA-10-24131	GELC
R-41	965.3	06/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.211	9.33E-03	4.30E-02	—	pCi/L	—	—	10-3368	CAPA-10-17910	GELC
R-41	965.3	02/26/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.179	9.00E-03	3.70E-02	—	pCi/L	—	—	10-2176	CAPA-10-12919	GELC
R-41	965.3	12/15/09	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.245	8.67E-03	3.30E-02	—	pCi/L	—	—	10-953	CAPA-10-6818	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	67.4	—	—	7.30E-01	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	68.3	—	—	7.30E-01	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.2	—	—	7.30E-01	mg/L	—	—	11-2263	CAPA-11-9367	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	69.9	—	—	7.30E-01	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	66.2	—	—	7.30E-01	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0207	—	—	1.60E-02	mg/L	J	J	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0166	—	—	1.60E-02	mg/L	J	J	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0976	—	—	1.60E-02	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.043	—	—	1.60E-02	mg/L	J	U	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0683	—	—	6.60E-02	mg/L	J	J-	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0797	—	—	6.60E-02	mg/L	J	J	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.6	—	—	5.00E-02	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.8	—	—	5.00E-02	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.6	—	—	5.00E-02	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.4	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.4	—	—	5.00E-02	mg/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.2	—	—	5.00E-02	mg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.67	—	—	6.60E-02	mg/L	—	J-	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.75	—	—	6.60E-02	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.89	—	—	6.60E-02	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.75	—	—	6.60E-02	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.76	—	—	6.60E-02	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.305	—	—	3.30E-02	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.291	—	—	3.30E-02	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.334	—	—	3.30E-02	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.255	—	—	3.30E-02	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.292	—	—	3.30E-02	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45.6	—	—	4.50E-01	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.3	—	—	4.50E-01	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.5	—	—	4.50E-01	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.5	—	—	4.50E-01	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	42.2	—	—	3.50E-01	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	50	—	—	4.50E-01	mg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	45.9	—	—	4.50E-01	mg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46	—	—	4.50E-01	mg/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	48.9	—	—	4.50E-01	mg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	43.5	—	—	3.50E-01	mg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.53	—	—	1.10E-01	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.59	—	—	1.10E-01	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.75	—	—	1.10E-01	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.68	—	—	1.10E-01	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.46	—	—	8.50E-02	mg/L	—	J	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.92	—	—	1.10E-01	mg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.55	—	—	1.10E-01	mg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.64	—	—	1.10E-01	mg/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.85	—	—	1.10E-01	mg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.55	—	—	8.50E-02	mg/L	—	J	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.63	—	—	5.00E-02	mg/L	—	J	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.515	—	—	5.00E-02	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.405	—	—	1.00E-02	mg/L	—	J-	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.555	—	—	5.00E-02	mg/L	—	—	11-1142	CAPA-11-3037	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.457	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.311	—	—	5.00E-02	µg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.293	—	—	5.00E-02	µg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.29	—	—	5.00E-02	µg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.307	—	—	5.00E-02	µg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.295	—	—	5.00E-02	µg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.66	—	—	5.00E-02	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.69	—	—	5.00E-02	mg/L	—	J	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.9	—	—	5.00E-02	mg/L	—	J	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.84	—	—	5.00E-02	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.54	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.1	—	—	5.00E-02	mg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.63	—	—	5.00E-02	mg/L	—	J	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.8	—	—	5.00E-02	mg/L	—	J	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.03	—	—	5.00E-02	mg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.57	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.8	—	—	1.00E-01	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.1	—	—	1.00E-01	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.5	—	—	1.00E-01	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	16.6	—	—	1.00E-01	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.3	—	—	1.00E-01	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.3	—	—	1.00E-01	mg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15	—	—	1.00E-01	mg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15	—	—	1.00E-01	mg/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	17.1	—	—	1.00E-01	mg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15.6	—	—	1.00E-01	mg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	149	—	—	1.00E+00	µS/cm	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	151	—	—	1.00E+00	µS/cm	—	—	11-2778	CAPA-11-22698	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	155	—	—	1.00E+00	µS/cm	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	156	—	—	1.00E+00	µS/cm	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	160	—	—	1.00E+00	µS/cm	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.12	—	—	1.00E-01	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.07	—	—	1.00E-01	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.56	—	—	1.00E-01	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.43	—	—	1.00E-01	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.59	—	—	1.00E-01	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	146	—	—	3.40E+00	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	144	—	—	3.40E+00	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	144	—	—	2.40E+00	mg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	145	—	—	2.40E+00	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	146	—	—	2.40E+00	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.726	—	—	3.30E-01	mg/L	J	J	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.2	—	—	3.30E-01	mg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.666	—	—	3.30E-01	mg/L	J	J	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.15	—	—	3.30E-01	mg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.31	—	—	3.30E-01	mg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.99	—	—	1.00E-02	SU	H	J-	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.07	—	—	1.00E-02	SU	H	J-	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.99	—	—	1.00E-02	SU	H	J-	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.11	—	—	1.00E-02	SU	H	J-	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.12	—	—	1.00E-02	SU	H	J-	11-93	CAPA-10-27420	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	1040	—	—	6.80E+01	µg/L	—	—	12-195	CAPA-12-1153	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	77.2	—	—	6.80E+01	µg/L	J	J	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	69	—	—	6.80E+01	µg/L	J	J	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	76.2	—	—	6.80E+01	µg/L	J	J	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	—	141	—	—	6.80E+01	µg/L	J	J	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	18.6	—	—	1.00E+00	µg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.4	—	—	1.00E+00	µg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.6	—	—	1.00E+00	µg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	21	—	—	1.00E+00	µg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.8	—	—	1.00E+00	µg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	46	—	—	1.00E+00	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	19.8	—	—	1.00E+00	µg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	19.7	—	—	1.00E+00	µg/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	24	—	—	1.00E+00	µg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	21.7	—	—	1.00E+00	µg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	UJ	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.18	—	—	2.00E+00	µg/L	J	J	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.83	—	—	2.50E+00	µg/L	J	J	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.3	—	—	2.00E+00	µg/L	J	J	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	UJ	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.62	—	—	2.00E+00	µg/L	J	J	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.38	—	—	2.50E+00	µg/L	J	J	11-93	CAPA-10-27418	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Copper	—	14.9	—	—	3.00E+00	µg/L	—	—	12-195	CAPA-12-1153	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Copper	—	3.24	—	—	3.00E+00	µg/L	J	J	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	31.2	—	—	3.00E+01	µg/L	J	J	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	498	—	—	3.00E+01	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	34.1	—	—	3.00E+01	µg/L	J	J	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	35.4	—	—	3.00E+01	µg/L	J	J	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	151	—	—	3.00E+01	µg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	52.3	—	—	3.00E+01	µg/L	J	J	11-93	CAPA-10-27418	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Lead	—	3.16	—	—	5.00E-01	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Lead	<	2	—	—	5.00E-01	µg/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Lead	—	0.699	—	—	5.00E-01	µg/L	J	J	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6020	Lead	—	0.535	—	—	5.00E-01	µg/L	J	J	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	3.57	—	—	2.00E+00	µg/L	J	J	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	4.28	—	—	2.00E+00	µg/L	J	J	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	4.97	—	—	2.00E+00	µg/L	J	J	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	5.21	—	—	2.00E+00	µg/L	J	J	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	5.92	—	—	2.00E+00	µg/L	J	J	11-93	CAPA-10-27420	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	15.7	—	—	2.00E+00	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	4.84	—	—	2.00E+00	µg/L	J	J	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	4.82	—	—	2.00E+00	µg/L	J	J	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	9.62	—	—	2.00E+00	µg/L	J	J	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	7.15	—	—	2.00E+00	µg/L	J	J	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.9	—	—	1.70E-01	µg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.93	—	—	1.70E-01	µg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.06	—	—	1.70E-01	µg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.13	—	—	1.70E-01	µg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.44	—	—	1.00E-01	µg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.09	—	—	1.70E-01	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.9	—	—	1.70E-01	µg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.07	—	—	1.70E-01	µg/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.11	—	—	1.70E-01	µg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.66	—	—	1.00E-01	µg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.929	—	—	5.00E-01	µg/L	J	J	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.612	—	—	5.00E-01	µg/L	J	J	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.879	—	—	5.00E-01	µg/L	J	J	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.16	—	—	5.00E-01	µg/L	J	J	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.68	—	—	5.00E-01	µg/L	J	J	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.82	—	—	5.00E-01	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.725	—	—	5.00E-01	µg/L	J	J	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.872	—	—	5.00E-01	µg/L	J	J	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.57	—	—	5.00E-01	µg/L	J	J	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.33	—	—	5.00E-01	µg/L	J	J	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	66.5	—	—	5.30E-02	mg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.2	—	—	5.30E-02	mg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.9	—	—	5.30E-02	mg/L	—	—	11-2263	CAPA-11-9367	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.4	—	—	5.30E-02	mg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.9	—	—	5.30E-02	mg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.8	—	—	1.00E+00	µg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	57.6	—	—	1.00E+00	µg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	58.1	—	—	1.00E+00	µg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	61.7	—	—	1.00E+00	µg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	57.8	—	—	1.00E+00	µg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	69.1	—	—	1.00E+00	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	58.1	—	—	1.00E+00	µg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	56.5	—	—	1.00E+00	µg/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	65.1	—	—	1.00E+00	µg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	59.6	—	—	1.00E+00	µg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.747	—	—	6.70E-02	µg/L	—	—	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.861	—	—	6.70E-02	µg/L	—	—	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.878	—	—	6.70E-02	µg/L	—	—	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.07	—	—	6.70E-02	µg/L	—	—	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.26	—	—	5.00E-02	µg/L	—	—	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.72	—	—	6.70E-02	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.917	—	—	6.70E-02	µg/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.89	—	—	6.70E-02	µg/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.22	—	—	6.70E-02	µg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.48	—	—	5.00E-02	µg/L	—	—	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.92	—	—	1.00E+00	µg/L	J	J	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.73	—	—	1.00E+00	µg/L	J	J	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.78	—	—	1.00E+00	µg/L	J	J	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.13	—	—	1.00E+00	µg/L	J	J	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.87	—	—	1.00E+00	µg/L	J	J	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.74	—	—	1.00E+00	µg/L	J	J	12-195	CAPA-12-1153	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.68	—	—	1.00E+00	µg/L	J	J	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.24	—	—	1.00E+00	µg/L	J	J	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.14	—	—	1.00E+00	µg/L	J	J	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.21	—	—	1.00E+00	µg/L	J	J	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	4.04	—	—	3.30E+00	µg/L	J	J	12-195	CAPA-12-1151	GELC
R-49	845	07/08/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2778	CAPA-11-22698	GELC
R-49	845	05/02/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2263	CAPA-11-9367	GELC
R-49	845	01/19/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	3.96	—	—	3.30E+00	µg/L	J	J	11-1142	CAPA-11-3037	GELC
R-49	845	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-93	CAPA-10-27420	GELC
R-49	845	10/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	18.7	—	—	3.30E+00	µg/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	7.64	—	—	3.30E+00	µg/L	J	J	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	11.2	—	—	3.30E+00	µg/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	3.92	—	—	3.30E+00	µg/L	J	J	11-93	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00664	1.97E-03	3.40E-02	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-0.366	9.67E-01	8.40E+00	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00827	2.17E-03	2.80E-02	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-3.09	1.73E+00	1.70E+01	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0149	2.37E-03	5.00E-02	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000721	2.90E-03	2.90E-02	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000371	9.00E-04	3.60E-02	—	pCi/L	U	U	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.839	4.00E-01	4.00E+00	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-6.32	7.67E-01	7.70E+00	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.129	4.33E-01	4.30E+00	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.78	3.67E-01	2.90E+00	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.703	5.33E-01	5.20E+00	—	pCi/L	U	U	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.0691	3.67E-01	4.30E+00	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.09	6.33E-01	6.60E+00	—	pCi/L	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.24	5.00E-01	4.60E+00	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.18	3.33E-01	3.30E+00	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.635	5.33E-01	5.50E+00	—	pCi/L	U	U	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.72	3.13E-01	2.80E+00	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.964	2.33E-01	2.40E+00	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.14	2.93E-01	2.90E+00	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.93	2.80E-01	2.00E+00	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	—	4.67	4.33E-01	2.40E+00	—	pCi/L	—	—	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	4.83	3.67E-01	2.50E+00	—	pCi/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.852	2.60E-01	2.60E+00	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.68	3.00E-01	2.60E+00	—	pCi/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.62	3.67E-01	3.30E+00	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	5.02	3.67E-01	2.60E+00	—	pCi/L	—	—	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.6	8.00E-01	8.20E+00	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	2.44	8.00E-01	8.00E+00	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	4.27	8.33E-01	9.00E+00	—	pCi/L	U	U	11-92	CAPA-10-27418	GELC
R-49	845	07/29/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.00819	1.03E+00	9.30E+00	—	pCi/L	U	U	10-3907	CAPA-10-24650	GELC
R-49	845	06/14/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	5.69	8.33E-01	8.90E+00	—	pCi/L	U	U	10-3411	CAPA-10-17856	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0124	2.97E-03	4.30E-02	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00232	1.73E-03	3.50E-02	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00169	1.70E-03	2.70E-02	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00575	1.43E-03	2.10E-02	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00403	9.67E-04	2.30E-02	—	pCi/L	U	U	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00247	1.43E-03	4.20E-02	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00464	2.43E-03	4.80E-02	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00506	1.13E-03	4.30E-02	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	6.33E-04	3.80E-02	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00202	1.17E-03	3.90E-02	—	pCi/L	U	U	11-92	CAPA-10-27418	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	22.5	8.33E+00	4.60E+01	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-32.4	6.67E+00	6.40E+01	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	13.7	8.00E+00	8.10E+01	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	10.3	5.67E+00	6.10E+01	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	20.3	5.67E+00	6.20E+01	—	pCi/L	U	U	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0	3.33E-02	4.10E-01	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	03/03/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.133	3.27E-02	3.30E-01	—	pCi/L	U	U	10-2296	CAPA-10-12903	GELC
R-49	845	09/01/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.245	6.67E-02	6.80E-01	—	pCi/L	U	U	09-3085	CAPA-09-12297	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.286	4.67E-02	4.40E-01	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	03/03/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.204	5.67E-02	5.80E-01	—	pCi/L	U	U	10-2296	CAPA-10-12903	GELC
R-49	845	09/01/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	1.57	1.37E-01	8.70E-01	—	pCi/L	—	—	09-3085	CAPA-09-12297	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.576	4.00E-01	4.90E+00	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.35	5.33E-01	4.90E+00	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.11	4.67E-01	4.20E+00	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.07	4.67E-01	5.00E+00	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.688	5.33E-01	5.40E+00	—	pCi/L	U	U	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.329	4.33E-02	4.80E-01	—	pCi/L	U	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.187	4.00E-02	4.80E-01	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0919	4.67E-02	5.00E-01	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.188	4.33E-02	4.80E-01	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.14	4.67E-02	4.90E-01	—	pCi/L	U	U	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.3	2.17E-01	2.19E+00	—	pCi/L	U	U	12-244	CAPA-12-1153	ARSL
R-49	845	07/08/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.19158	2.34E-01	2.36E+00	—	pCi/L	U	U	11-2800	CAPA-11-22697	ARSL
R-49	845	05/02/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.12772	2.45E-01	2.46E+00	—	pCi/L	U	U	11-2264	CAPA-11-9366	ARSL
R-49	845	01/19/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.52247	3.09E-01	2.71E+00	—	pCi/L	U	R	11-1211	CAPA-11-3036	ARSL
R-49	845	01/19/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.25544	2.66E-01	2.71E+00	—	pCi/L	U	U	11-1211	CAPA-11-3036	ARSL
R-49	845	10/07/10	WG	UF	CS	—	Rad	LLEE	Tritium	—	3.38458	3.19E-01	2.59E+00	—	pCi/L	—	—	11-112	CAPA-10-27418	ARSL
R-49	845	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.894	2.73E-02	4.90E-02	—	pCi/L	—	—	12-195	CAPA-12-1153	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.729	2.37E-02	6.60E-02	—	pCi/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.818	2.87E-02	1.20E-01	—	pCi/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.923	2.70E-02	5.00E-02	—	pCi/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	1.15	3.07E-02	3.20E-02	—	pCi/L	—	—	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0363	4.33E-03	3.60E-02	—	pCi/L	—	U	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0149	4.00E-03	3.60E-02	—	pCi/L	U	U	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0111	6.00E-03	9.00E-02	—	pCi/L	U	U	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.025	3.00E-03	3.70E-02	—	pCi/L	U	U	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0546	4.33E-03	2.50E-02	—	pCi/L	—	—	11-92	CAPA-10-27418	GELC
R-49	845	10/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.494	1.73E-02	5.70E-02	—	pCi/L	—	—	12-195	CAPA-12-1153	GELC
R-49	845	07/08/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.265	1.17E-02	4.00E-02	—	pCi/L	—	—	11-2778	CAPA-11-22697	GELC
R-49	845	05/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.279	1.40E-02	6.10E-02	—	pCi/L	—	—	11-2263	CAPA-11-9366	GELC
R-49	845	01/19/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.338	1.27E-02	3.50E-02	—	pCi/L	—	—	11-1142	CAPA-11-3036	GELC
R-49	845	10/07/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.459	1.47E-02	2.00E-02	—	pCi/L	—	—	11-92	CAPA-10-27418	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.9	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	64.9	—	—	7.30E-01	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.6	—	—	7.30E-01	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.6	—	—	7.30E-01	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.3	—	—	7.30E-01	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.3	—	—	5.00E-02	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13	—	—	5.00E-02	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.8	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.8	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3039	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.4	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.45	—	—	6.60E-02	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.54	—	—	6.60E-02	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.34	—	—	6.60E-02	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.44	—	—	6.60E-02	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.301	—	—	3.30E-02	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.278	—	—	3.30E-02	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.312	—	—	3.30E-02	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.268	—	—	3.30E-02	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.288	—	—	3.30E-02	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.7	—	—	4.50E-01	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	44.1	—	—	4.50E-01	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.4	—	—	4.50E-01	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.2	—	—	4.50E-01	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	<	1.24	—	—	3.50E-01	mg/L	U	U	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	49.5	—	—	4.50E-01	mg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46	—	—	4.50E-01	mg/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	50.5	—	—	4.50E-01	mg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	45.3	—	—	4.50E-01	mg/L	—	—	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.5	—	—	3.50E-01	mg/L	—	—	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.45	—	—	1.10E-01	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.23	—	—	1.10E-01	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.59	—	—	1.10E-01	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.47	—	—	1.10E-01	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.41	—	—	8.50E-02	mg/L	—	J	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.67	—	—	1.10E-01	mg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.37	—	—	1.10E-01	mg/L	—	—	11-2926	CAPA-11-22909	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.83	—	—	1.10E-01	mg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.39	—	—	1.10E-01	mg/L	—	—	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.39	—	—	8.50E-02	mg/L	—	J	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.67	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.725	—	—	5.00E-02	mg/L	—	J-	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.566	—	—	1.00E-02	mg/L	—	J-	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.635	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.6	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.357	—	—	5.00E-02	µg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.339	—	—	5.00E-02	µg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.346	—	—	5.00E-02	µg/L	—	J+	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.363	—	—	5.00E-02	µg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.365	—	—	5.00E-02	µg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.32	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.33	—	—	5.00E-02	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.59	—	—	5.00E-02	mg/L	—	J	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.47	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.37	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.48	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.37	—	—	5.00E-02	mg/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.66	—	—	5.00E-02	mg/L	—	J	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.44	—	—	5.00E-02	mg/L	—	—	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.36	—	—	5.00E-02	mg/L	—	—	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.72	—	—	1.00E-01	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.5	—	—	1.00E-01	mg/L	—	—	11-93	CAPA-10-27422	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.1	—	—	1.00E-01	mg/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.18	—	—	1.00E-01	mg/L	—	—	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	133	—	—	1.00E+00	µS/cm	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	134	—	—	1.00E+00	µS/cm	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	138	—	—	1.00E+00	µS/cm	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	142	—	—	1.00E+00	µS/cm	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	139	—	—	1.00E+00	µS/cm	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.49	—	—	1.00E-01	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.46	—	—	1.00E-01	mg/L	—	J+	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.78	—	—	1.00E-01	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.54	—	—	1.00E-01	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.52	—	—	1.00E-01	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	131	—	—	3.40E+00	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	127	—	—	3.40E+00	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	130	—	—	2.40E+00	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	138	—	—	2.40E+00	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	145	—	—	2.40E+00	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.458	—	—	3.30E-01	mg/L	J	J	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-1219	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.662	—	—	3.30E-01	mg/L	J	J	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.07	—	—	1.00E-02	SU	H	J-	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.08	—	—	1.00E-02	SU	H	J-	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8	—	—	1.00E-02	SU	H	J-	11-2250	CAPA-11-9377	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.02	—	—	1.00E-02	SU	H	J-	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.99	—	—	1.00E-02	SU	H	J-	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	21.3	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	20.4	—	—	1.00E+00	µg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	21	—	—	1.00E+00	µg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	21.1	—	—	1.00E+00	µg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	20.6	—	—	1.00E+00	µg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22.7	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	20.9	—	—	1.00E+00	µg/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	23.5	—	—	1.00E+00	µg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	20.8	—	—	1.00E+00	µg/L	—	—	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	20.9	—	—	1.00E+00	µg/L	—	—	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.32	—	—	1.70E-01	µg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.24	—	—	1.70E-01	µg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.52	—	—	1.70E-01	µg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.66	—	—	1.70E-01	µg/L	—	J	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.48	—	—	1.00E-01	µg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.38	—	—	1.70E-01	µg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.28	—	—	1.70E-01	µg/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.5	—	—	1.70E-01	µg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.59	—	—	1.70E-01	µg/L	—	J	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.44	—	—	1.00E-01	µg/L	—	—	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.901	—	—	5.00E-01	µg/L	J	J	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.541	—	—	5.00E-01	µg/L	J	J	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.754	—	—	5.00E-01	µg/L	J	J	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	0.665	—	—	5.00E-01	µg/L	J	U	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.05	—	—	5.00E-01	µg/L	J	J	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.972	—	—	5.00E-01	µg/L	J	J	12-201	CAPA-12-1156	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.636	—	—	5.00E-01	µg/L	J	J	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.704	—	—	5.00E-01	µg/L	J	J	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	1.71	—	—	5.00E-01	µg/L	J	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.652	—	—	5.00E-01	µg/L	J	J	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.7	—	—	5.30E-02	mg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	66.1	—	—	5.30E-02	mg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.2	—	—	5.30E-02	mg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.8	—	—	5.30E-02	mg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.8	—	—	5.30E-02	mg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	58.2	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	54.8	—	—	1.00E+00	µg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.4	—	—	1.00E+00	µg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	59.1	—	—	1.00E+00	µg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	55.1	—	—	1.00E+00	µg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	61.8	—	—	1.00E+00	µg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	56.9	—	—	1.00E+00	µg/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	60.4	—	—	1.00E+00	µg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	57.7	—	—	1.00E+00	µg/L	—	—	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	54.4	—	—	1.00E+00	µg/L	—	—	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.33	—	—	6.70E-02	µg/L	—	—	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.293	—	—	6.70E-02	µg/L	—	—	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.338	—	—	6.70E-02	µg/L	—	—	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.357	—	—	6.70E-02	µg/L	—	—	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.349	—	—	5.00E-02	µg/L	—	—	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.312	—	—	6.70E-02	µg/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.298	—	—	6.70E-02	µg/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.324	—	—	6.70E-02	µg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.344	—	—	6.70E-02	µg/L	—	—	11-1220	CAPA-11-3039	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.355	—	—	5.00E-02	µg/L	—	—	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.69	—	—	1.00E+00	µg/L	J	J	12-201	CAPA-12-1155	GELC
R-49	905.6	07/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.38	—	—	1.00E+00	µg/L	J	J	11-2926	CAPA-11-22908	GELC
R-49	905.6	04/29/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.83	—	—	1.00E+00	µg/L	J	J	11-2250	CAPA-11-9377	GELC
R-49	905.6	01/26/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	4.11	—	—	1.00E+00	µg/L	J	U	11-1220	CAPA-11-3038	GELC
R-49	905.6	10/07/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.49	—	—	1.00E+00	µg/L	J	J	11-93	CAPA-10-27422	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.6	—	—	1.00E+00	µg/L	J	J	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.97	—	—	1.00E+00	µg/L	J	J	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.66	—	—	1.00E+00	µg/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	3.38	—	—	1.00E+00	µg/L	J	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.83	—	—	1.00E+00	µg/L	J	J	11-93	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00865	2.50E-03	3.40E-02	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.014	3.07E-03	1.50E-02	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0114	1.43E-03	3.30E-02	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	4.48	3.67E+00	3.90E+01	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00295	1.87E-03	2.80E-02	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00152	6.00E-04	3.50E-02	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.467	4.67E-01	5.40E+00	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.49	4.67E-01	4.50E+00	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-4.66	6.67E-01	6.00E+00	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.49	7.00E-01	6.10E+00	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.321	5.67E-01	5.60E+00	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	3.17	5.33E-01	7.00E+00	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.06	5.33E-01	5.30E+00	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.56	5.67E-01	5.10E+00	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.91	4.67E-01	5.00E+00	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.04	5.33E-01	5.90E+00	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.31	2.63E-01	2.50E+00	—	pCi/L	U	U	12-201	CAPA-12-1156	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.0848	1.83E-01	2.50E+00	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.19	3.33E-01	2.90E+00	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.333	2.17E-01	2.40E+00	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.432	2.10E-01	2.60E+00	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.518	2.20E-01	2.30E+00	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.29	2.93E-01	2.90E+00	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.1	2.97E-01	2.90E+00	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.456	2.37E-01	2.50E+00	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.8	2.67E-01	2.50E+00	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.34	9.67E-01	9.80E+00	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2	8.67E-01	8.20E+00	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.72	1.13E+00	1.10E+01	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	1.31	1.00E+00	9.80E+00	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	07/29/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.68	9.67E-01	9.00E+00	—	pCi/L	U	U	10-3907	CAPA-10-24139	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00264	1.07E-03	3.50E-02	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00732	2.87E-03	3.10E-02	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.002	6.67E-04	3.10E-02	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00906	1.70E-03	2.50E-02	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	1.57E-03	2.70E-02	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00286	1.37E-03	3.40E-02	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	6.00E-04	4.50E-02	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.002	1.17E-03	5.10E-02	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	7.67E-04	4.10E-02	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00235	1.37E-03	4.60E-02	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-30.6	5.67E+00	6.10E+01	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-28.3	6.00E+00	5.80E+01	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-9.01	5.33E+00	4.90E+01	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	30	6.33E+00	7.10E+01	—	pCi/L	U	U	11-1220	CAPA-11-3039	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-26.7	6.33E+00	5.70E+01	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0	3.33E-02	4.10E-01	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	03/05/10	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.0552	4.00E-02	4.50E-01	—	pCi/L	U	U	10-2336	CAPA-10-12909	GELC
R-49	905.6	09/01/09	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.546	8.33E-02	6.70E-01	—	pCi/L	U	U	09-3085	CAPA-09-12300	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.226	4.00E-02	3.70E-01	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	03/05/10	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.205	6.00E-02	6.00E-01	—	pCi/L	U	U	10-2336	CAPA-10-12909	GELC
R-49	905.6	09/01/09	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.717	7.67E-02	6.00E-01	—	pCi/L	—	—	09-3085	CAPA-09-12300	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.48	5.33E-01	5.10E+00	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.53	5.00E-01	5.20E+00	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.0712	4.67E-01	4.50E+00	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.88	6.33E-01	5.50E+00	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.34	5.33E-01	5.90E+00	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0951	4.67E-02	4.80E-01	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.185	4.00E-02	4.80E-01	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.385	5.33E-02	5.00E-01	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.149	4.33E-02	4.90E-01	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.166	5.00E-02	4.90E-01	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	LLEE	Tritium	—	5.62	3.73E-01	2.18E+00	—	pCi/L	—	—	12-244	CAPA-12-1156	ARSL
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.47895	2.13E-01	2.20E+00	—	pCi/L	U	U	11-2942	CAPA-11-22909	ARSL
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.07545	2.66E-01	2.65E+00	—	pCi/L	U	U	11-2264	CAPA-11-9378	ARSL
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.43685	2.34E-01	2.24E+00	—	pCi/L	U	U	11-112	CAPA-10-27423	ARSL
R-49	905.6	07/29/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.51088	2.34E-01	2.33E+00	—	pCi/L	U	R	10-3986	CAPA-10-24139	ARSL
R-49	905.6	07/29/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	-2.71405	2.55E-01	2.33E+00	—	pCi/L	U	U	10-3986	CAPA-10-24139	ARSL
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.186	1.07E-02	6.60E-02	—	pCi/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.232	8.67E-03	3.40E-02	—	pCi/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.282	1.30E-02	9.50E-02	—	pCi/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.249	1.07E-02	5.10E-02	—	pCi/L	—	—	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.24	9.00E-03	3.20E-02	—	pCi/L	—	—	11-92	CAPA-10-27423	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0	1.63E-03	4.90E-02	—	pCi/L	U	U	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0185	2.10E-03	2.10E-02	—	pCi/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00453	2.60E-03	7.30E-02	—	pCi/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00956	2.40E-03	3.80E-02	—	pCi/L	U	U	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0115	2.33E-03	2.40E-02	—	pCi/L	U	U	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0993	7.00E-03	7.80E-02	—	pCi/L	—	—	12-201	CAPA-12-1156	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.118	5.33E-03	2.60E-02	—	pCi/L	—	—	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.168	9.33E-03	5.00E-02	—	pCi/L	—	—	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.121	6.67E-03	3.70E-02	—	pCi/L	—	—	11-1220	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0859	4.67E-03	1.90E-02	—	pCi/L	—	—	11-92	CAPA-10-27423	GELC
R-49	905.6	10/27/11	WG	UF	CS	FTB	VOA	SW-846:8260B	Diethyl Ether	—	0.78	—	—	3.00E-01	µg/L	J	J	12-201	CAPA-12-1154	GELC
R-49	905.6	07/25/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2926	CAPA-11-22909	GELC
R-49	905.6	04/29/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-2250	CAPA-11-9378	GELC
R-49	905.6	01/26/11	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-1219	CAPA-11-3039	GELC
R-49	905.6	10/07/10	WG	UF	CS	—	VOA	SW-846:8260B	Diethyl Ether	<	1	—	—	3.00E-01	µg/L	U	U	11-92	CAPA-10-27423	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	58	—	—	7.30E-01	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57.5	—	—	7.30E-01	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	58.6	—	—	7.30E-01	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57.5	—	—	7.30E-01	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.5	—	—	7.30E-01	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.7	—	—	7.30E-01	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0177	—	—	1.60E-02	mg/L	J	J+	12-147	CAPA-12-1162	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0331	—	—	1.60E-02	mg/L	J	J	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.032	—	—	1.60E-02	mg/L	J	J-	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	10/21/11	WG	F	RE	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.7	—	—	5.00E-02	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.6	—	—	5.00E-02	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.7	—	—	5.00E-02	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Calcium	—	11.8	—	—	5.00E-02	mg/L	—	—	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.4	—	—	5.00E-02	mg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.97	—	—	6.60E-02	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.97	—	—	6.60E-02	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.05	—	—	6.60E-02	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.02	—	—	6.60E-02	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.92	—	—	6.60E-02	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	EPA:300.0	Fluoride	—	0.241	—	—	3.30E-02	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.252	—	—	3.30E-02	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.247	—	—	3.30E-02	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.276	—	—	3.30E-02	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.258	—	—	3.30E-02	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.151	—	—	3.30E-02	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	SM:A2340B	Hardness	—	43.5	—	—	4.50E-01	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	52.6	—	—	4.50E-01	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.4	—	—	4.50E-01	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	42	—	—	4.50E-01	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	42.7	—	—	3.50E-01	mg/L	—	—	11-1058	CAPA-11-3042	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	38.6	—	—	3.50E-01	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Geninorg	SM:A2340B	Hardness	—	40.5	—	—	4.50E-01	mg/L	—	—	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.8	—	—	4.50E-01	mg/L	—	—	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41	—	—	4.50E-01	mg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39.9	—	—	4.50E-01	mg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.2	—	—	3.50E-01	mg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	37.2	—	—	3.50E-01	mg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	2.85	—	—	1.10E-01	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.35	—	—	1.10E-01	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	10/21/11	WG	F	RE	—	Geninorg	SW-846:6010B	Magnesium	—	2.82	—	—	1.10E-01	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.7	—	—	1.10E-01	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.78	—	—	1.10E-01	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.76	—	—	8.50E-02	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.86	—	—	8.50E-02	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	2.66	—	—	1.10E-01	mg/L	—	—	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.68	—	—	1.10E-01	mg/L	—	—	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.73	—	—	1.10E-01	mg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.66	—	—	1.10E-01	mg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.65	—	—	8.50E-02	mg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.75	—	—	8.50E-02	mg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	SW-846:6850	Perchlorate	—	0.277	—	—	5.00E-02	µg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.272	—	—	5.00E-02	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.264	—	—	5.00E-02	µg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.264	—	—	5.00E-02	µg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.281	—	—	5.00E-02	µg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.292	—	—	5.00E-02	µg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.49	—	—	5.00E-02	mg/L	—	J	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	10.3	—	—	5.00E-02	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	10/21/11	WG	F	RE	—	Geninorg	SW-846:6010B	Potassium	—	1.44	—	—	5.00E-02	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.57	—	—	5.00E-02	mg/L	—	J	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.38	—	—	5.00E-02	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.53	—	—	5.00E-02	mg/L	—	J	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.66	—	—	5.00E-02	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.41	—	—	5.00E-02	mg/L	—	J	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.47	—	—	5.00E-02	mg/L	—	J	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.56	—	—	5.00E-02	mg/L	—	J	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.3	—	—	5.00E-02	mg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.51	—	—	5.00E-02	mg/L	—	J	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.62	—	—	5.00E-02	mg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	59.1	—	—	1.00E-01	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	10/21/11	WG	F	RE	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.6	—	—	1.00E-01	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.1	—	—	1.00E-01	mg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	EPA:120.1	Specific Conductance	—	125	—	—	1.00E+00	µS/cm	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	126	—	—	1.00E+00	µS/cm	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	121	—	—	1.00E+00	µS/cm	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	128	—	—	1.00E+00	µS/cm	—	—	11-2362	CAPA-11-9404	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	134	—	—	1.00E+00	µS/cm	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	147	—	—	1.00E+00	µS/cm	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	EPA:300.0	Sulfate	—	2.66	—	—	1.00E-01	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.7	—	—	1.00E-01	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.61	—	—	1.00E-01	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.09	—	—	1.00E-01	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.24	—	—	1.00E-01	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	7.18	—	—	1.00E-01	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	EPA:160.1	Total Dissolved Solids	—	139	—	—	3.40E+00	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	121	—	—	3.40E+00	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	124	—	—	3.40E+00	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	120	—	—	2.40E+00	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	127	—	—	2.40E+00	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	139	—	—	2.40E+00	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Geninorg	EPA:150.1	pH	—	8.02	—	—	1.00E-02	SU	H	J-	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.95	—	—	1.00E-02	SU	H	J-	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8	—	—	1.00E-02	SU	H	J-	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.21	—	—	1.00E-02	SU	H	J-	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.32	—	—	1.00E-02	SU	H	J-	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.18	—	—	1.00E-02	SU	H	J-	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	—	14200	—	—	6.80E+01	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-206	CAPA-10-27439	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-1058	CAPA-11-3043	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Metals	SW-846:6010B	Barium	—	29	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	119	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	10/21/11	WG	F	RE	—	Metals	SW-846:6010B	Barium	—	27.8	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	26.4	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	27.6	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.7	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.8	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Metals	SW-846:6010B	Barium	—	26.6	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	26.8	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	26.7	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	26.8	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	27.5	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	19	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	57.2	—	—	1.50E+01	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	18.2	—	—	1.50E+01	µg/L	J	J	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-206	CAPA-10-27439	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	16.9	—	—	1.50E+01	µg/L	J	J	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Metals	SW-846:6020	Chromium	—	2.57	—	—	2.00E+00	µg/L	J	J	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.09	—	—	2.00E+00	µg/L	J	J	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	6.06	—	—	2.00E+00	µg/L	J	U	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.38	—	—	2.00E+00	µg/L	J	J	11-1058	CAPA-11-3042	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Metals	SW-846:6020	Chromium	—	3.35	—	—	2.00E+00	µg/L	J	J	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.95	—	—	2.00E+00	µg/L	J	J	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	5.85	—	—	2.00E+00	µg/L	J	U	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.18	—	—	2.00E+00	µg/L	J	J	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Copper	—	6.75	—	—	3.00E+00	µg/L	J	J	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-206	CAPA-10-27439	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Copper	—	3.47	—	—	3.00E+00	µg/L	J	J	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Copper	<	10	—	—	3.00E+00	µg/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	8730	—	—	3.00E+01	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	30	—	—	3.00E+01	µg/L	J	J	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	103	—	—	3.00E+01	µg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	44.1	—	—	3.00E+01	µg/L	J	J	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	49.8	—	—	3.00E+01	µg/L	J	J	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	67.7	—	—	3.00E+01	µg/L	J	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	47.9	—	—	2.00E+00	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-206	CAPA-10-27439	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	<	10	—	—	2.00E+00	µg/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	2.5	—	—	2.00E+00	µg/L	J	J	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Metals	SW-846:6020	Molybdenum	—	1.74	—	—	1.70E-01	µg/L	—	J	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.63	—	—	1.70E-01	µg/L	—	J	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.27	—	—	1.70E-01	µg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.21	—	—	1.70E-01	µg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.3	—	—	1.70E-01	µg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.38	—	—	1.00E-01	µg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Metals	SW-846:6020	Molybdenum	—	1.77	—	—	1.70E-01	µg/L	—	J	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.82	—	—	1.70E-01	µg/L	—	J	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.25	—	—	1.70E-01	µg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.32	—	—	1.70E-01	µg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.26	—	—	1.70E-01	µg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.46	—	—	1.00E-01	µg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Metals	SW-846:6010B	Silicon Dioxide	—	75.1	—	—	5.30E-02	mg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	72.6	—	—	5.30E-02	mg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.5	—	—	5.30E-02	mg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	72.3	—	—	5.30E-02	mg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70	—	—	5.30E-02	mg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.8	—	—	5.30E-02	mg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Metals	SW-846:6010B	Strontium	—	71.4	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	83.5	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	10/21/11	WG	F	RE	—	Metals	SW-846:6010B	Strontium	—	69.3	—	—	1.00E+00	µg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	67	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	77.1	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	93.3	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	53.3	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Metals	SW-846:6010B	Strontium	—	66.1	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	67.3	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	69.3	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	71.8	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	88.8	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	51.9	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Metals	SW-846:6020	Uranium	—	0.253	—	—	6.70E-02	µg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.261	—	—	6.70E-02	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.247	—	—	6.70E-02	µg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.225	—	—	6.70E-02	µg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.338	—	—	6.70E-02	µg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.327	—	—	5.00E-02	µg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Metals	SW-846:6020	Uranium	—	0.262	—	—	6.70E-02	µg/L	—	—	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.273	—	—	6.70E-02	µg/L	—	—	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.241	—	—	6.70E-02	µg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.233	—	—	6.70E-02	µg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.326	—	—	6.70E-02	µg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.351	—	—	5.00E-02	µg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Metals	SW-846:6010B	Vanadium	—	5.7	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	10.6	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	10/21/11	WG	F	RE	—	Metals	SW-846:6010B	Vanadium	—	5.9	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.91	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.48	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.03	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3042	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Metals	SW-846:6010B	Vanadium	—	5.75	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.7	—	—	1.00E+00	µg/L	—	—	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.82	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.19	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.68	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.36	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	F	CS	FD	Metals	SW-846:6010B	Zinc	—	6.66	—	—	3.30E+00	µg/L	J	J	12-147	CAPA-12-1162	GELC
R-51	914.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	44.5	—	—	3.30E+00	µg/L	—	—	12-147	CAPA-12-1158	GELC
R-51	914.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	10.2	—	—	3.30E+00	µg/L	—	—	11-2973	CAPA-11-22910	GELC
R-51	914.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	3.55	—	—	3.30E+00	µg/L	J	J	11-2362	CAPA-11-9404	GELC
R-51	914.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	19.9	—	—	3.30E+00	µg/L	—	—	11-1058	CAPA-11-3042	GELC
R-51	914.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	6.37	—	—	3.30E+00	µg/L	J	J	11-206	CAPA-10-27439	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Metals	SW-846:6010B	Zinc	—	8.08	—	—	3.30E+00	µg/L	J	J	12-147	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	8.12	—	—	3.30E+00	µg/L	J	J	12-147	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	13.7	—	—	3.30E+00	µg/L	—	—	11-2973	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	7.96	—	—	3.30E+00	µg/L	J	J	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	23.5	—	—	3.30E+00	µg/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	9.88	—	—	3.30E+00	µg/L	J	J	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	HASL-300	Americium-241	<	-0.00562	1.87E-03	4.60E-02	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00643	1.23E-03	3.50E-02	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00712	3.27E-03	1.30E-02	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-0.945	1.77E+00	1.60E+01	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00414	1.97E-03	4.20E-02	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00632	1.27E-03	2.60E-02	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00139	2.13E-03	3.70E-02	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	EPA:901.1	Cesium-137	<	0.203	5.00E-01	5.70E+00	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	3.06	5.33E-01	6.50E+00	—	pCi/L	U	U	12-148	CAPA-12-1159	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	4.51	6.33E-01	7.50E+00	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.07	4.67E-01	4.90E+00	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.831	5.00E-01	5.10E+00	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.321	4.67E-01	4.70E+00	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	EPA:901.1	Cobalt-60	<	-1.55	4.67E-01	4.80E+00	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.265	6.33E-01	7.10E+00	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.172	5.67E-01	5.60E+00	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-4	5.67E-01	4.40E+00	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.621	5.33E-01	5.40E+00	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.21	4.67E-01	4.20E+00	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	EPA:900	Gross alpha	<	-0.125	1.83E-01	2.60E+00	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.19	1.87E-01	2.50E+00	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.207	1.67E-01	2.30E+00	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.507	1.27E-01	2.80E+00	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.436	1.90E-01	2.20E+00	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.0973	1.03E-01	1.30E+00	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	EPA:900	Gross beta	<	1.8	2.47E-01	2.20E+00	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.82	2.70E-01	2.50E+00	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.514	2.60E-01	2.80E+00	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.94	3.10E-01	2.90E+00	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.86	2.67E-01	2.50E+00	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.57	2.33E-01	2.10E+00	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	EPA:901.1	Neptunium-237	<	-5.94	1.20E+00	1.20E+01	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-4.48	9.67E-01	9.50E+00	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-3.45	1.20E+00	1.10E+01	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	1.85	9.67E-01	9.90E+00	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	3.36	1.03E+00	1.10E+01	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	07/26/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.2	1.10E+00	9.80E+00	—	pCi/L	U	U	10-3839	CAPA-10-24156	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	HASL-300	Plutonium-238	<	0.00338	4.33E-03	5.90E-02	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00338	4.67E-03	5.90E-02	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	1.20E-03	4.40E-02	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00251	1.47E-03	4.00E-02	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00404	1.17E-03	2.20E-02	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0121	2.53E-03	2.30E-02	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	HASL-300	Plutonium-239/240	<	0	1.13E-03	5.70E-02	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0169	3.00E-03	5.70E-02	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00773	2.57E-03	6.30E-02	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0151	2.40E-03	6.40E-02	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00404	1.33E-03	4.00E-02	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-4.81E-10	1.33E-03	3.90E-02	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	EPA:901.1	Potassium-40	<	-15.1	7.00E+00	7.80E+01	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-3.72	6.33E+00	7.70E+01	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-47.8	7.67E+00	6.70E+01	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-18.1	6.00E+00	6.50E+01	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	27.4	7.33E+00	8.40E+01	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	1.68	6.67E+00	7.10E+01	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.218	3.33E-02	2.70E-01	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.212	4.33E-02	4.10E-01	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	EPA:901.1	Sodium-22	<	0.269	4.33E-01	5.40E+00	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.49	5.33E-01	5.70E+00	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.19	6.67E-01	6.00E+00	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.543	5.33E-01	4.90E+00	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.402	5.33E-01	5.50E+00	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.169	5.00E-01	4.80E+00	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	EPA:905.0	Strontium-90	<	0.229	5.00E-02	4.90E-01	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.178	4.67E-02	4.90E-01	—	pCi/L	U	U	12-148	CAPA-12-1159	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0109	4.33E-02	5.00E-01	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.322	5.33E-02	5.30E-01	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0105	4.33E-02	4.80E-01	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.252	5.00E-02	4.90E-01	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	0.58	2.23E-01	2.21E+00	—	pCi/L	U	U	12-171	CAPA-12-1160	ARSL
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.06	2.20E-01	2.25E+00	—	pCi/L	U	U	12-171	CAPA-12-1159	ARSL
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.66036	2.34E-01	2.36E+00	—	pCi/L	U	U	11-3020	CAPA-11-22912	ARSL
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.21334	2.55E-01	2.39E+00	—	pCi/L	U	U	11-2438	CAPA-11-9405	ARSL
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.20317	2.55E-01	2.24E+00	—	pCi/L	U	R	11-1122	CAPA-11-3043	ARSL
R-51	914.96	01/11/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.37299	2.34E-01	2.24E+00	—	pCi/L	U	U	11-1122	CAPA-11-3043	ARSL
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.40492	2.13E-01	1.98E+00	—	pCi/L	U	R	11-304	CAPA-10-27437	ARSL
R-51	914.96	10/19/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.28737	2.02E-01	2.08E+00	—	pCi/L	U	U	11-304	CAPA-10-27437	ARSL
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-234	—	0.159	9.00E-03	5.40E-02	—	pCi/L	—	—	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.201	9.67E-03	5.10E-02	—	pCi/L	—	—	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.184	1.03E-02	7.20E-02	—	pCi/L	—	—	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.171	9.00E-03	8.60E-02	—	pCi/L	—	—	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.202	8.00E-03	3.50E-02	—	pCi/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.252	1.07E-02	4.80E-02	—	pCi/L	—	—	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-235/236	<	0	2.67E-03	4.00E-02	—	pCi/L	U	U	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	-0.00376	1.77E-03	3.70E-02	—	pCi/L	U	U	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0	2.03E-03	4.40E-02	—	pCi/L	U	U	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00823	3.33E-03	6.60E-02	—	pCi/L	U	U	11-2362	CAPA-11-9405	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.011	1.93E-03	2.60E-02	—	pCi/L	U	U	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0248	3.17E-03	3.70E-02	—	pCi/L	U	U	11-206	CAPA-10-27437	GELC
R-51	914.96	10/21/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-238	—	0.0933	6.33E-03	6.30E-02	—	pCi/L	—	—	12-148	CAPA-12-1160	GELC
R-51	914.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0821	5.67E-03	5.90E-02	—	pCi/L	—	—	12-148	CAPA-12-1159	GELC
R-51	914.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0877	7.00E-03	5.60E-02	—	pCi/L	—	—	11-2974	CAPA-11-22912	GELC
R-51	914.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.103	6.67E-03	4.50E-02	—	pCi/L	—	—	11-2362	CAPA-11-9405	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	914.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0585	3.67E-03	2.50E-02	—	pCi/L	—	—	11-1058	CAPA-11-3043	GELC
R-51	914.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.132	7.33E-03	2.90E-02	—	pCi/L	—	—	11-206	CAPA-10-27437	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.6	—	—	7.30E-01	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.7	—	—	7.30E-01	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.1	—	—	7.30E-01	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.1	—	—	7.30E-01	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	120	—	—	7.30E-01	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.1	—	—	5.00E-02	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.5	—	—	5.00E-02	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11	—	—	5.00E-02	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.7	—	—	5.00E-02	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.5	—	—	5.00E-02	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11	—	—	5.00E-02	mg/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.8	—	—	5.00E-02	mg/L	—	—	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.5	—	—	5.00E-02	mg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.8	—	—	5.00E-02	mg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.9	—	—	5.00E-02	mg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.86	—	—	6.60E-02	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.89	—	—	6.60E-02	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.02	—	—	6.60E-02	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.9	—	—	6.60E-02	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.91	—	—	6.60E-02	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.232	—	—	3.30E-02	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.181	—	—	3.30E-02	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.217	—	—	3.30E-02	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.214	—	—	3.30E-02	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.154	—	—	3.30E-02	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39.2	—	—	4.50E-01	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	37.4	—	—	4.50E-01	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39.2	—	—	4.50E-01	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	38	—	—	3.50E-01	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	37.5	—	—	3.50E-01	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39	—	—	4.50E-01	mg/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	38.4	—	—	4.50E-01	mg/L	—	—	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	37.2	—	—	4.50E-01	mg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	38.4	—	—	3.50E-01	mg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	38.9	—	—	3.50E-01	mg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.79	—	—	1.10E-01	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.72	—	—	1.10E-01	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.85	—	—	1.10E-01	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.73	—	—	8.50E-02	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.74	—	—	8.50E-02	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.77	—	—	1.10E-01	mg/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.79	—	—	1.10E-01	mg/L	—	—	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.68	—	—	1.10E-01	mg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.76	—	—	8.50E-02	mg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.87	—	—	8.50E-02	mg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.271	—	—	5.00E-02	mg/L	—	J	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.0381	—	—	1.00E-02	mg/L	J	J	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.27	—	—	1.00E-01	mg/L	J	J-	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.205	—	—	5.00E-02	mg/L	J	J-	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.358	—	—	5.00E-02	mg/L	—	J	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.267	—	—	5.00E-02	µg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.271	—	—	5.00E-02	µg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.261	—	—	5.00E-02	µg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.294	—	—	5.00E-02	µg/L	—	—	11-1058	CAPA-11-3046	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.304	—	—	5.00E-02	µg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.66	—	—	5.00E-02	mg/L	—	J	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.73	—	—	5.00E-02	mg/L	—	J	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.69	—	—	5.00E-02	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.71	—	—	5.00E-02	mg/L	—	J	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.71	—	—	5.00E-02	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.6	—	—	5.00E-02	mg/L	—	J	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	J	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.49	—	—	5.00E-02	mg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	J	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.74	—	—	5.00E-02	mg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.5	—	—	1.00E-01	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12	—	—	1.00E-01	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.4	—	—	1.00E-01	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.6	—	—	1.00E-01	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.7	—	—	1.00E-01	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.3	—	—	1.00E-01	mg/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.3	—	—	1.00E-01	mg/L	—	—	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.6	—	—	1.00E-01	mg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.7	—	—	1.00E-01	mg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	15	—	—	1.00E-01	mg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	125	—	—	1.00E+00	µS/cm	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	123	—	—	1.00E+00	µS/cm	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.29	—	—	1.00E-01	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.42	—	—	1.00E-01	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.34	—	—	1.00E-01	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.45	—	—	1.00E-01	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	6.96	—	—	1.00E-01	mg/L	—	—	11-206	CAPA-10-27441	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	131	—	—	3.40E+00	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	124	—	—	3.40E+00	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	126	—	—	2.40E+00	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	132	—	—	2.40E+00	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	142	—	—	2.40E+00	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.615	—	—	3.30E-01	mg/L	J	J	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2972	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.455	—	—	3.30E-01	mg/L	J	J	11-2361	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.426	—	—	3.30E-01	mg/L	J	J	11-1057	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.608	—	—	3.30E-01	mg/L	J	J	11-205	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.12	—	—	1.00E-02	SU	H	J-	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.06	—	—	1.00E-02	SU	H	J-	11-2973	CAPA-11-22929	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	23.1	—	—	1.00E+00	µg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	21.4	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	22	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	20.4	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.2	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	23	—	—	1.00E+00	µg/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	20.9	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	20.6	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	19.9	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	40	—	—	3.00E+01	µg/L	J	U	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	37.1	—	—	3.00E+01	µg/L	J	J	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	46	—	—	3.00E+01	µg/L	J	J	11-2973	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	60.2	—	—	3.00E+01	µg/L	J	J	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	56.2	—	—	3.00E+01	µg/L	J	J	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	75	—	—	3.00E+01	µg/L	J	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.3	—	—	1.70E-01	µg/L	—	J	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	0.97	—	—	1.70E-01	µg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.25	—	—	1.70E-01	µg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.2	—	—	1.70E-01	µg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.34	—	—	1.00E-01	µg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.28	—	—	1.70E-01	µg/L	—	J	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	0.955	—	—	1.70E-01	µg/L	—	—	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.26	—	—	1.70E-01	µg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.18	—	—	1.70E-01	µg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.39	—	—	1.00E-01	µg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	74.2	—	—	5.30E-02	mg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70.2	—	—	5.30E-02	mg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	73.2	—	—	5.30E-02	mg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.1	—	—	5.30E-02	mg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.8	—	—	5.30E-02	mg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	51.6	—	—	1.00E+00	µg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	48.7	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	52.2	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	53.6	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	52.8	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	51.8	—	—	1.00E+00	µg/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	50	—	—	1.00E+00	µg/L	—	—	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	50.1	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	53.9	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	54.7	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27440	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.308	—	—	6.70E-02	µg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.277	—	—	6.70E-02	µg/L	—	—	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.301	—	—	6.70E-02	µg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.368	—	—	6.70E-02	µg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.333	—	—	5.00E-02	µg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.294	—	—	6.70E-02	µg/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.286	—	—	6.70E-02	µg/L	—	—	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.305	—	—	6.70E-02	µg/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.354	—	—	6.70E-02	µg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.469	—	—	5.00E-02	µg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.04	—	—	1.00E+00	µg/L	—	—	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	5.65	—	—	1.00E+00	µg/L	—	U	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.37	—	—	1.00E+00	µg/L	—	—	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.8	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.54	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.06	—	—	1.00E+00	µg/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	5.46	—	—	1.00E+00	µg/L	—	U	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.87	—	—	1.00E+00	µg/L	J	J	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.72	—	—	1.00E+00	µg/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.9	—	—	1.00E+00	µg/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	4.25	—	—	3.30E+00	µg/L	J	J	12-152	CAPA-12-1166	GELC
R-51	1030.96	07/28/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	4.03	—	—	3.30E+00	µg/L	J	J	11-2973	CAPA-11-22929	GELC
R-51	1030.96	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2362	CAPA-11-9445	GELC
R-51	1030.96	01/11/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	3.82	—	—	3.30E+00	µg/L	J	J	11-1058	CAPA-11-3046	GELC
R-51	1030.96	10/19/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	8.73	—	—	3.30E+00	µg/L	J	J	11-206	CAPA-10-27441	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	5.44	—	—	3.30E+00	µg/L	J	J	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	4.14	—	—	3.30E+00	µg/L	J	J	11-2973	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2362	CAPA-11-9446	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	5.34	—	—	3.30E+00	µg/L	J	J	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	7.87	—	—	3.30E+00	µg/L	J	J	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0071	1.77E-03	3.90E-02	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00789	3.33E-03	1.50E-02	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	5.94	1.73E+00	1.60E+01	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0121	1.90E-03	4.10E-02	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00581	9.67E-04	2.20E-02	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0122	1.57E-03	3.50E-02	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.66	5.67E-01	5.10E+00	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.147	5.33E-01	5.30E+00	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.738	4.33E-01	4.00E+00	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-3.34	5.67E-01	4.70E+00	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.49	4.33E-01	3.50E+00	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.86	5.67E-01	7.00E+00	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.169	6.67E-01	6.50E+00	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.4	5.33E-01	5.70E+00	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.14	5.33E-01	5.80E+00	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.83	5.33E-01	5.90E+00	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.549	1.23E-01	2.40E+00	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.521	2.23E-01	2.40E+00	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.818	2.13E-01	2.20E+00	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.15	2.87E-01	1.90E+00	—	pCi/L	—	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.28	1.00E-01	1.10E+00	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.81	3.33E-01	2.70E+00	—	pCi/L	—	—	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.84	2.73E-01	2.50E+00	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.945	2.73E-01	2.80E+00	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.29	3.03E-01	2.80E+00	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.439	1.97E-01	2.10E+00	—	pCi/L	U	U	11-206	CAPA-10-27440	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	2.66	8.00E-01	8.90E+00	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.3	1.20E+00	1.10E+01	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	3.18	1.20E+00	1.20E+01	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.81	1.03E+00	1.00E+01	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	07/26/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.54	8.00E-01	7.90E+00	—	pCi/L	U	U	10-3839	CAPA-10-24158	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.000329	2.43E-03	5.20E-02	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00402	1.63E-03	3.50E-02	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	7.67E-04	3.60E-02	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0172	3.67E-03	2.30E-02	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00436	1.47E-03	2.50E-02	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00701	2.27E-03	5.00E-02	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.33E-03	4.90E-02	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0185	2.20E-03	5.90E-02	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00429	1.77E-03	4.30E-02	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00436	1.03E-03	4.30E-02	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-16.2	6.67E+00	6.70E+01	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-53.3	7.00E+00	5.60E+01	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-20.7	5.00E+00	5.00E+01	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-22.6	7.00E+00	6.90E+01	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-25.6	7.00E+00	5.90E+01	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Rad	EPA:903.1	Radium-226	<	0.2	3.67E-02	3.20E-01	—	pCi/L	U	U	12-152	CAPA-12-1166	GELC
R-51	1030.96	10/21/11	WG	F	CS	—	Rad	EPA:904	Radium-228	<	0.189	4.67E-02	4.60E-01	—	pCi/L	U	U	12-152	CAPA-12-1166	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.756	3.33E-01	4.50E+00	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.68	6.33E-01	7.10E+00	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.02	4.33E-01	4.60E+00	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-3.03	5.67E-01	4.70E+00	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.617	5.67E-01	5.30E+00	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0716	4.67E-02	4.90E-01	—	pCi/L	U	U	12-152	CAPA-12-1164	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0253	4.33E-02	4.80E-01	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0107	5.33E-02	5.40E-01	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.192	4.67E-02	4.70E-01	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.309	5.00E-02	4.60E-01	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.04	2.17E-01	2.20E+00	—	pCi/L	U	U	12-171	CAPA-12-1164	ARSL
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.78808	2.34E-01	2.27E+00	—	pCi/L	U	U	11-3020	CAPA-11-22928	ARSL
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.62843	2.34E-01	2.14E+00	—	pCi/L	U	U	11-2438	CAPA-11-9446	ARSL
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.33089	2.77E-01	2.39E+00	—	pCi/L	U	R	11-1122	CAPA-11-3045	ARSL
R-51	1030.96	01/11/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.88387	2.66E-01	2.39E+00	—	pCi/L	U	U	11-1122	CAPA-11-3045	ARSL
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.85194	2.77E-01	2.55E+00	—	pCi/L	U	R	11-304	CAPA-10-27440	ARSL
R-51	1030.96	10/19/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.22351	2.66E-01	2.68E+00	—	pCi/L	U	U	11-304	CAPA-10-27440	ARSL
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.137	1.17E-02	7.80E-02	—	pCi/L	—	J+	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.175	1.10E-02	9.40E-02	—	pCi/L	—	J+	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.173	9.00E-03	8.30E-02	—	pCi/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.245	9.00E-03	3.70E-02	—	pCi/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.246	1.17E-02	5.90E-02	—	pCi/L	—	—	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0058	4.33E-03	5.80E-02	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00566	3.27E-03	5.80E-02	—	pCi/L	U	U	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0197	2.97E-03	6.40E-02	—	pCi/L	U	U	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00928	2.20E-03	2.80E-02	—	pCi/L	U	U	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0258	3.67E-03	4.50E-02	—	pCi/L	U	U	11-206	CAPA-10-27440	GELC
R-51	1030.96	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	<	0.0329	7.67E-03	9.20E-02	—	pCi/L	U	U	12-152	CAPA-12-1164	GELC
R-51	1030.96	07/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.124	9.67E-03	7.30E-02	—	pCi/L	—	J+	11-2974	CAPA-11-22928	GELC
R-51	1030.96	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.083	5.67E-03	4.30E-02	—	pCi/L	—	—	11-2362	CAPA-11-9446	GELC
R-51	1030.96	01/11/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.133	6.33E-03	2.60E-02	—	pCi/L	—	—	11-1058	CAPA-11-3045	GELC
R-51	1030.96	10/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.125	7.67E-03	3.60E-02	—	pCi/L	—	—	11-206	CAPA-10-27440	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	66.9	—	—	7.30E-01	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	64.7	—	—	7.30E-01	mg/L	—	—	11-2870	CAPA-11-22931	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.7	—	—	7.30E-01	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	68.4	—	—	7.30E-01	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.6	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0702	—	—	6.60E-02	mg/L	J	J	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.6	—	—	5.00E-02	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.4	—	—	5.00E-02	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.7	—	—	5.00E-02	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.4	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15.1	—	—	5.00E-02	mg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.5	—	—	5.00E-02	mg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.5	—	—	5.00E-02	mg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.1	—	—	5.00E-02	mg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.6	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.42	—	—	6.60E-02	mg/L	—	J-	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.55	—	—	6.60E-02	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.58	—	—	6.60E-02	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.31	—	—	6.60E-02	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.5	—	—	6.60E-02	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.293	—	—	3.30E-02	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.29	—	—	3.30E-02	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.25	—	—	3.30E-02	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.279	—	—	3.30E-02	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.249	—	—	3.30E-02	mg/L	—	—	11-128	CAPA-10-27450	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	49.9	—	—	4.50E-01	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.5	—	—	4.50E-01	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.1	—	—	4.50E-01	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45.4	—	—	3.50E-01	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	48.5	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	51.8	—	—	4.50E-01	mg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46.6	—	—	4.50E-01	mg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46.2	—	—	4.50E-01	mg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.5	—	—	3.50E-01	mg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	49.1	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.27	—	—	1.10E-01	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.13	—	—	1.10E-01	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.11	—	—	1.10E-01	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.96	—	—	8.50E-02	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.04	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.4	—	—	1.10E-01	mg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.15	—	—	1.10E-01	mg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.06	—	—	1.10E-01	mg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.89	—	—	8.50E-02	mg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.07	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.625	—	—	5.00E-02	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.735	—	—	5.00E-02	mg/L	—	J-	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.58	—	—	5.00E-02	mg/L	—	J-	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.407	—	—	5.00E-02	mg/L	—	J-	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.62	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.39	—	—	5.00E-02	µg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.419	—	—	5.00E-02	µg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.377	—	—	5.00E-02	µg/L	—	—	11-2300	CAPA-11-9463	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.36	—	—	5.00E-02	µg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.404	—	—	5.00E-02	µg/L	—	J+	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.95	—	—	5.00E-02	mg/L	—	J	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.73	—	—	5.00E-02	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.81	—	—	5.00E-02	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.9	—	—	5.00E-02	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.9	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.98	—	—	5.00E-02	mg/L	—	J	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.79	—	—	5.00E-02	mg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.87	—	—	5.00E-02	mg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.91	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.9	—	—	1.00E-01	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	1.00E-01	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.4	—	—	1.00E-01	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.6	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.3	—	—	1.00E-01	mg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.4	—	—	1.00E-01	mg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.2	—	—	1.00E-01	mg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.9	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	153	—	—	1.00E+00	µS/cm	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	141	—	—	1.00E+00	µS/cm	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	153	—	—	1.00E+00	µS/cm	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	148	—	—	1.00E+00	µS/cm	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	157	—	—	1.00E+00	µS/cm	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.37	—	—	1.00E-01	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.19	—	—	1.00E-01	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.85	—	—	1.00E-01	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.54	—	—	1.00E-01	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.52	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	143	—	—	3.40E+00	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	141	—	—	3.40E+00	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	147	—	—	2.40E+00	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	136	—	—	2.40E+00	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	2.40E+00	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.585	—	—	3.30E-01	mg/L	J	J	12-251	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2869	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.502	—	—	3.30E-01	mg/L	J	J	11-2299	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.56	—	—	3.30E-01	mg/L	J	J	11-1095	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.52	—	—	3.30E-01	mg/L	—	—	11-127	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.29	—	—	1.00E-02	SU	H	J-	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.28	—	—	1.00E-02	SU	H	J-	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.42	—	—	1.00E-02	SU	H	J-	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.46	—	—	1.00E-02	SU	H	J-	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.46	—	—	1.00E-02	SU	H	J-	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	31.1	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.6	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	30.1	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	30.3	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	30.2	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	32.4	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.6	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.5	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.5	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3082	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30.8	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.83	—	—	2.00E+00	µg/L	J	J	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.03	—	—	2.00E+00	µg/L	J	J	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.14	—	—	2.00E+00	µg/L	J	J	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.54	—	—	2.50E+00	µg/L	J	J	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.27	—	—	2.00E+00	µg/L	J	J	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.25	—	—	2.00E+00	µg/L	J	J	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.63	—	—	2.50E+00	µg/L	J	J	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.83	—	—	1.70E-01	µg/L	—	J	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.35	—	—	1.70E-01	µg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.73	—	—	1.70E-01	µg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.23	—	—	1.70E-01	µg/L	—	J	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.83	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.75	—	—	1.70E-01	µg/L	—	J	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.37	—	—	1.70E-01	µg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.74	—	—	1.70E-01	µg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.29	—	—	1.70E-01	µg/L	—	J	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.79	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.9	—	—	5.30E-02	mg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	74.1	—	—	5.30E-02	mg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.1	—	—	5.30E-02	mg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.1	—	—	5.30E-02	mg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	62.3	—	—	5.30E-02	mg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	67.5	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.2	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22931	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	64.5	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	67.4	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	67.2	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	69.7	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	55.9	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	63.6	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	65.9	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	68.6	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.388	—	—	6.70E-02	µg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.396	—	—	6.70E-02	µg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.472	—	—	6.70E-02	µg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.751	—	—	6.70E-02	µg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.719	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.4	—	—	6.70E-02	µg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.392	—	—	6.70E-02	µg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.485	—	—	6.70E-02	µg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.89	—	—	6.70E-02	µg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.706	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.75	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.75	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.23	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.61	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.45	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.21	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.33	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.82	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.47	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.74	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27451	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	7.08	—	—	3.30E+00	µg/L	J	J	12-252	CAPA-12-1186	GELC
R-52	1035.2	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	12.4	—	—	3.30E+00	µg/L	—	—	11-2870	CAPA-11-22931	GELC
R-52	1035.2	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	12.6	—	—	3.30E+00	µg/L	—	—	11-2300	CAPA-11-9463	GELC
R-52	1035.2	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	17.8	—	—	3.30E+00	µg/L	—	—	11-1096	CAPA-11-3081	GELC
R-52	1035.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	10.7	—	—	3.30E+00	µg/L	—	—	11-128	CAPA-10-27450	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	10.2	—	—	3.30E+00	µg/L	—	—	12-252	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	14.9	—	—	3.30E+00	µg/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	15.7	—	—	3.30E+00	µg/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	24.1	—	—	3.30E+00	µg/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	17.4	—	—	3.30E+00	µg/L	—	—	11-128	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0021	1.87E-03	3.30E-02	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0161	3.10E-03	2.00E-02	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-7.57	2.43E+00	2.30E+01	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00787	2.33E-03	5.30E-02	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-5.26	3.30E+00	2.90E+01	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00526	1.33E-03	3.60E-02	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0000128	7.67E-04	3.20E-02	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.02	4.33E-01	4.90E+00	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.06	7.33E-01	6.90E+00	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.21	5.33E-01	5.30E+00	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.644	3.67E-01	3.50E+00	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.567	4.67E-01	4.40E+00	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.579	4.67E-01	4.90E+00	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-5.96	7.33E-01	3.90E+00	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.546	3.67E-01	3.90E+00	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.36	3.67E-01	3.20E+00	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.0166	5.00E-01	4.90E+00	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.88	3.03E-01	2.50E+00	—	pCi/L	U	U	12-253	CAPA-12-1187	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.123	1.47E-01	2.20E+00	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.13	2.10E-01	1.70E+00	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.88	3.27E-01	1.80E+00	—	pCi/L	—	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.414	2.07E-01	2.40E+00	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.24	2.30E-01	2.20E+00	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	-0.344	2.53E-01	2.70E+00	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.85	2.87E-01	2.30E+00	—	pCi/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.1	2.73E-01	2.30E+00	—	pCi/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.87	2.83E-01	2.20E+00	—	pCi/L	—	—	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	1.66	9.00E-01	9.50E+00	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.322	7.67E-01	7.50E+00	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.66	8.67E-01	8.40E+00	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	08/05/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-4.76	1.10E+00	9.90E+00	—	pCi/L	U	U	10-4009	CAPA-10-24167	GELC
R-52	1035.2	05/02/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	7.71	3.67E+00	3.60E+01	—	pCi/L	U	U	10-2998	CAPA-10-16633	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	3.20E-03	3.50E-02	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	2.17E-03	3.50E-02	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0116	2.23E-03	3.00E-02	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00721	2.67E-03	2.60E-02	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00365	1.50E-03	2.10E-02	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00913	2.27E-03	4.80E-02	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00205	1.53E-03	5.00E-02	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00775	1.30E-03	4.90E-02	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0144	1.97E-03	4.80E-02	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00182	1.37E-03	3.60E-02	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-0.716	6.33E+00	7.20E+01	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	14.7	7.00E+00	8.00E+01	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	9.51	5.33E+00	2.80E+01	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	15.4	6.33E+00	6.40E+01	—	pCi/L	U	U	11-1096	CAPA-11-3082	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-12.2	6.33E+00	6.10E+01	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.664	7.67E-02	5.40E-01	—	pCi/L	—	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.659	6.67E-02	5.10E-01	—	pCi/L	—	—	12-253	CAPA-12-1187	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.26	4.33E-01	4.30E+00	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.0739	5.67E-01	5.50E+00	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.6	4.00E-01	3.40E+00	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.534	4.33E-01	4.40E+00	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.2	4.67E-01	4.80E+00	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.266	4.00E-02	4.90E-01	—	pCi/L	U	U	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.276	3.67E-02	4.90E-01	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.281	3.67E-02	4.60E-01	—	pCi/L	U	U	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.077	4.33E-02	4.90E-01	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.126	3.67E-02	4.80E-01	—	pCi/L	U	U	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0	2.17E-01	2.20E+00	—	pCi/L	U	U	12-244	CAPA-12-1187	ARSL
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.60667	2.66E-01	2.62E+00	—	pCi/L	U	U	11-2878	CAPA-11-22933	ARSL
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.05369	2.24E-01	2.11E+00	—	pCi/L	U	U	11-2438	CAPA-11-9464	ARSL
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	5.97091	3.83E-01	2.14E+00	—	pCi/L	—	R	11-1122	CAPA-11-3082	ARSL
R-52	1035.2	01/13/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	5.97091	3.83E-01	2.14E+00	—	pCi/L	—	—	11-1122	CAPA-11-3082	ARSL
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.28879	2.87E-01	2.24E+00	—	pCi/L	—	R	11-195	CAPA-10-27451	ARSL
R-52	1035.2	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.11755	2.34E-01	2.24E+00	—	pCi/L	U	U	11-195	CAPA-10-27451	ARSL
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.313	1.10E-02	4.90E-02	—	pCi/L	—	—	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.268	1.10E-02	4.80E-02	—	pCi/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.335	1.37E-02	8.00E-02	—	pCi/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.37	1.20E-02	3.50E-02	—	pCi/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.4	1.27E-02	2.90E-02	—	pCi/L	—	J	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0264	2.73E-03	2.60E-02	—	pCi/L	—	—	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0175	2.77E-03	3.00E-02	—	pCi/L	U	U	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0191	2.90E-03	6.20E-02	—	pCi/L	U	U	11-2300	CAPA-11-9464	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0244	2.50E-03	2.60E-02	—	pCi/L	U	U	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0321	2.87E-03	2.30E-02	—	pCi/L	—	—	11-129	CAPA-10-27451	GELC
R-52	1035.2	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.147	6.67E-03	2.20E-02	—	pCi/L	—	—	12-253	CAPA-12-1187	GELC
R-52	1035.2	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.153	7.33E-03	3.70E-02	—	pCi/L	—	—	11-2870	CAPA-11-22933	GELC
R-52	1035.2	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.151	8.00E-03	4.20E-02	—	pCi/L	—	—	11-2300	CAPA-11-9464	GELC
R-52	1035.2	01/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.172	7.00E-03	2.50E-02	—	pCi/L	—	—	11-1096	CAPA-11-3082	GELC
R-52	1035.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.21	8.00E-03	1.80E-02	—	pCi/L	—	—	11-129	CAPA-10-27451	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57.5	—	—	7.30E-01	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60	—	—	7.30E-01	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57	—	—	7.30E-01	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	57.9	—	—	7.30E-01	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.2	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.4	—	—	5.00E-02	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.5	—	—	5.00E-02	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.1	—	—	5.00E-02	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.5	—	—	5.00E-02	mg/L	—	—	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.3	—	—	5.00E-02	mg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.4	—	—	5.00E-02	mg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.4	—	—	5.00E-02	mg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.09	—	—	6.60E-02	mg/L	—	J-	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.18	—	—	6.60E-02	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.15	—	—	6.60E-02	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.12	—	—	6.60E-02	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.13	—	—	6.60E-02	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.235	—	—	3.30E-02	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.232	—	—	3.30E-02	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.188	—	—	3.30E-02	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.213	—	—	3.30E-02	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.195	—	—	3.30E-02	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.3	—	—	4.50E-01	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.6	—	—	4.50E-01	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41.1	—	—	4.50E-01	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39.4	—	—	3.50E-01	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.2	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.7	—	—	4.50E-01	mg/L	—	—	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	43	—	—	4.50E-01	mg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.5	—	—	4.50E-01	mg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.4	—	—	3.50E-01	mg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39.9	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.89	—	—	1.10E-01	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.83	—	—	1.10E-01	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.97	—	—	1.10E-01	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.82	—	—	8.50E-02	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.91	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.93	—	—	1.10E-01	mg/L	—	—	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.97	—	—	1.10E-01	mg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.94	—	—	1.10E-01	mg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.89	—	—	8.50E-02	mg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.87	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.421	—	—	5.00E-02	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.417	—	—	5.00E-02	mg/L	—	J-	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.394	—	—	5.00E-02	mg/L	—	J-	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.314	—	—	5.00E-02	mg/L	—	J-	11-1096	CAPA-11-3086	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.447	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.305	—	—	5.00E-02	µg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.33	—	—	5.00E-02	µg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.31	—	—	5.00E-02	µg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.32	—	—	5.00E-02	µg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.326	—	—	5.00E-02	µg/L	—	J+	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.8	—	—	5.00E-02	mg/L	—	J	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.67	—	—	5.00E-02	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.71	—	—	5.00E-02	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.69	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.8	—	—	5.00E-02	mg/L	—	J	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.67	—	—	5.00E-02	mg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.66	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.9	—	—	1.00E-01	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	128	—	—	1.00E+00	µS/cm	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	125	—	—	1.00E+00	µS/cm	—	—	11-2870	CAPA-11-22934	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.68	—	—	1.00E-01	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.62	—	—	1.00E-01	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3	—	—	1.00E-01	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3	—	—	1.00E-01	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.99	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	126	—	—	3.40E+00	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	137	—	—	3.40E+00	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	150	—	—	2.40E+00	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	2.40E+00	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	128	—	—	2.40E+00	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.489	—	—	3.30E-01	mg/L	J	J	12-251	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2869	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.357	—	—	3.30E-01	mg/L	J	J	11-2299	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-1095	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.586	—	—	3.30E-01	mg/L	J	J	11-127	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.85	—	—	1.00E-02	SU	H	J-	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.69	—	—	1.00E-02	SU	H	J-	11-2870	CAPA-11-22934	GELC
R-52	1107	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.8	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.8	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.5	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.8	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.5	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.1	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	31.4	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	28.6	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30.3	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	28.9	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.94	—	—	2.00E+00	µg/L	J	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1107	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.48	—	—	2.50E+00	µg/L	J	J	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.44	—	—	2.00E+00	µg/L	J	J	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.16	—	—	2.50E+00	µg/L	J	J	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.39	—	—	1.70E-01	µg/L	—	J	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	0.971	—	—	1.70E-01	µg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.24	—	—	1.70E-01	µg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.48	—	—	1.70E-01	µg/L	—	U	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.12	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.4	—	—	1.70E-01	µg/L	—	J	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	0.986	—	—	1.70E-01	µg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.17	—	—	1.70E-01	µg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	1.5	—	—	1.70E-01	µg/L	—	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.15	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.8	—	—	5.30E-02	mg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	75.7	—	—	5.30E-02	mg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.5	—	—	5.30E-02	mg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.9	—	—	5.30E-02	mg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.5	—	—	5.30E-02	mg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	49.9	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	46.9	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	48.2	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	49.6	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3086	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1107	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	48	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	50.1	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	49.9	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	47.5	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	50.7	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	47.8	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.268	—	—	6.70E-02	µg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.274	—	—	6.70E-02	µg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.29	—	—	6.70E-02	µg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.45	—	—	6.70E-02	µg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.391	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.267	—	—	6.70E-02	µg/L	—	—	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.265	—	—	6.70E-02	µg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.3	—	—	6.70E-02	µg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.446	—	—	6.70E-02	µg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.377	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.25	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1190	GELC
R-52	1107	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.79	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22934	GELC
R-52	1107	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.04	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9477	GELC
R-52	1107	01/13/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	6.23	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3086	GELC
R-52	1107	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.83	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27454	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.45	—	—	1.00E+00	µg/L	—	—	12-252	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.43	—	—	1.00E+00	µg/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.81	—	—	1.00E+00	µg/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.09	—	—	1.00E+00	µg/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.94	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00578	1.43E-03	3.00E-02	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00278	2.47E-03	2.00E-02	—	pCi/L	U	U	11-2870	CAPA-11-22936	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-27.7	3.27E+00	2.90E+01	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0	1.77E-03	5.40E-02	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	0.257	3.67E+00	3.20E+01	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00064	1.50E-03	3.60E-02	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000111	8.00E-04	3.30E-02	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.11	6.33E-01	7.60E+00	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.47	4.67E-01	3.90E+00	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.646	4.67E-01	4.70E+00	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-5.35	7.33E-01	7.50E+00	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.871	6.00E-01	5.40E+00	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.13	5.33E-01	7.40E+00	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.724	5.33E-01	4.90E+00	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.13	5.00E-01	5.40E+00	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.232	5.33E-01	5.20E+00	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-3.13	4.33E-01	3.40E+00	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.14	2.33E-01	2.10E+00	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.603	2.03E-01	2.30E+00	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.115	1.40E-01	2.10E+00	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.19	2.40E-01	2.20E+00	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.88	3.07E-01	2.60E+00	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.73	2.73E-01	2.60E+00	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.35	2.60E-01	2.40E+00	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.33	2.60E-01	2.10E+00	—	pCi/L	—	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.54	2.67E-01	2.60E+00	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	-0.234	2.13E-01	2.50E+00	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.285	1.13E+00	1.20E+01	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.26	8.00E-01	7.70E+00	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	4.1	8.33E-01	8.80E+00	—	pCi/L	U	U	11-129	CAPA-10-27453	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1107	08/05/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.677	9.67E-01	9.40E+00	—	pCi/L	U	U	10-4009	CAPA-10-24658	GELC
R-52	1107	04/23/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	5.24	3.67E+00	3.50E+01	—	pCi/L	U	U	10-2885	CAPA-10-16638	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0033	4.67E-03	3.80E-02	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00865	3.33E-03	3.70E-02	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0146	1.73E-03	2.90E-02	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0105	2.13E-03	2.90E-02	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0224	2.40E-03	2.60E-02	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.57E-03	5.20E-02	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00432	1.43E-03	5.30E-02	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0109	1.73E-03	4.60E-02	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-2.5E-09	3.03E-03	5.30E-02	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.07E-03	4.40E-02	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	27.9	7.00E+00	1.00E+02	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-1.7	6.67E+00	6.90E+01	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-22.4	7.00E+00	7.00E+01	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	19.5	7.00E+00	7.60E+01	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-11.2	6.00E+00	6.00E+01	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.195	5.33E-02	5.60E-01	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.594	6.33E-02	4.80E-01	—	pCi/L	—	—	12-253	CAPA-12-1189	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.217	5.67E-01	7.30E+00	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.14	4.67E-01	3.90E+00	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.2	4.67E-01	4.10E+00	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.92	5.67E-01	5.00E+00	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.29	4.33E-01	4.10E+00	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.205	4.00E-02	4.90E-01	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0349	4.33E-02	4.90E-01	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.458	5.33E-02	4.90E-01	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0843	4.67E-02	4.90E-01	—	pCi/L	U	U	11-1096	CAPA-11-3084	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.000863	4.33E-02	4.90E-01	—	pCi/L	U	U	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.74	2.07E-01	2.03E+00	—	pCi/L	U	U	12-244	CAPA-12-1189	ARSL
R-52	1107	07/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.35123	2.34E-01	2.36E+00	—	pCi/L	U	U	11-2878	CAPA-11-22936	ARSL
R-52	1107	05/04/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.08562	2.24E-01	2.30E+00	—	pCi/L	U	U	11-2438	CAPA-11-9475	ARSL
R-52	1107	01/13/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	1.21334	2.13E-01	1.95E+00	—	pCi/L	U	R	11-1122	CAPA-11-3084	ARSL
R-52	1107	01/13/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.69229	2.24E-01	1.95E+00	—	pCi/L	U	U	11-1122	CAPA-11-3084	ARSL
R-52	1107	10/12/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.74598	2.45E-01	1.85E+00	—	pCi/L	—	R	11-195	CAPA-10-27453	ARSL
R-52	1107	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	2.77791	2.45E-01	1.85E+00	—	pCi/L	—	U	11-195	CAPA-10-27453	ARSL
R-52	1107	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.235	8.67E-03	4.40E-02	—	pCi/L	—	—	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.193	8.67E-03	4.70E-02	—	pCi/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.214	1.03E-02	8.00E-02	—	pCi/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.252	9.00E-03	3.40E-02	—	pCi/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.252	9.33E-03	3.20E-02	—	pCi/L	—	J	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00635	1.60E-03	2.30E-02	—	pCi/L	U	U	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0142	2.13E-03	2.90E-02	—	pCi/L	U	U	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00381	2.20E-03	6.10E-02	—	pCi/L	U	U	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0236	2.43E-03	2.50E-02	—	pCi/L	U	U	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0258	2.67E-03	2.50E-02	—	pCi/L	—	—	11-129	CAPA-10-27453	GELC
R-52	1107	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.105	5.33E-03	1.90E-02	—	pCi/L	—	—	12-253	CAPA-12-1189	GELC
R-52	1107	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.117	6.33E-03	3.60E-02	—	pCi/L	—	—	11-2870	CAPA-11-22936	GELC
R-52	1107	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.139	7.67E-03	4.20E-02	—	pCi/L	—	—	11-2300	CAPA-11-9475	GELC
R-52	1107	01/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0919	4.67E-03	2.40E-02	—	pCi/L	—	—	11-1096	CAPA-11-3084	GELC
R-52	1107	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.101	5.00E-03	1.90E-02	—	pCi/L	—	—	11-129	CAPA-10-27453	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.5	—	—	7.30E-01	mg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.5	—	—	7.30E-01	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.3	—	—	7.30E-01	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.5	—	—	7.30E-01	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Calcium	—	10.8	—	—	5.00E-02	mg/L	—	—	12-177	CAPA-12-1199	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.8	—	—	5.00E-02	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.7	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Calcium	—	11	—	—	5.00E-02	mg/L	—	—	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11	—	—	5.00E-02	mg/L	—	—	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.73	—	—	6.60E-02	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.8	—	—	6.60E-02	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.87	—	—	6.60E-02	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Geninorg	EPA:335.4	Cyanide (Total)	—	0.00208	—	—	1.50E-03	mg/L	J	J	12-177	CAPA-12-1197	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Geninorg	EPA:335.4	Cyanide (Total)	<	0.005	—	—	1.50E-03	mg/L	U	U	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Geninorg	EPA:335.4	Cyanide (Total)	<	0.005	—	—	1.50E-03	mg/L	U	U	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	EPA:300.0	Fluoride	—	0.258	—	—	3.30E-02	mg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.253	—	—	3.30E-02	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.243	—	—	3.30E-02	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.259	—	—	3.30E-02	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	SM:A2340B	Hardness	—	39.8	—	—	4.50E-01	mg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39.5	—	—	4.50E-01	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39.2	—	—	4.50E-01	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41.7	—	—	4.50E-01	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Geninorg	SM:A2340B	Hardness	—	40.3	—	—	4.50E-01	mg/L	—	—	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.5	—	—	4.50E-01	mg/L	—	—	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.1	—	—	4.50E-01	mg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.8	—	—	4.50E-01	mg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	3.08	—	—	1.10E-01	mg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.07	—	—	1.10E-01	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.04	—	—	1.10E-01	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.26	—	—	1.10E-01	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	3.1	—	—	1.10E-01	mg/L	—	—	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.13	—	—	1.10E-01	mg/L	—	—	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.17	—	—	1.10E-01	mg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.3	—	—	1.10E-01	mg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.349	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.336	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.316	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.435	—	—	1.00E-01	mg/L	J	J-	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	SW-846:6850	Perchlorate	—	0.309	—	—	5.00E-02	µg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.296	—	—	5.00E-02	µg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.313	—	—	5.00E-02	µg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.28	—	—	5.00E-02	µg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.84	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.79	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.66	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.87	—	—	5.00E-02	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.84	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.84	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.76	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Sodium	—	9.84	—	—	1.00E-01	mg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.83	—	—	1.00E-01	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.62	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Sodium	—	9.95	—	—	1.00E-01	mg/L	—	—	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.1	—	—	1.00E-01	mg/L	—	—	12-177	CAPA-12-1196	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.96	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	EPA:120.1	Specific Conductance	—	151	—	—	1.00E+00	µS/cm	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	119	—	—	1.00E+00	µS/cm	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	121	—	—	1.00E+00	µS/cm	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	125	—	—	1.00E+00	µS/cm	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	EPA:300.0	Sulfate	—	1.91	—	—	1.00E-01	mg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.85	—	—	1.00E-01	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.83	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.97	—	—	1.00E-01	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	EPA:160.1	Total Dissolved Solids	—	107	—	—	3.40E+00	mg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	139	—	—	3.40E+00	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	119	—	—	3.40E+00	mg/L	—	J	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	141	—	—	2.40E+00	mg/L	—	J	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.0451	—	—	3.50E-02	mg/L	J	J-	12-176	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	—	0.223	—	—	3.50E-02	mg/L	—	J+	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Geninorg	EPA:351.2	Total Kjeldahl Nitrogen	<	0.5	—	—	1.80E-01	mg/L	U	UJ	11-2349	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Geninorg	SW-846:9060	Total Organic Carbon	—	0.479	—	—	3.30E-01	mg/L	J	J	12-176	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.485	—	—	3.30E-01	mg/L	J	J	12-176	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.368	—	—	3.30E-01	mg/L	J	J	11-2349	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Geninorg	EPA:150.1	pH	—	8.09	—	—	1.00E-02	SU	H	J-	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.1	—	—	1.00E-02	SU	H	J-	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.05	—	—	1.00E-02	SU	H	J-	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.96	—	—	1.00E-02	SU	H	J-	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Metals	SW-846:6010B	Barium	—	28.9	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.6	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	27.8	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-22943	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.3	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Metals	SW-846:6010B	Barium	—	29.2	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.1	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	28.8	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.03	—	—	2.00E+00	µg/L	J	J	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Metals	SW-846:6020	Chromium	—	2.04	—	—	2.00E+00	µg/L	J	J	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.43	—	—	2.00E+00	µg/L	J	J	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.2	—	—	2.00E+00	µg/L	J	J	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Metals	SW-846:6020	Molybdenum	—	1.14	—	—	1.70E-01	µg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.01	—	—	1.70E-01	µg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.08	—	—	1.70E-01	µg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.11	—	—	1.70E-01	µg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Metals	SW-846:6020	Molybdenum	—	1.09	—	—	1.70E-01	µg/L	—	—	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.11	—	—	1.70E-01	µg/L	—	—	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.05	—	—	1.70E-01	µg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.06	—	—	1.70E-01	µg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Metals	SW-846:6020	Nickel	—	0.743	—	—	5.00E-01	µg/L	J	J	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.568	—	—	5.00E-01	µg/L	J	J	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.678	—	—	5.00E-01	µg/L	J	J	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Metals	SW-846:6020	Nickel	—	0.58	—	—	5.00E-01	µg/L	J	J	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.783	—	—	5.00E-01	µg/L	J	J	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.521	—	—	5.00E-01	µg/L	J	J	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.731	—	—	5.00E-01	µg/L	J	J	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Metals	SW-846:6010B	Silicon Dioxide	—	72	—	—	5.30E-02	mg/L	—	—	12-177	CAPA-12-1199	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.5	—	—	5.30E-02	mg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70.9	—	—	5.30E-02	mg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	74.4	—	—	5.30E-02	mg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Metals	SW-846:6010B	Strontium	—	45	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	45.2	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	44.9	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	46	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Metals	SW-846:6010B	Strontium	—	45.9	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	46	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	46.8	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	45.7	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Metals	SW-846:6020	Uranium	—	0.363	—	—	6.70E-02	µg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.348	—	—	6.70E-02	µg/L	—	—	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.344	—	—	6.70E-02	µg/L	—	—	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.404	—	—	6.70E-02	µg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Metals	SW-846:6020	Uranium	—	0.36	—	—	6.70E-02	µg/L	—	—	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.374	—	—	6.70E-02	µg/L	—	—	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.342	—	—	6.70E-02	µg/L	—	—	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.385	—	—	6.70E-02	µg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	F	CS	FD	Metals	SW-846:6010B	Vanadium	—	5.34	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1199	GELC
R-53	959.7	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.92	—	—	1.00E+00	µg/L	J	J	12-177	CAPA-12-1195	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.69	—	—	1.00E+00	µg/L	J	J	11-2835	CAPA-11-22943	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.7	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Metals	SW-846:6010B	Vanadium	—	4.75	—	—	1.00E+00	µg/L	J	J	12-177	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.01	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.82	—	—	1.00E+00	µg/L	J	J	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	6.5	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9491	GELC
R-53	959.7	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	4.06	—	—	3.30E+00	µg/L	J	U	11-2835	CAPA-11-22943	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	959.7	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2350	CAPA-11-9492	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Metals	SW-846:6010B	Zinc	—	3.32	—	—	3.30E+00	µg/L	J	J	12-177	CAPA-12-1197	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	4.17	—	—	3.30E+00	µg/L	J	U	11-2835	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	4.88	—	—	3.30E+00	µg/L	J	J	11-2350	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	HASL-300	Americium-241	<	0.017	3.13E-03	3.80E-02	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0083	1.40E-03	3.20E-02	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00954	3.07E-03	1.40E-02	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	3.15	2.00E+00	1.90E+01	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0053	2.17E-03	5.40E-02	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-0.784	1.73E+00	1.50E+01	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	EPA:901.1	Cesium-137	<	-1.2	5.33E-01	5.10E+00	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.86	6.67E-01	7.10E+00	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.02	5.00E-01	4.50E+00	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.11	4.67E-01	5.10E+00	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	EPA:901.1	Cobalt-60	<	2.32	5.00E-01	6.40E+00	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.03	4.00E-01	4.80E+00	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.877	4.67E-01	4.20E+00	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.323	5.67E-01	6.00E+00	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	EPA:900	Gross alpha	<	0.359	2.20E-01	2.60E+00	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.278	2.40E-01	2.90E+00	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.16	2.90E-01	2.10E+00	—	pCi/L	—	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.669	1.77E-01	2.80E+00	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	EPA:900	Gross beta	<	1.99	2.83E-01	2.70E+00	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.78	3.13E-01	2.30E+00	—	pCi/L	—	—	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.1	2.97E-01	2.30E+00	—	pCi/L	—	—	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	-0.589	2.57E-01	2.90E+00	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	EPA:901.1	Neptunium-237	<	-3.55	1.07E+00	1.10E+01	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.272	8.00E-01	8.60E+00	—	pCi/L	U	U	12-178	CAPA-12-1196	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	959.7	01/13/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.787	9.33E-01	9.00E+00	—	pCi/L	U	U	11-1102	CAPA-11-3092	GELC
R-53	959.7	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.33	1.03E+00	1.00E+01	—	pCi/L	U	U	11-129	CAPA-10-27464	GELC
R-53	959.7	07/26/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.992	8.33E-01	8.10E+00	—	pCi/L	U	U	10-3845	CAPA-10-24179	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	HASL-300	Plutonium-238	<	0.00875	3.67E-03	5.10E-02	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00855	2.30E-03	3.90E-02	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00216	1.23E-03	3.70E-02	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0099	1.37E-03	2.80E-02	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	HASL-300	Plutonium-239/240	<	-0.00291	1.70E-03	4.90E-02	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00257	2.70E-03	3.80E-02	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.0172	2.70E-03	5.30E-02	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.000528	1.77E-03	4.60E-02	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	EPA:901.1	Potassium-40	<	24.5	5.00E+00	5.20E+01	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	2.18	5.33E+00	6.60E+01	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-2.2	4.67E+00	4.60E+01	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-17.3	6.00E+00	5.80E+01	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.645	6.33E-02	2.90E-01	—	pCi/L	—	—	12-178	CAPA-12-1196	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.374	5.00E-02	4.30E-01	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	EPA:901.1	Sodium-22	<	1.11	5.33E-01	6.10E+00	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.751	3.67E-01	4.10E+00	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.6	4.67E-01	3.90E+00	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.12	4.67E-01	4.30E+00	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	EPA:905.0	Strontium-90	<	-0.251	3.67E-02	4.80E-01	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.167	4.67E-02	4.80E-01	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.00652	4.00E-02	4.60E-01	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.152	5.00E-02	5.30E-01	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	0.34	2.07E-01	2.08E+00	—	pCi/L	U	U	12-179	CAPA-12-1197	ARSL
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.21	2.13E-01	2.18E+00	—	pCi/L	U	U	12-179	CAPA-12-1196	ARSL
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.83018	2.13E-01	2.14E+00	—	pCi/L	U	U	11-2878	CAPA-11-22941	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.05369	2.45E-01	2.52E+00	—	pCi/L	U	U	11-2438	CAPA-11-9491	ARSL
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-234	—	0.212	1.00E-02	4.80E-02	—	pCi/L	—	—	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.178	9.67E-03	5.30E-02	—	pCi/L	—	—	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.238	1.10E-02	6.50E-02	—	pCi/L	—	—	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.218	9.67E-03	5.80E-02	—	pCi/L	—	—	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-235/236	<	0.00708	2.37E-03	3.50E-02	—	pCi/L	U	U	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0157	2.63E-03	3.90E-02	—	pCi/L	U	U	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00733	1.73E-03	3.50E-02	—	pCi/L	U	U	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00554	2.27E-03	4.50E-02	—	pCi/L	U	U	11-2351	CAPA-11-9491	GELC
R-53	959.7	10/25/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-238	—	0.0888	6.00E-03	5.60E-02	—	pCi/L	—	—	12-178	CAPA-12-1197	GELC
R-53	959.7	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.14	8.00E-03	6.20E-02	—	pCi/L	—	—	12-178	CAPA-12-1196	GELC
R-53	959.7	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.13	7.67E-03	3.90E-02	—	pCi/L	—	—	11-2836	CAPA-11-22941	GELC
R-53	959.7	05/06/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0941	6.67E-03	3.00E-02	—	pCi/L	—	—	11-2351	CAPA-11-9491	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	66.9	—	—	7.30E-01	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	58.4	—	—	7.30E-01	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.5	—	—	7.30E-01	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	58.5	—	—	7.30E-01	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.7	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0777	—	—	6.60E-02	mg/L	J	J	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.6	—	—	5.00E-02	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.8	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.7	—	—	5.00E-02	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.2	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.2	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27455	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.7	—	—	5.00E-02	mg/L	—	—	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.8	—	—	5.00E-02	mg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	9.93	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	10.3	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.78	—	—	6.60E-02	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.81	—	—	6.60E-02	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.94	—	—	6.60E-02	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	J+	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.76	—	—	6.60E-02	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.267	—	—	3.30E-02	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.274	—	—	3.30E-02	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.278	—	—	3.30E-02	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.247	—	—	3.30E-02	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.233	—	—	3.30E-02	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39	—	—	4.50E-01	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39.6	—	—	4.50E-01	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	39.5	—	—	4.50E-01	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	37.7	—	—	3.50E-01	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	37.8	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	39	—	—	4.50E-01	mg/L	—	—	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.3	—	—	4.50E-01	mg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.2	—	—	4.50E-01	mg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	37	—	—	3.50E-01	mg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	38	—	—	3.50E-01	mg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.03	—	—	1.10E-01	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.06	—	—	1.10E-01	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.09	—	—	1.10E-01	mg/L	—	—	11-2350	CAPA-11-9484	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.98	—	—	8.50E-02	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.97	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.02	—	—	1.10E-01	mg/L	—	—	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.1	—	—	1.10E-01	mg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.22	—	—	1.10E-01	mg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.97	—	—	8.50E-02	mg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.99	—	—	8.50E-02	mg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.356	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.342	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.471	—	—	1.00E-01	mg/L	J	J-	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.337	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.379	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.3	—	—	5.00E-02	µg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.286	—	—	5.00E-02	µg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.287	—	—	5.00E-02	µg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.275	—	—	5.00E-02	µg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.283	—	—	5.00E-02	µg/L	—	J+	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.68	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.56	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.54	—	—	5.00E-02	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.75	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.59	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.64	—	—	5.00E-02	mg/L	—	J	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.55	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.59	—	—	5.00E-02	mg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.7	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.61	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.8	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	121	—	—	1.00E+00	µS/cm	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	123	—	—	1.00E+00	µS/cm	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	129	—	—	1.00E+00	µS/cm	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	124	—	—	1.00E+00	µS/cm	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	124	—	—	1.00E+00	µS/cm	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.86	—	—	1.00E-01	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.82	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.06	—	—	1.00E-01	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.88	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.93	—	—	1.00E-01	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	137	—	—	3.40E+00	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	127	—	—	3.40E+00	mg/L	—	J	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	144	—	—	2.40E+00	mg/L	—	J	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	123	—	—	2.40E+00	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	129	—	—	2.40E+00	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.521	—	—	3.30E-01	mg/L	J	J	12-176	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.414	—	—	3.30E-01	mg/L	J	J	11-2349	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.35	—	—	3.30E-01	mg/L	J	J	11-1105	CAPA-11-3089	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.711	—	—	3.30E-01	mg/L	J	J	11-127	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.97	—	—	1.00E-02	SU	H	J-	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.02	—	—	1.00E-02	SU	H	J-	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.97	—	—	1.00E-02	SU	H	J-	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.97	—	—	1.00E-02	SU	H	J-	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.89	—	—	1.00E-02	SU	H	J-	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	22.5	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	22.6	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	22.5	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	23.5	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	24.3	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22.5	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	23.1	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	23.2	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22.4	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	24.5	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.26	—	—	1.70E-01	µg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.18	—	—	1.70E-01	µg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.32	—	—	1.70E-01	µg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.39	—	—	1.70E-01	µg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.52	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.2	—	—	1.70E-01	µg/L	—	—	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.2	—	—	1.70E-01	µg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.32	—	—	1.70E-01	µg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.4	—	—	1.70E-01	µg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.47	—	—	1.00E-01	µg/L	—	J	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.5	—	—	5.00E-01	µg/L	J	J	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.4	—	—	5.00E-01	µg/L	J	J	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.49	—	—	5.00E-01	µg/L	J	J	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.846	—	—	5.00E-01	µg/L	J	J	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.662	—	—	5.00E-01	µg/L	J	J	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.45	—	—	5.00E-01	µg/L	J	J	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.32	—	—	5.00E-01	µg/L	J	J	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.46	—	—	5.00E-01	µg/L	J	J	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.729	—	—	5.00E-01	µg/L	J	J	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.74	—	—	5.00E-01	µg/L	J	J	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69	—	—	5.30E-02	mg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.3	—	—	5.30E-02	mg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.8	—	—	5.30E-02	mg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70.1	—	—	5.30E-02	mg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	65.6	—	—	5.30E-02	mg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	44.3	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	45.2	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	43.5	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	44.3	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	42.3	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	44.2	—	—	1.00E+00	µg/L	—	—	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	45.9	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	44	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	43.1	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	42.3	—	—	1.00E+00	µg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.456	—	—	6.70E-02	µg/L	—	—	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.445	—	—	6.70E-02	µg/L	—	—	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.509	—	—	6.70E-02	µg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.505	—	—	6.70E-02	µg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.487	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27455	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.467	—	—	6.70E-02	µg/L	—	—	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.431	—	—	6.70E-02	µg/L	—	—	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.508	—	—	6.70E-02	µg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.554	—	—	6.70E-02	µg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.531	—	—	5.00E-02	µg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.55	—	—	1.00E+00	µg/L	J	J	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.57	—	—	1.00E+00	µg/L	J	J	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.48	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.52	—	—	1.00E+00	µg/L	J	J	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.22	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.46	—	—	1.00E+00	µg/L	J	J	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.58	—	—	1.00E+00	µg/L	J	J	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.2	—	—	1.00E+00	µg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.59	—	—	1.00E+00	µg/L	J	J	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.35	—	—	1.00E+00	µg/L	J	J	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	8.19	—	—	3.30E+00	µg/L	J	J	12-177	CAPA-12-1191	GELC
R-53	849.2	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	11.6	—	—	3.30E+00	µg/L	—	U	11-2835	CAPA-11-22937	GELC
R-53	849.2	05/06/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	15.1	—	—	3.30E+00	µg/L	—	—	11-2350	CAPA-11-9484	GELC
R-53	849.2	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	65	—	—	3.30E+00	µg/L	—	—	11-1105	CAPA-11-3088	GELC
R-53	849.2	10/12/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	76.3	—	—	3.30E+00	µg/L	—	—	11-128	CAPA-10-27455	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	9.96	—	—	3.30E+00	µg/L	J	J	12-177	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	14.2	—	—	3.30E+00	µg/L	—	U	11-2835	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	19.8	—	—	3.30E+00	µg/L	—	—	11-2350	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	62.9	—	—	3.30E+00	µg/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	83.7	—	—	3.30E+00	µg/L	—	—	11-128	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0164	1.97E-03	3.20E-02	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-64.2	6.67E+00	5.80E+01	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00796	2.30E-03	1.50E-02	—	pCi/L	U	U	11-2836	CAPA-11-22939	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	0.866	1.90E+00	1.90E+01	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00859	4.67E-03	4.40E-02	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00295	1.10E-03	2.50E-02	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00145	6.33E-04	3.60E-02	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.535	4.00E-01	4.60E+00	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	3.86	5.67E-01	6.40E+00	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.335	3.67E-01	3.70E+00	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.24	7.00E-01	7.30E+00	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.00582	5.33E-01	5.30E+00	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.402	5.00E-01	5.70E+00	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.0599	5.67E-01	5.70E+00	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-2.24	5.33E-01	4.60E+00	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.23	4.33E-01	4.60E+00	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.428	5.00E-01	5.10E+00	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.213	2.23E-01	3.00E+00	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.75	2.60E-01	1.80E+00	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.531	2.03E-01	2.90E+00	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.397	1.90E-01	2.20E+00	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.962	2.73E-01	2.90E+00	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.12	3.30E-01	2.80E+00	—	pCi/L	—	—	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	5.87	3.67E-01	2.30E+00	—	pCi/L	—	—	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.3	2.83E-01	3.00E+00	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.882	2.80E-01	2.90E+00	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.1	2.80E-01	2.50E+00	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	3.39	8.00E-01	8.90E+00	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.273	7.00E-01	7.30E+00	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.015	1.17E+00	1.10E+01	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	07/26/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-8.2	9.67E-01	7.60E+00	—	pCi/L	U	U	10-3845	CAPA-10-24174	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	04/19/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	3.99	3.33E+00	3.40E+01	—	pCi/L	U	U	10-2823	CAPA-10-15928	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00693	2.27E-03	2.70E-02	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00554	3.30E-03	3.20E-02	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00394	1.30E-03	3.10E-02	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00596	2.37E-03	2.20E-02	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0146	1.87E-03	2.40E-02	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00802	1.47E-03	2.70E-02	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00553	1.07E-03	4.50E-02	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00394	1.87E-03	5.00E-02	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00432	1.77E-03	4.10E-02	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00417	1.40E-03	4.10E-02	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-3.34	5.33E+00	6.20E+01	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-21.2	7.33E+00	7.10E+01	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	4.29	5.00E+00	5.50E+01	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-24.5	5.00E+00	4.20E+01	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-41.6	7.33E+00	6.40E+01	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.266	4.33E-02	3.60E-01	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.343	4.67E-02	4.10E-01	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.28	3.33E-01	3.40E+00	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.46	5.00E-01	4.90E+00	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.935	4.00E-01	3.50E+00	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.704	5.00E-01	4.70E+00	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.72	5.00E-01	5.60E+00	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.253	4.33E-02	4.80E-01	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0757	4.00E-02	4.20E-01	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.254	5.33E-02	5.30E-01	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0751	4.67E-02	4.90E-01	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.118	4.33E-02	4.60E-01	—	pCi/L	U	U	11-129	CAPA-10-27456	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.31	1.97E-01	1.96E+00	—	pCi/L	U	U	12-179	CAPA-12-1192	ARSL
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.38316	2.34E-01	2.36E+00	—	pCi/L	U	U	11-2878	CAPA-11-22939	ARSL
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.57474	1.49E-01	1.50E+00	—	pCi/L	U	U	11-2438	CAPA-11-9483	ARSL
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	9.54707	5.43E-01	2.17E+00	—	pCi/L	—	R	11-1122	CAPA-11-3089	ARSL
R-53	849.2	01/14/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	8.97233	5.11E-01	2.17E+00	—	pCi/L	—	—	11-1122	CAPA-11-3089	ARSL
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.22493	2.77E-01	2.17E+00	—	pCi/L	—	R	11-195	CAPA-10-27456	ARSL
R-53	849.2	10/12/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	4.27862	3.19E-01	2.17E+00	—	pCi/L	—	U	11-195	CAPA-10-27456	ARSL
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.358	1.40E-02	5.00E-02	—	pCi/L	—	—	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.238	1.00E-02	5.80E-02	—	pCi/L	—	—	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.376	1.33E-02	5.80E-02	—	pCi/L	—	—	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.277	1.13E-02	5.00E-02	—	pCi/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.264	9.33E-03	3.00E-02	—	pCi/L	—	J	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0	1.23E-03	3.70E-02	—	pCi/L	U	U	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00973	1.90E-03	3.10E-02	—	pCi/L	U	U	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00556	2.27E-03	4.50E-02	—	pCi/L	U	U	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0221	3.67E-03	3.70E-02	—	pCi/L	U	U	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0176	2.10E-03	2.30E-02	—	pCi/L	U	U	11-129	CAPA-10-27456	GELC
R-53	849.2	10/25/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.153	8.00E-03	5.90E-02	—	pCi/L	—	—	12-178	CAPA-12-1192	GELC
R-53	849.2	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.129	7.33E-03	3.50E-02	—	pCi/L	—	—	11-2836	CAPA-11-22939	GELC
R-53	849.2	05/06/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.178	8.00E-03	3.00E-02	—	pCi/L	—	—	11-2351	CAPA-11-9483	GELC
R-53	849.2	01/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.11	6.33E-03	3.50E-02	—	pCi/L	—	—	11-1105	CAPA-11-3089	GELC
R-53	849.2	10/12/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.169	7.00E-03	1.80E-02	—	pCi/L	—	—	11-129	CAPA-10-27456	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	58	—	—	7.30E-01	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.5	—	—	7.30E-01	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.1	—	—	7.30E-01	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	58.5	—	—	7.30E-01	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	56.8	—	—	7.30E-01	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0166	—	—	1.60E-02	mg/L	J	J	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.016	—	—	1.60E-02	mg/L	J	J-	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.067	—	—	1.60E-02	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.3	—	—	5.00E-02	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.4	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.3	—	—	5.00E-02	mg/L	—	—	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.5	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.3	—	—	5.00E-02	mg/L	—	—	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.88	—	—	6.60E-02	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.89	—	—	6.60E-02	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.98	—	—	6.60E-02	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.86	—	—	6.60E-02	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.224	—	—	3.30E-02	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.226	—	—	3.30E-02	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.26	—	—	3.30E-02	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.219	—	—	3.30E-02	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.198	—	—	3.30E-02	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	43.7	—	—	4.50E-01	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.7	—	—	4.50E-01	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	42.8	—	—	4.50E-01	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	43	—	—	3.50E-01	mg/L	—	—	11-1069	CAPA-11-3051	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	43.8	—	—	3.50E-01	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	43.6	—	—	4.50E-01	mg/L	—	—	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.1	—	—	4.50E-01	mg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	42.8	—	—	4.50E-01	mg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	41.3	—	—	3.50E-01	mg/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	43.2	—	—	3.50E-01	mg/L	—	—	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.14	—	—	1.10E-01	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.94	—	—	1.10E-01	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.16	—	—	1.10E-01	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.1	—	—	8.50E-02	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.07	—	—	8.50E-02	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.12	—	—	1.10E-01	mg/L	—	—	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.01	—	—	1.10E-01	mg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.17	—	—	1.10E-01	mg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.99	—	—	8.50E-02	mg/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.02	—	—	8.50E-02	mg/L	—	—	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.383	—	—	5.00E-02	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.389	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.33	—	—	1.00E-02	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.293	—	—	5.00E-02	mg/L	—	J-	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.457	—	—	5.00E-02	mg/L	—	J	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.27	—	—	5.00E-02	µg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.27	—	—	5.00E-02	µg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.261	—	—	5.00E-02	µg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.292	—	—	5.00E-02	µg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.284	—	—	5.00E-02	µg/L	—	J+	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.87	—	—	5.00E-02	mg/L	—	J	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.65	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22977	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.7	—	—	5.00E-02	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.03	—	—	5.00E-02	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.01	—	—	5.00E-02	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.88	—	—	5.00E-02	mg/L	—	J	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.71	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.98	—	—	5.00E-02	mg/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.02	—	—	5.00E-02	mg/L	—	—	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.36	—	—	1.00E-01	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.7	—	—	1.00E-01	mg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	124	—	—	1.00E+00	µS/cm	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	121	—	—	1.00E+00	µS/cm	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	129	—	—	1.00E+00	µS/cm	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	126	—	—	1.00E+00	µS/cm	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	125	—	—	1.00E+00	µS/cm	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.99	—	—	1.00E-01	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.9	—	—	1.00E-01	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.13	—	—	1.00E-01	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.99	—	—	1.00E-01	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.86	—	—	1.00E-01	mg/L	—	—	11-142	CAPA-10-27448	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	133	—	—	3.40E+00	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	3.40E+00	mg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	146	—	—	2.40E+00	mg/L	—	J	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	134	—	—	2.40E+00	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	135	—	—	2.40E+00	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.026	—	—	1.50E-02	mg/L	J	J	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.123	—	—	1.50E-02	mg/L	—	U	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.0383	—	—	1.50E-02	mg/L	J	U	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.015	—	—	1.50E-02	mg/L	J	J	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.052	—	—	1.50E-02	mg/L	—	U	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.12	—	—	1.00E-02	SU	H	J-	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.24	—	—	1.00E-02	SU	H	J-	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.09	—	—	1.00E-02	SU	H	J-	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.3	—	—	1.00E-02	SU	H	J-	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.18	—	—	1.00E-02	SU	H	J-	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	9.78	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	9.64	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	9.57	—	—	1.00E+00	µg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	10.4	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	10.4	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	9.86	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	9.75	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	9.71	—	—	1.00E+00	µg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	12.2	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	10.4	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.66	—	—	2.00E+00	µg/L	J	J	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2329	CAPA-11-9501	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	01/12/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.15	—	—	2.50E+00	µg/L	J	J	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.33	—	—	2.00E+00	µg/L	J	J	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.42	—	—	2.50E+00	µg/L	J	J	11-142	CAPA-10-27446	GELC
R-54	915	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	34.4	—	—	3.00E+01	µg/L	J	J	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	39	—	—	3.00E+01	µg/L	J	J	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	36.5	—	—	3.00E+01	µg/L	J	J	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.34	—	—	1.70E-01	µg/L	—	J	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.13	—	—	1.70E-01	µg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.11	—	—	1.70E-01	µg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.16	—	—	1.70E-01	µg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.17	—	—	1.00E-01	µg/L	—	J	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.29	—	—	1.70E-01	µg/L	—	J	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.15	—	—	1.70E-01	µg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.11	—	—	1.70E-01	µg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.16	—	—	1.70E-01	µg/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.2	—	—	1.00E-01	µg/L	—	J	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.6	—	—	5.30E-02	mg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	72.8	—	—	5.30E-02	mg/L	—	—	11-2798	CAPA-11-22977	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	05/05/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	72.7	—	—	5.30E-02	mg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	74.7	—	—	5.30E-02	mg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	72.6	—	—	5.30E-02	mg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.5	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	51.8	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	52	—	—	1.00E+00	µg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.5	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.6	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	56.3	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	52.2	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	52.4	—	—	1.00E+00	µg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	54.7	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	55.6	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Metals	SW-846:6020	Thallium	—	0.49	—	—	4.50E-01	µg/L	J	J	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	2	—	—	4.50E-01	µg/L	U	U	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	2	—	—	4.50E-01	µg/L	U	U	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	2	—	—	4.50E-01	µg/L	U	U	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Metals	SW-846:6020	Thallium	<	1	—	—	3.00E-01	µg/L	U	U	11-142	CAPA-10-27448	GELC
R-54	915	07/12/11	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	2	—	—	4.50E-01	µg/L	U	U	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	2	—	—	4.50E-01	µg/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	2	—	—	4.50E-01	µg/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Metals	SW-846:6020	Thallium	<	1	—	—	3.00E-01	µg/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.83	—	—	1.00E+00	µg/L	J	J	12-230	CAPA-12-1170	GELC
R-54	915	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.02	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22977	GELC
R-54	915	05/05/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.11	—	—	1.00E+00	µg/L	—	—	11-2329	CAPA-11-9501	GELC
R-54	915	01/12/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.04	—	—	1.00E+00	µg/L	—	—	11-1069	CAPA-11-3051	GELC
R-54	915	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.14	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27448	GELC
R-54	915	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.07	—	—	1.00E+00	µg/L	—	—	12-230	CAPA-12-1172	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.1	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.45	—	—	1.00E+00	µg/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.87	—	—	1.00E+00	µg/L	J	J	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.11	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00573	2.47E-03	3.00E-02	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0169	2.47E-03	2.90E-02	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-35.3	3.33E+00	3.10E+01	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00735	1.73E-03	3.70E-02	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-10.5	2.20E+00	2.10E+01	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.000299	8.00E-04	2.50E-02	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00851	1.43E-03	3.40E-02	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.466	4.67E-01	5.50E+00	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.312	5.33E-01	5.00E+00	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.131	5.00E-01	5.00E+00	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.88	4.33E-01	3.90E+00	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.804	5.67E-01	5.50E+00	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.222	5.00E-01	5.90E+00	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.5	5.00E-01	5.40E+00	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	3.77	6.00E-01	6.90E+00	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.206	4.67E-01	4.60E+00	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.24	4.67E-01	5.50E+00	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.53	2.87E-01	2.50E+00	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.84	2.60E-01	2.80E+00	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.33	3.03E-01	2.80E+00	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.373	1.53E-01	1.90E+00	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.426	1.87E-01	2.30E+00	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.934	2.43E-01	2.50E+00	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.751	2.90E-01	3.00E+00	—	pCi/L	U	U	11-2799	CAPA-11-22976	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.226	2.73E-01	2.90E+00	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.86	3.07E-01	3.00E+00	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.747	2.10E-01	2.10E+00	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.915	1.07E+00	1.10E+01	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.982	8.67E-01	8.20E+00	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.417	8.67E-01	8.70E+00	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	07/27/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.433	1.07E+00	1.10E+01	—	pCi/L	U	U	10-3860	CAPA-10-24165	GELC
R-54	915	06/18/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.9	9.00E-01	8.30E+00	—	pCi/L	U	U	10-3458	CAPA-10-18479	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00432	3.67E-03	4.90E-02	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0101	2.07E-03	3.80E-02	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00387	1.30E-03	3.00E-02	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00227	1.70E-03	2.50E-02	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00837	1.40E-03	2.40E-02	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00432	1.43E-03	6.80E-02	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.20E-03	5.20E-02	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00581	1.13E-03	4.90E-02	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00681	1.70E-03	4.50E-02	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00628	1.57E-03	4.10E-02	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	11.9	7.33E+00	8.80E+01	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-22.6	5.67E+00	5.60E+01	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-23.3	6.67E+00	6.50E+01	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-13.6	5.67E+00	5.30E+01	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	20.8	5.33E+00	5.90E+01	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.526	7.00E-02	5.70E-01	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.0173	5.00E-02	5.60E-01	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	3.16	5.00E-01	7.00E+00	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.242	4.00E-01	4.20E+00	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.74	5.00E-01	5.60E+00	—	pCi/L	U	U	11-2329	CAPA-11-9500	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.746	4.67E-01	4.30E+00	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.17	5.00E-01	5.40E+00	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.00481	4.33E-02	4.70E-01	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.229	4.67E-02	4.60E-01	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.084	4.33E-02	5.00E-01	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.09	4.67E-02	4.80E-01	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0563	4.33E-02	4.70E-01	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.33	2.17E-01	2.20E+00	—	pCi/L	U	U	12-244	CAPA-12-1172	ARSL
R-54	915	07/12/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.12772	2.45E-01	2.52E+00	—	pCi/L	U	U	11-2800	CAPA-11-22976	ARSL
R-54	915	05/05/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.60667	2.24E-01	2.27E+00	—	pCi/L	U	U	11-2438	CAPA-11-9500	ARSL
R-54	915	01/12/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.58633	3.09E-01	2.65E+00	—	pCi/L	U	R	11-1122	CAPA-11-3050	ARSL
R-54	915	01/12/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.89404	2.66E-01	2.65E+00	—	pCi/L	U	U	11-1122	CAPA-11-3050	ARSL
R-54	915	10/13/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.58633	2.24E-01	1.76E+00	—	pCi/L	—	R	11-195	CAPA-10-27446	ARSL
R-54	915	10/13/10	WG	UF	DUP	—	Rad	LLEE	Tritium	<	3.28879	3.30E-01	2.75E+00	—	pCi/L	—	R	11-195	CAPA-10-27446	ARSL
R-54	915	10/13/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	4.56599	2.98E-01	1.76E+00	—	pCi/L	—	U	11-195	CAPA-10-27446	ARSL
R-54	915	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.24	9.00E-03	4.80E-02	—	pCi/L	—	—	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.269	1.00E-02	4.00E-02	—	pCi/L	—	—	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.259	1.00E-02	5.30E-02	—	pCi/L	—	—	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.278	1.00E-02	3.60E-02	—	pCi/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.342	1.20E-02	3.40E-02	—	pCi/L	—	J	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0116	2.33E-03	2.50E-02	—	pCi/L	U	U	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0179	2.13E-03	2.20E-02	—	pCi/L	U	U	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0178	2.57E-03	4.10E-02	—	pCi/L	U	U	11-2329	CAPA-11-9500	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	2.7E-10	1.50E-03	2.70E-02	—	pCi/L	U	U	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00495	2.33E-03	2.60E-02	—	pCi/L	U	U	11-142	CAPA-10-27446	GELC
R-54	915	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0993	5.00E-03	2.10E-02	—	pCi/L	—	—	12-231	CAPA-12-1172	GELC
R-54	915	07/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0887	5.33E-03	2.40E-02	—	pCi/L	—	—	11-2799	CAPA-11-22976	GELC
R-54	915	05/05/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.121	6.33E-03	2.80E-02	—	pCi/L	—	—	11-2329	CAPA-11-9500	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	915	01/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.138	6.33E-03	2.50E-02	—	pCi/L	—	—	11-1069	CAPA-11-3050	GELC
R-54	915	10/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.172	7.67E-03	2.00E-02	—	pCi/L	—	—	11-142	CAPA-10-27446	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	66.9	—	—	7.30E-01	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	78.2	—	—	7.30E-01	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	66.8	—	—	7.30E-01	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	87.2	—	—	7.30E-01	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	55.2	—	—	7.30E-01	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0376	—	—	1.60E-02	mg/L	J	J	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0228	—	—	1.60E-02	mg/L	J	J-	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.035	—	—	1.60E-02	mg/L	J	J	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	9.7	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.8	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	9.58	—	—	5.00E-02	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.4	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	9.38	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	9.51	—	—	5.00E-02	mg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.4	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.6	—	—	5.00E-02	mg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.88	—	—	6.60E-02	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.85	—	—	6.60E-02	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.9	—	—	6.60E-02	mg/L	—	J+	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.9	—	—	6.60E-02	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.254	—	—	3.30E-02	mg/L	—	—	12-265	CAPA-12-1169	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.256	—	—	3.30E-02	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.204	—	—	3.30E-02	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.271	—	—	3.30E-02	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.216	—	—	3.30E-02	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	41.9	—	—	4.50E-01	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	49.7	—	—	4.50E-01	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	40.6	—	—	4.50E-01	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	52.8	—	—	3.50E-01	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	55.7	—	—	3.50E-01	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.3	—	—	4.50E-01	mg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	50.2	—	—	4.50E-01	mg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	40.2	—	—	4.50E-01	mg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	52.6	—	—	3.50E-01	mg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	59.7	—	—	3.50E-01	mg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.29	—	—	1.10E-01	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.93	—	—	1.10E-01	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.05	—	—	1.10E-01	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.3	—	—	8.50E-02	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.28	—	—	8.50E-02	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.11	—	—	1.10E-01	mg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5	—	—	1.10E-01	mg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.98	—	—	1.10E-01	mg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.23	—	—	8.50E-02	mg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	5.66	—	—	8.50E-02	mg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.282	—	—	5.00E-02	mg/L	—	J-	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	1.06	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	07/12/11	WG	F	RE	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.197	—	—	1.00E-02	mg/L	H	J-	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.332	—	—	5.00E-02	mg/L	—	J-	11-2304	CAPA-11-9497	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.259	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.279	—	—	5.00E-02	mg/L	—	J	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.236	—	—	5.00E-02	µg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.206	—	—	5.00E-02	µg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.248	—	—	5.00E-02	µg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.21	—	—	5.00E-02	µg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.183	—	—	5.00E-02	µg/L	J	J+	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.62	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.7	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.43	—	—	5.00E-02	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.07	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.98	—	—	5.00E-02	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.55	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.73	—	—	5.00E-02	mg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.5	—	—	5.00E-02	mg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.01	—	—	5.00E-02	mg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.07	—	—	5.00E-02	mg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.9	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.5	—	—	1.00E-01	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.6	—	—	1.00E-01	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	17.6	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	19.1	—	—	1.00E-01	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.5	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	14.7	—	—	1.00E-01	mg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.4	—	—	1.00E-01	mg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	17.5	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	19.7	—	—	1.00E-01	mg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	138	—	—	1.00E+00	µS/cm	—	—	12-265	CAPA-12-1169	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	156	—	—	1.00E+00	µS/cm	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.91	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.74	—	—	1.00E-01	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.94	—	—	1.00E-01	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.84	—	—	1.00E-01	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	1.82	—	—	1.00E-01	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	114	—	—	3.40E+00	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	157	—	—	3.40E+00	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	141	—	—	2.40E+00	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	156	—	—	2.40E+00	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	165	—	—	2.40E+00	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.627	—	—	3.30E-01	mg/L	J	J	12-264	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.696	—	—	3.30E-01	mg/L	J	J	11-2797	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.57	—	—	3.30E-01	mg/L	J	J	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.996	—	—	3.30E-01	mg/L	J	J	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.27	—	—	3.30E-01	mg/L	—	—	11-141	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.3	—	—	1.00E-02	SU	H	J-	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.18	—	—	1.00E-02	SU	H	J-	11-2798	CAPA-11-22973	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	12.7	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	12.6	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	13.2	—	—	1.00E+00	µg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14.3	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	14.2	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	12.2	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	13.2	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	13.5	—	—	1.00E+00	µg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	14.7	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	15.3	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27444	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Cobalt	—	1.14	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Cobalt	—	1.9	—	—	1.00E+00	µg/L	J	J	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Cobalt	—	1.08	—	—	1.00E+00	µg/L	J	J	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Cobalt	—	2.44	—	—	1.00E+00	µg/L	J	J	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Cobalt	—	3.08	—	—	1.00E+00	µg/L	J	J	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Cobalt	—	1.04	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Cobalt	—	1.38	—	—	1.00E+00	µg/L	J	J	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Cobalt	<	5	—	—	1.00E+00	µg/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Cobalt	—	1.99	—	—	1.00E+00	µg/L	J	J	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Cobalt	—	2.66	—	—	1.00E+00	µg/L	J	J	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	689	—	—	3.00E+01	µg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	1530	—	—	3.00E+01	µg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	614	—	—	3.00E+01	µg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	2650	—	—	3.00E+01	µg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	3850	—	—	3.00E+01	µg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	696	—	—	3.00E+01	µg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	1490	—	—	3.00E+01	µg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	668	—	—	3.00E+01	µg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	2670	—	—	3.00E+01	µg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	4600	—	—	3.00E+01	µg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	133	—	—	2.00E+00	µg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	207	—	—	2.00E+00	µg/L	—	J	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	136	—	—	2.00E+00	µg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	252	—	—	2.00E+00	µg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	280	—	—	2.00E+00	µg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	128	—	—	2.00E+00	µg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	205	—	—	2.00E+00	µg/L	—	J	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	134	—	—	2.00E+00	µg/L	—	—	11-2304	CAPA-11-9499	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	251	—	—	2.00E+00	µg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	306	—	—	2.00E+00	µg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.93	—	—	1.70E-01	µg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.7	—	—	1.70E-01	µg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.06	—	—	1.70E-01	µg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.15	—	—	1.70E-01	µg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.92	—	—	1.00E-01	µg/L	—	J	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.92	—	—	1.70E-01	µg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.61	—	—	1.70E-01	µg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2	—	—	1.70E-01	µg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	3.17	—	—	1.70E-01	µg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	4	—	—	1.00E-01	µg/L	—	J	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.72	—	—	5.00E-01	µg/L	J	J	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.39	—	—	5.00E-01	µg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.3	—	—	5.00E-01	µg/L	J	J	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.41	—	—	5.00E-01	µg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	3.58	—	—	5.00E-01	µg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.41	—	—	5.00E-01	µg/L	J	J	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.28	—	—	5.00E-01	µg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.3	—	—	5.00E-01	µg/L	J	J	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	2.41	—	—	5.00E-01	µg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	3.49	—	—	5.00E-01	µg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.5	—	—	5.30E-02	mg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	72.5	—	—	5.30E-02	mg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	66	—	—	5.30E-02	mg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.9	—	—	5.30E-02	mg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.1	—	—	5.30E-02	mg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	47.5	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1169	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.4	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	46.4	—	—	1.00E+00	µg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	64.4	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	66.1	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	45.9	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	57.2	—	—	1.00E+00	µg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	45.9	—	—	1.00E+00	µg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	64.3	—	—	1.00E+00	µg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	70.6	—	—	1.00E+00	µg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.439	—	—	6.70E-02	µg/L	—	—	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.438	—	—	6.70E-02	µg/L	—	—	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.509	—	—	6.70E-02	µg/L	—	—	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.584	—	—	6.70E-02	µg/L	—	—	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.532	—	—	5.00E-02	µg/L	—	—	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.434	—	—	6.70E-02	µg/L	—	—	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.452	—	—	6.70E-02	µg/L	—	—	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.513	—	—	6.70E-02	µg/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.609	—	—	6.70E-02	µg/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.571	—	—	5.00E-02	µg/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.18	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1169	GELC
R-54	830	07/12/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	1.91	—	—	1.00E+00	µg/L	J	J	11-2798	CAPA-11-22973	GELC
R-54	830	05/04/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	2.47	—	—	1.00E+00	µg/L	J	J	11-2304	CAPA-11-9497	GELC
R-54	830	01/14/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	1.39	—	—	1.00E+00	µg/L	J	J	11-1105	CAPA-11-3048	GELC
R-54	830	10/13/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	5	—	—	1.00E+00	µg/L	U	U	11-142	CAPA-10-27445	GELC
R-54	830	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	2.8	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	2.44	—	—	1.00E+00	µg/L	J	J	11-2798	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	2.59	—	—	1.00E+00	µg/L	J	J	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	1.15	—	—	1.00E+00	µg/L	J	J	11-1105	CAPA-11-3047	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	10/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	5	—	—	1.00E+00	µg/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00187	6.33E-04	2.90E-02	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00432	1.43E-03	2.90E-02	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-13.7	2.17E+00	1.70E+01	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-10.7	2.33E+00	2.20E+01	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00591	1.13E-03	4.00E-02	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00123	1.33E-03	2.70E-02	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00167	9.67E-04	3.20E-02	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.781	4.67E-01	5.30E+00	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.671	4.67E-01	4.30E+00	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.59	4.67E-01	5.10E+00	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.371	3.33E-01	3.30E+00	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.93	5.00E-01	4.60E+00	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.11	4.00E-01	5.40E+00	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.29	4.33E-01	3.90E+00	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.16	5.00E-01	5.30E+00	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.708	3.67E-01	3.40E+00	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.36	4.33E-01	4.30E+00	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.0447	9.33E-02	1.50E+00	—	pCi/L	U	UJ	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.503	2.03E-01	2.40E+00	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.471	1.70E-01	2.00E+00	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.652	1.90E-01	1.90E+00	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.773	2.30E-01	2.50E+00	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.88	3.10E-01	2.20E+00	—	pCi/L	—	—	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	-0.861	2.47E-01	2.70E+00	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.01	3.00E-01	2.40E+00	—	pCi/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.75	3.30E-01	3.20E+00	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	-0.283	2.47E-01	2.80E+00	—	pCi/L	U	U	11-142	CAPA-10-27444	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	1.02	8.67E-01	9.20E+00	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	2.89	8.00E-01	6.00E+00	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.22	9.67E-01	8.80E+00	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	07/27/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.43	9.67E-01	9.20E+00	—	pCi/L	U	U	10-3860	CAPA-10-24160	GELC
R-54	830	06/18/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.835	1.03E+00	1.00E+01	—	pCi/L	U	U	10-3458	CAPA-10-18473	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0055	2.23E-03	3.10E-02	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00173	1.53E-03	3.10E-02	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0196	2.30E-03	3.10E-02	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0125	3.33E-03	2.30E-02	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0102	2.03E-03	2.30E-02	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0055	2.60E-03	4.30E-02	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00173	2.07E-03	4.30E-02	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00588	1.97E-03	5.00E-02	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00733	2.10E-03	4.30E-02	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00407	1.93E-03	4.00E-02	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	18.5	6.00E+00	7.20E+01	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	25.5	6.00E+00	6.50E+01	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-13.8	6.33E+00	5.80E+01	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	31.5	4.67E+00	4.70E+01	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-7.28	6.00E+00	6.70E+01	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	—	0.503	5.33E-02	4.10E-01	—	pCi/L	—	—	12-266	CAPA-12-1168	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.641	6.00E-02	4.10E-01	—	pCi/L	—	—	12-266	CAPA-12-1168	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.6	4.33E-01	3.80E+00	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.977	4.00E-01	3.50E+00	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.0522	4.00E-01	4.10E+00	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.66	2.33E-01	1.90E+00	—	pCi/L	UI	R	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.405	5.00E-01	5.00E+00	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.424	4.67E-02	4.50E-01	—	pCi/L	U	U	12-266	CAPA-12-1168	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.125	3.67E-02	3.60E-01	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.134	4.33E-02	4.50E-01	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0887	4.67E-02	4.80E-01	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.133	4.33E-02	4.70E-01	—	pCi/L	U	U	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.43	2.23E-01	2.30E+00	—	pCi/L	U	U	12-301	CAPA-12-1168	ARSL
R-54	830	07/12/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.50071	2.45E-01	2.52E+00	—	pCi/L	U	U	11-2800	CAPA-11-22972	ARSL
R-54	830	05/04/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.41509	2.13E-01	2.20E+00	—	pCi/L	U	U	11-2438	CAPA-11-9499	ARSL
R-54	830	01/14/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.2351	2.66E-01	2.30E+00	—	pCi/L	U	R	11-1122	CAPA-11-3047	ARSL
R-54	830	01/14/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.83018	2.34E-01	2.30E+00	—	pCi/L	U	U	11-1122	CAPA-11-3047	ARSL
R-54	830	10/13/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.79967	3.30E-01	2.59E+00	—	pCi/L	—	R	11-195	CAPA-10-27444	ARSL
R-54	830	10/13/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	2.36282	2.87E-01	2.59E+00	—	pCi/L	U	U	11-195	CAPA-10-27444	ARSL
R-54	830	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.332	1.23E-02	6.50E-02	—	pCi/L	—	—	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.32	1.10E-02	4.00E-02	—	pCi/L	—	—	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.391	1.30E-02	5.20E-02	—	pCi/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.365	1.37E-02	5.20E-02	—	pCi/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.387	1.27E-02	3.20E-02	—	pCi/L	—	J	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0158	2.80E-03	3.40E-02	—	pCi/L	U	U	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0179	2.17E-03	2.20E-02	—	pCi/L	U	U	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0323	3.30E-03	4.00E-02	—	pCi/L	U	U	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00327	2.43E-03	3.90E-02	—	pCi/L	U	U	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0462	3.67E-03	2.40E-02	—	pCi/L	—	—	11-142	CAPA-10-27444	GELC
R-54	830	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.159	8.00E-03	2.90E-02	—	pCi/L	—	—	12-266	CAPA-12-1168	GELC
R-54	830	07/12/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.147	6.67E-03	2.40E-02	—	pCi/L	—	—	11-2799	CAPA-11-22972	GELC
R-54	830	05/04/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.169	7.33E-03	2.70E-02	—	pCi/L	—	—	11-2304	CAPA-11-9499	GELC
R-54	830	01/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.151	7.67E-03	3.70E-02	—	pCi/L	—	—	11-1105	CAPA-11-3047	GELC
R-54	830	10/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.155	6.67E-03	1.90E-02	—	pCi/L	—	—	11-142	CAPA-10-27444	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	72	—	—	7.30E-01	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	73	—	—	7.30E-01	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	72.9	—	—	7.30E-01	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	75.6	—	—	7.30E-01	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	119	—	—	7.30E-01	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.033	—	—	1.60E-02	mg/L	J	J	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.035	—	—	1.60E-02	mg/L	J	U	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0787	—	—	6.60E-02	mg/L	J	J	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.0807	—	—	6.60E-02	mg/L	J	J	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	<	0.2	—	—	6.60E-02	mg/L	U	U	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	18.4	—	—	5.00E-02	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	18.8	—	—	5.00E-02	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.6	—	—	5.00E-02	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.4	—	—	5.00E-02	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	17	—	—	5.00E-02	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.6	—	—	5.00E-02	mg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	18.8	—	—	5.00E-02	mg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.8	—	—	5.00E-02	mg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.5	—	—	5.00E-02	mg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.1	—	—	5.00E-02	mg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.62	—	—	6.60E-02	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.74	—	—	6.60E-02	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	16.4	—	—	6.60E-02	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.83	—	—	6.60E-02	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.69	—	—	6.60E-02	mg/L	—	—	10-4498	CAPA-10-26321	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.35	—	—	3.30E-02	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.341	—	—	3.30E-02	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.202	—	—	3.30E-02	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.362	—	—	3.30E-02	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.357	—	—	3.30E-02	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	63.8	—	—	4.50E-01	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	65.4	—	—	4.50E-01	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	61.3	—	—	4.50E-01	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	61.1	—	—	4.50E-01	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	59.1	—	—	3.50E-01	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	61.1	—	—	4.50E-01	mg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	65.3	—	—	4.50E-01	mg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	62.2	—	—	4.50E-01	mg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	61.7	—	—	4.50E-01	mg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	59.6	—	—	3.50E-01	mg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.33	—	—	1.10E-01	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.47	—	—	1.10E-01	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.21	—	—	1.10E-01	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.26	—	—	1.10E-01	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.04	—	—	8.50E-02	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.14	—	—	1.10E-01	mg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.49	—	—	1.10E-01	mg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.28	—	—	1.10E-01	mg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.36	—	—	1.10E-01	mg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.09	—	—	8.50E-02	mg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.755	—	—	5.00E-02	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.775	—	—	5.00E-02	mg/L	—	J-	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.627	—	—	1.00E-02	mg/L	—	J-	11-2230	CAPA-11-9503	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.675	—	—	5.00E-02	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.76	—	—	5.00E-02	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.449	—	—	5.00E-02	µg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.473	—	—	5.00E-02	µg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.462	—	—	5.00E-02	µg/L	—	J+	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.456	—	—	5.00E-02	µg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.458	—	—	5.00E-02	µg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.64	—	—	5.00E-02	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.68	—	—	5.00E-02	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.65	—	—	5.00E-02	mg/L	—	J	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.8	—	—	5.00E-02	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.62	—	—	5.00E-02	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.59	—	—	5.00E-02	mg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.71	—	—	5.00E-02	mg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.68	—	—	5.00E-02	mg/L	—	J	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.79	—	—	5.00E-02	mg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.64	—	—	5.00E-02	mg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.8	—	—	1.00E-01	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.8	—	—	1.00E-01	mg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12	—	—	1.00E-01	mg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	178	—	—	1.00E+00	µS/cm	—	—	12-210	CAPA-12-1200	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	171	—	—	1.00E+00	µS/cm	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.8	—	—	1.00E-01	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.62	—	—	1.00E-01	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	12.4	—	—	1.00E-01	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.02	—	—	1.00E-01	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	5.04	—	—	1.00E-01	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	154	—	—	3.40E+00	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	146	—	—	3.40E+00	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	157	—	—	2.40E+00	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	159	—	—	2.40E+00	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	163	—	—	2.40E+00	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.592	—	—	3.30E-01	mg/L	J	J	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.533	—	—	3.30E-01	mg/L	J	J	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.876	—	—	3.30E-01	mg/L	J	J	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.11	—	—	3.30E-01	mg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.0297	—	—	1.50E-02	mg/L	J	J	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.14	—	—	1.50E-02	mg/L	—	U	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.0489	—	—	1.50E-02	mg/L	J	U	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.064	—	—	1.50E-02	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.038	—	—	1.50E-02	mg/L	J	U	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.18	—	—	1.00E-02	SU	H	J-	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.31	—	—	1.00E-02	SU	H	J-	11-2851	CAPA-11-23021	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	36.4	—	—	1.00E+00	µg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	36.5	—	—	1.00E+00	µg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	35.1	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	34.7	—	—	1.00E+00	µg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	36.1	—	—	1.00E+00	µg/L	—	J	10-4498	CAPA-10-26321	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	34.8	—	—	1.00E+00	µg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	35.9	—	—	1.00E+00	µg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	36.3	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	35.5	—	—	1.00E+00	µg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	36.9	—	—	1.00E+00	µg/L	—	J	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	18.4	—	—	1.50E+01	µg/L	J	J	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	18.7	—	—	1.50E+01	µg/L	J	J	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	19.5	—	—	1.50E+01	µg/L	J	J	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	18.5	—	—	1.50E+01	µg/L	J	J	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	21.1	—	—	1.50E+01	µg/L	J	J	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	18	—	—	1.50E+01	µg/L	J	J	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	19.4	—	—	1.50E+01	µg/L	J	J	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	20.2	—	—	1.50E+01	µg/L	J	J	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	18.5	—	—	1.50E+01	µg/L	J	J	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	20.9	—	—	1.50E+01	µg/L	J	J	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	7	—	—	2.00E+00	µg/L	J	J	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.42	—	—	2.00E+00	µg/L	J	J	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.76	—	—	2.00E+00	µg/L	J	J	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.50E+00	µg/L	U	U	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	6.8	—	—	2.00E+00	µg/L	J	J	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.27	—	—	2.00E+00	µg/L	J	J	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.88	—	—	2.00E+00	µg/L	J	J	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.21	—	—	2.50E+00	µg/L	J	J	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.22	—	—	1.70E-01	µg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	0.955	—	—	1.70E-01	µg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.07	—	—	1.70E-01	µg/L	—	—	11-2230	CAPA-11-9503	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	<	1.15	—	—	1.70E-01	µg/L	—	U	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.15	—	—	1.00E-01	µg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.19	—	—	1.70E-01	µg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	0.975	—	—	1.70E-01	µg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.04	—	—	1.70E-01	µg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	<	1.12	—	—	1.70E-01	µg/L	—	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.23	—	—	1.00E-01	µg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	1.37	—	—	5.00E-01	µg/L	J	J	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.723	—	—	5.00E-01	µg/L	J	J	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.934	—	—	5.00E-01	µg/L	J	J	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.971	—	—	5.00E-01	µg/L	J	J	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	2.94	—	—	5.00E-01	µg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.33	—	—	5.00E-01	µg/L	J	J	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.819	—	—	5.00E-01	µg/L	J	J	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.958	—	—	5.00E-01	µg/L	J	J	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.957	—	—	5.00E-01	µg/L	J	J	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	2	—	—	5.00E-01	µg/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.6	—	—	5.30E-02	mg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	74.3	—	—	5.30E-02	mg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.9	—	—	5.30E-02	mg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.8	—	—	5.30E-02	mg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	73.5	—	—	5.30E-02	mg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	74.5	—	—	1.00E+00	µg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	76.9	—	—	1.00E+00	µg/L	—	J	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	72.5	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	73.4	—	—	1.00E+00	µg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	73	—	—	1.00E+00	µg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	71.4	—	—	1.00E+00	µg/L	—	—	12-210	CAPA-12-1201	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	78.4	—	—	1.00E+00	µg/L	—	J	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	73.5	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	74.8	—	—	1.00E+00	µg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	72.6	—	—	1.00E+00	µg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.752	—	—	6.70E-02	µg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.649	—	—	6.70E-02	µg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.645	—	—	6.70E-02	µg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.639	—	—	6.70E-02	µg/L	—	—	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.623	—	—	5.00E-02	µg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.785	—	—	6.70E-02	µg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.632	—	—	6.70E-02	µg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.665	—	—	6.70E-02	µg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.644	—	—	6.70E-02	µg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.673	—	—	5.00E-02	µg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.3	—	—	1.00E+00	µg/L	—	—	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.6	—	—	1.00E+00	µg/L	—	—	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.17	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.89	—	—	1.00E+00	µg/L	J	J	11-1295	CAPA-11-4719	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.65	—	—	1.00E+00	µg/L	—	—	10-4498	CAPA-10-26321	GELC
R-55	860	10/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.18	—	—	1.00E+00	µg/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.28	—	—	1.00E+00	µg/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.26	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.16	—	—	1.00E+00	µg/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.79	—	—	1.00E+00	µg/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	3.9	—	—	3.30E+00	µg/L	J	J	12-210	CAPA-12-1200	GELC
R-55	860	07/15/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2851	CAPA-11-23021	GELC
R-55	860	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2230	CAPA-11-9503	GELC
R-55	860	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-1295	CAPA-11-4719	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	09/09/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	4.05	—	—	3.30E+00	µg/L	J	J	10-4498	CAPA-10-26321	GELC
R-55	860	07/15/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	3.73	—	—	3.30E+00	µg/L	J	J	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	5.27	—	—	3.30E+00	µg/L	J	J	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00484	2.33E-03	5.20E-02	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	7.08	3.33E+00	3.60E+01	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0162	3.67E-03	3.10E-02	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00254	1.90E-03	5.20E-02	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00635	9.67E-04	2.50E-02	—	pCi/L	U	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.0033	1.07E-03	3.30E-02	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.03	5.33E-01	5.60E+00	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.398	4.67E-01	4.70E+00	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.62	4.33E-01	3.70E+00	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.321	4.33E-01	4.10E+00	—	pCi/L	U	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-3.44	4.67E-01	3.70E+00	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.68	5.67E-01	6.00E+00	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.02	4.00E-01	4.30E+00	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.182	3.33E-01	3.20E+00	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.42	5.00E-01	4.40E+00	—	pCi/L	U	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.35	4.33E-01	4.80E+00	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.86	2.80E-01	2.10E+00	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.59	2.10E-01	2.50E+00	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.233	2.27E-01	2.90E+00	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.343	1.73E-01	2.20E+00	—	pCi/L	U	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.697	1.83E-01	1.90E+00	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.63	2.27E-01	2.40E+00	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.26	2.77E-01	2.50E+00	—	pCi/L	U	U	11-2851	CAPA-11-23022	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.22	3.10E-01	2.80E+00	—	pCi/L	—	—	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.67	2.60E-01	2.30E+00	—	pCi/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.72	2.70E-01	2.50E+00	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	5.15	1.03E+00	1.20E+01	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	5.02	8.67E-01	8.90E+00	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.69	8.33E-01	7.90E+00	—	pCi/L	U	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	4.27	8.33E-01	8.80E+00	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00118	1.57E-03	5.10E-02	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00205	9.67E-04	3.10E-02	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	6.33E-04	3.00E-02	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00357	1.20E-03	2.00E-02	—	pCi/L	U	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0022	1.03E-03	2.40E-02	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00418	2.00E-03	4.90E-02	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00615	2.27E-03	4.20E-02	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0227	2.40E-03	4.80E-02	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-8.5E-10	1.47E-03	3.20E-02	—	pCi/L	U	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00879	1.80E-03	3.60E-02	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-16.9	8.00E+00	8.90E+01	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-28	6.33E+00	6.30E+01	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	12.6	5.00E+00	5.60E+01	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	46.8	5.67E+00	4.30E+01	—	pCi/L	UI	R	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-4.42	6.33E+00	6.90E+01	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.211	3.67E-02	3.40E-01	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.47	7.33E-02	6.90E-01	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.05	6.00E-01	7.40E+00	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.105	5.00E-01	5.20E+00	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.258	5.33E-01	5.10E+00	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.78	4.33E-01	4.80E+00	—	pCi/L	U	U	11-1295	CAPA-11-4718	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.856	4.33E-01	3.90E+00	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0691	4.00E-02	4.80E-01	—	pCi/L	U	U	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.256	3.67E-02	4.90E-01	—	pCi/L	U	U	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.301	5.00E-02	4.90E-01	—	pCi/L	U	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0936	4.00E-02	4.70E-01	—	pCi/L	U	U	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.371	5.33E-02	4.80E-01	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.52	2.23E-01	2.22E+00	—	pCi/L	U	U	12-244	CAPA-12-1201	ARSL
R-55	860	07/15/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.41509	2.24E-01	2.27E+00	—	pCi/L	U	U	11-2878	CAPA-11-23022	ARSL
R-55	860	04/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.08562	2.55E-01	2.68E+00	—	pCi/L	U	U	11-2264	CAPA-11-9505	ARSL
R-55	860	02/07/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.20317	1.92E-01	1.76E+00	—	pCi/L	U	R	11-1308	CAPA-11-4718	ARSL
R-55	860	02/07/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.25544	1.60E-01	1.66E+00	—	pCi/L	U	U	11-1308	CAPA-11-4718	ARSL
R-55	860	09/09/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	4.24669	3.83E-01	3.03E+00	—	pCi/L	—	R	10-4603	CAPA-10-26320	ARSL
R-55	860	09/09/10	WG	UF	RE	—	Rad	LLEE	Tritium	—	7.12039	4.90E-01	3.03E+00	—	pCi/L	—	—	10-4603	CAPA-10-26320	ARSL
R-55	860	10/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.514	1.83E-02	5.20E-02	—	pCi/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.436	1.37E-02	3.70E-02	—	pCi/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	<	0.466	1.37E-01	7.30E-02	—	pCi/L	—	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.441	1.37E-02	3.40E-02	—	pCi/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.485	1.60E-02	6.40E-02	—	pCi/L	—	—	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0382	4.00E-03	3.80E-02	—	pCi/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0291	3.03E-03	2.00E-02	—	pCi/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.3	8.67E-02	5.60E-02	—	pCi/L	—	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.036	3.03E-03	2.50E-02	—	pCi/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00589	1.97E-03	3.20E-02	—	pCi/L	U	U	10-4498	CAPA-10-26320	GELC
R-55	860	10/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.213	1.00E-02	6.00E-02	—	pCi/L	—	—	12-210	CAPA-12-1201	GELC
R-55	860	07/15/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.173	7.67E-03	2.20E-02	—	pCi/L	—	—	11-2851	CAPA-11-23022	GELC
R-55	860	04/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	<	0.243	7.00E-02	3.80E-02	—	pCi/L	—	U	11-2230	CAPA-11-9505	GELC
R-55	860	02/07/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.213	8.00E-03	2.50E-02	—	pCi/L	—	—	11-1295	CAPA-11-4718	GELC
R-55	860	09/09/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.176	8.00E-03	2.80E-02	—	pCi/L	—	—	10-4498	CAPA-10-26320	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3	—	8.29	—	—	7.30E-01	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3	<	1	—	—	7.30E-01	mg/L	U	U	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3	<	1	—	—	7.30E-01	mg/L	U	U	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3	—	2.13	—	—	7.30E-01	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3	<	1	—	—	7.30E-01	mg/L	U	U	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	75.7	—	—	7.30E-01	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	73.5	—	—	7.30E-01	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	74.5	—	—	7.30E-01	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	76.7	—	—	7.30E-01	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	68.7	—	—	7.30E-01	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	19	—	—	5.00E-02	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.7	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	18	—	—	5.00E-02	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.9	—	—	5.00E-02	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.2	—	—	5.00E-02	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	18.9	—	—	5.00E-02	mg/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.7	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17.6	—	—	5.00E-02	mg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	18.2	—	—	5.00E-02	mg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	17	—	—	5.00E-02	mg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.8	—	—	6.60E-02	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.75	—	—	6.60E-02	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.69	—	—	6.60E-02	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.62	—	—	6.60E-02	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	3.55	—	—	6.60E-02	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.359	—	—	3.30E-02	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.338	—	—	3.30E-02	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.316	—	—	3.30E-02	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.373	—	—	3.30E-02	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.342	—	—	3.30E-02	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	66.7	—	—	4.50E-01	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	61.5	—	—	4.50E-01	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	63.3	—	—	4.50E-01	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	62.7	—	—	4.50E-01	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	60	—	—	3.50E-01	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	66.6	—	—	4.50E-01	mg/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	61.2	—	—	4.50E-01	mg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	61.8	—	—	4.50E-01	mg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	64	—	—	4.50E-01	mg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	59.7	—	—	3.50E-01	mg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.7	—	—	1.10E-01	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.18	—	—	1.10E-01	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.44	—	—	1.10E-01	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.39	—	—	1.10E-01	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.17	—	—	8.50E-02	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.69	—	—	1.10E-01	mg/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.16	—	—	1.10E-01	mg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.34	—	—	1.10E-01	mg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.47	—	—	1.10E-01	mg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.16	—	—	8.50E-02	mg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.725	—	—	5.00E-02	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.775	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.495	—	—	1.00E-02	mg/L	—	J-	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.56	—	—	5.00E-02	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.7	—	—	5.00E-02	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.437	—	—	5.00E-02	µg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.461	—	—	5.00E-02	µg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.418	—	—	5.00E-02	µg/L	—	J+	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.426	—	—	5.00E-02	µg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.436	—	—	5.00E-02	µg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.81	—	—	5.00E-02	mg/L	—	J	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.51	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.82	—	—	5.00E-02	mg/L	—	J	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.84	—	—	5.00E-02	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.78	—	—	5.00E-02	mg/L	—	J	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.51	—	—	5.00E-02	mg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.8	—	—	5.00E-02	mg/L	—	J	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.94	—	—	5.00E-02	mg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.78	—	—	5.00E-02	mg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.6	—	—	1.00E-01	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.1	—	—	1.00E-01	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.7	—	—	1.00E-01	mg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12	—	—	1.00E-01	mg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	173	—	—	1.00E+00	µS/cm	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	170	—	—	1.00E+00	µS/cm	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	174	—	—	1.00E+00	µS/cm	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.45	—	—	1.00E-01	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.67	—	—	1.00E-01	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.39	—	—	1.00E-01	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.8	—	—	1.00E-01	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	4.31	—	—	1.00E-01	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	150	—	—	3.40E+00	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	146	—	—	3.40E+00	mg/L	—	J	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	148	—	—	2.40E+00	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	151	—	—	2.40E+00	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	154	—	—	2.40E+00	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.501	—	—	3.30E-01	mg/L	J	J	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.464	—	—	3.30E-01	mg/L	J	J	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	0.914	—	—	3.30E-01	mg/L	J	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.5	—	—	1.00E-02	SU	H	J-	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.1	—	—	1.00E-02	SU	H	J-	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.18	—	—	1.00E-02	SU	H	J-	11-2230	CAPA-11-9507	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	—	1260	—	—	6.80E+01	µg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	10-4567	CAPA-10-26323	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Metals	SW-846:6010B	Aluminum	<	200	—	—	6.80E+01	µg/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	36	—	—	1.00E+00	µg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	35.1	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-23026	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	32.1	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	28.8	—	—	1.00E+00	µg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	31.2	—	—	1.00E+00	µg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	36	—	—	1.00E+00	µg/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	34.9	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	32	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	29.3	—	—	1.00E+00	µg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	31.2	—	—	1.00E+00	µg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	16.9	—	—	1.50E+01	µg/L	J	J	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	21.4	—	—	1.50E+01	µg/L	J	J	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	20.8	—	—	1.50E+01	µg/L	J	J	11-1272	CAPA-11-4729	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	15.6	—	—	1.50E+01	µg/L	J	J	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	16.3	—	—	1.50E+01	µg/L	J	J	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	21.3	—	—	1.50E+01	µg/L	J	J	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	23.1	—	—	1.50E+01	µg/L	J	J	11-1272	CAPA-11-4726	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	5.26	—	—	2.00E+00	µg/L	J	J	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.03	—	—	2.00E+00	µg/L	J	J	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	6.47	—	—	2.50E+00	µg/L	B	J	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	5.4	—	—	2.00E+00	µg/L	J	J	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.43	—	—	2.00E+00	µg/L	J	J	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	6.43	—	—	2.50E+00	µg/L	B	J	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.35	—	—	1.70E-01	µg/L	—	J	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.02	—	—	1.70E-01	µg/L	—	—	11-2835	CAPA-11-23026	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.31	—	—	1.70E-01	µg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.4	—	—	1.70E-01	µg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.76	—	—	1.00E-01	µg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.38	—	—	1.70E-01	µg/L	—	J	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.03	—	—	1.70E-01	µg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.31	—	—	1.70E-01	µg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.45	—	—	1.70E-01	µg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.8	—	—	1.00E-01	µg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.3	—	—	5.30E-02	mg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.7	—	—	5.30E-02	mg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	65.5	—	—	5.30E-02	mg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	66.5	—	—	5.30E-02	mg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.8	—	—	5.30E-02	mg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	96.2	—	—	1.00E+00	µg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	73.6	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	86.6	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	81.1	—	—	1.00E+00	µg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	73	—	—	1.00E+00	µg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	95	—	—	1.00E+00	µg/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	73.3	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	84.5	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	82.5	—	—	1.00E+00	µg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	72.8	—	—	1.00E+00	µg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.555	—	—	6.70E-02	µg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.578	—	—	6.70E-02	µg/L	—	—	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.683	—	—	6.70E-02	µg/L	—	—	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.6	—	—	6.70E-02	µg/L	—	—	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.609	—	—	5.00E-02	µg/L	—	—	10-4567	CAPA-10-26323	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.548	—	—	6.70E-02	µg/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.601	—	—	6.70E-02	µg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.682	—	—	6.70E-02	µg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.636	—	—	6.70E-02	µg/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.594	—	—	5.00E-02	µg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.48	—	—	1.00E+00	µg/L	—	—	12-225	CAPA-12-1205	GELC
R-55	994.4	07/14/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.92	—	—	1.00E+00	µg/L	J	J	11-2835	CAPA-11-23026	GELC
R-55	994.4	04/28/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.97	—	—	1.00E+00	µg/L	J	J	11-2230	CAPA-11-9507	GELC
R-55	994.4	02/01/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.32	—	—	1.00E+00	µg/L	J	J	11-1272	CAPA-11-4729	GELC
R-55	994.4	09/14/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.54	—	—	1.00E+00	µg/L	—	—	10-4567	CAPA-10-26323	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.12	—	—	1.00E+00	µg/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.02	—	—	1.00E+00	µg/L	—	—	11-2835	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.21	—	—	1.00E+00	µg/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.89	—	—	1.00E+00	µg/L	J	J	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.56	—	—	1.00E+00	µg/L	—	—	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00826	3.30E-03	4.30E-02	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00977	3.13E-03	1.40E-02	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-0.337	1.07E+00	8.90E+00	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00558	2.07E-03	3.80E-02	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00367	4.00E-03	3.20E-02	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00467	1.67E-03	4.10E-02	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.137	4.67E-01	4.50E+00	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.48	5.67E-01	5.90E+00	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.74	5.00E-01	5.60E+00	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	2.9	4.67E-01	3.60E+00	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-3.37	6.67E-01	6.10E+00	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.157	4.67E-01	5.30E+00	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.36	5.33E-01	6.10E+00	—	pCi/L	U	U	11-2836	CAPA-11-23024	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.705	5.00E-01	4.60E+00	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-2.65	5.33E-01	4.30E+00	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.55	5.67E-01	6.00E+00	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.1	2.30E-01	2.10E+00	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.55	3.07E-01	1.90E+00	—	pCi/L	—	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.0946	2.20E-01	2.80E+00	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.09	2.97E-01	2.30E+00	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.634	1.93E-01	2.10E+00	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.62	2.43E-01	2.20E+00	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.94	3.00E-01	2.40E+00	—	pCi/L	—	—	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.773	2.97E-01	3.00E+00	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	5.65	3.67E-01	2.10E+00	—	pCi/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.69	3.03E-01	2.90E+00	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.32	8.00E-01	8.30E+00	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.219	1.13E+00	1.10E+01	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.977	8.33E-01	8.40E+00	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	3.3	1.03E+00	1.10E+01	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0131	4.67E-03	3.70E-02	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00424	1.23E-03	3.60E-02	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00557	1.87E-03	2.90E-02	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00222	1.27E-03	2.50E-02	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00478	1.37E-03	2.60E-02	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	2.67E-03	5.20E-02	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00636	1.87E-03	5.20E-02	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00185	2.23E-03	4.70E-02	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00443	1.80E-03	4.00E-02	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00239	1.37E-03	3.90E-02	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	19.3	5.33E+00	3.70E+01	—	pCi/L	U	U	12-225	CAPA-12-1204	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	10.6	8.00E+00	7.80E+01	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-10.3	7.33E+00	7.30E+01	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	6.23	7.33E+00	7.10E+01	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	9.15	5.00E+00	5.60E+01	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.528	6.67E-02	4.60E-01	—	pCi/L	—	U	12-225	CAPA-12-1204	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.269	4.33E-02	4.00E-01	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.98	4.33E-01	5.40E+00	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.746	7.67E-01	7.30E+00	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.313	5.33E-01	5.50E+00	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.484	4.67E-01	4.60E+00	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.71	5.67E-01	6.10E+00	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.324	5.00E-02	4.90E-01	—	pCi/L	U	U	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0411	4.33E-02	4.90E-01	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.215	5.00E-02	5.00E-01	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.147	4.67E-02	4.70E-01	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.148	4.67E-02	4.80E-01	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.74	2.20E-01	2.17E+00	—	pCi/L	U	U	12-244	CAPA-12-1204	ARSL
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.54281	2.13E-01	2.14E+00	—	pCi/L	U	U	11-2878	CAPA-11-23024	ARSL
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.86211	2.24E-01	2.27E+00	—	pCi/L	U	U	11-2264	CAPA-11-9508	ARSL
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.01159	1.81E-01	1.60E+00	—	pCi/L	U	R	11-1270	CAPA-11-4726	ARSL
R-55	994.4	02/01/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.79825	1.60E-01	1.60E+00	—	pCi/L	U	U	11-1270	CAPA-11-4726	ARSL
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.09721	2.77E-01	2.20E+00	—	pCi/L	—	R	10-4603	CAPA-10-26324	ARSL
R-55	994.4	09/14/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.79825	2.24E-01	2.20E+00	—	pCi/L	U	U	10-4603	CAPA-10-26324	ARSL
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.432	1.33E-02	4.20E-02	—	pCi/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.47	1.73E-02	7.40E-02	—	pCi/L	—	—	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.372	1.57E-02	9.40E-02	—	pCi/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.445	1.43E-02	3.80E-02	—	pCi/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.35	1.20E-02	5.30E-02	—	pCi/L	—	—	10-4567	CAPA-10-26324	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0345	2.90E-03	2.20E-02	—	pCi/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0124	2.40E-03	4.00E-02	—	pCi/L	U	U	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00895	3.00E-03	7.20E-02	—	pCi/L	U	U	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0237	3.00E-03	2.80E-02	—	pCi/L	U	U	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00979	2.00E-03	2.70E-02	—	pCi/L	U	U	10-4567	CAPA-10-26324	GELC
R-55	994.4	10/31/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.182	7.33E-03	1.80E-02	—	pCi/L	—	—	12-225	CAPA-12-1204	GELC
R-55	994.4	07/14/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.167	9.00E-03	4.40E-02	—	pCi/L	—	—	11-2836	CAPA-11-23024	GELC
R-55	994.4	04/28/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.188	1.03E-02	4.90E-02	—	pCi/L	—	—	11-2230	CAPA-11-9508	GELC
R-55	994.4	02/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.239	9.00E-03	2.80E-02	—	pCi/L	—	—	11-1272	CAPA-11-4726	GELC
R-55	994.4	09/14/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.2	8.33E-03	2.30E-02	—	pCi/L	—	—	10-4567	CAPA-10-26324	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	86	—	—	7.30E-01	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	81.4	—	—	7.30E-01	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	104	—	—	7.30E-01	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	91.9	—	—	7.30E-01	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	89.5	—	—	7.30E-01	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0287	—	—	1.60E-02	mg/L	J	J	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0354	—	—	1.60E-02	mg/L	J	J	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0438	—	—	1.60E-02	mg/L	J	J	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.033	—	—	1.60E-02	mg/L	J	U	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:300.0	Bromide	—	0.242	—	—	6.60E-02	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.266	—	—	6.60E-02	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.231	—	—	6.60E-02	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.245	—	—	6.60E-02	mg/L	—	J+	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	EPA:300.0	Bromide	—	0.244	—	—	6.60E-02	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Calcium	—	34	—	—	5.00E-02	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	34.4	—	—	5.00E-02	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	37.3	—	—	5.00E-02	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	35.6	—	—	5.00E-02	mg/L	—	—	11-2376	CAPA-11-10607	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	35.3	—	—	5.00E-02	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Calcium	—	34.5	—	—	5.00E-02	mg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	35.4	—	—	5.00E-02	mg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	38.1	—	—	5.00E-02	mg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	35.8	—	—	5.00E-02	mg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	34.2	—	—	5.00E-02	mg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:300.0	Chloride	—	16.5	—	—	6.60E-02	mg/L	—	J-	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	16.6	—	—	6.60E-02	mg/L	—	J-	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	16.7	—	—	6.60E-02	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	17.2	—	—	6.60E-02	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	16.6	—	—	6.60E-02	mg/L	—	J+	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:300.0	Fluoride	—	0.244	—	—	3.30E-02	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.236	—	—	3.30E-02	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.239	—	—	3.30E-02	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.279	—	—	3.30E-02	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.219	—	—	3.30E-02	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	SM:A2340B	Hardness	—	121	—	—	4.50E-01	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	123	—	—	4.50E-01	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	131	—	—	4.50E-01	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	126	—	—	4.50E-01	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	126	—	—	4.50E-01	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Geninorg	SM:A2340B	Hardness	—	123	—	—	4.50E-01	mg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	126	—	—	4.50E-01	mg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	134	—	—	4.50E-01	mg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	127	—	—	4.50E-01	mg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	122	—	—	4.50E-01	mg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	8.78	—	—	1.10E-01	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.92	—	—	1.10E-01	mg/L	—	—	12-242	CAPA-12-1226	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.23	—	—	1.10E-01	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.08	—	—	1.10E-01	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.17	—	—	1.10E-01	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	8.9	—	—	1.10E-01	mg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.11	—	—	1.10E-01	mg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.51	—	—	1.10E-01	mg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	9.09	—	—	1.10E-01	mg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	8.81	—	—	1.10E-01	mg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	4.16	—	—	5.00E-02	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	4.14	—	—	5.00E-02	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	3.09	—	—	5.00E-02	mg/L	—	J-	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	3.83	—	—	1.00E-01	mg/L	—	J-	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	3.88	—	—	5.00E-02	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	SW-846:6850	Perchlorate	—	1.08	—	—	1.00E-01	µg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	1.21	—	—	1.00E-01	µg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.892	—	—	5.00E-02	µg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.88	—	—	1.00E-01	µg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.987	—	—	1.00E-01	µg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Potassium	—	2.25	—	—	5.00E-02	mg/L	—	J	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.31	—	—	5.00E-02	mg/L	—	J	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.24	—	—	5.00E-02	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.34	—	—	5.00E-02	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.3	—	—	5.00E-02	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Potassium	—	2.27	—	—	5.00E-02	mg/L	—	J	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.34	—	—	5.00E-02	mg/L	—	J	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.29	—	—	5.00E-02	mg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.4	—	—	5.00E-02	mg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	2.24	—	—	5.00E-02	mg/L	—	—	11-1747	CAPA-11-4734	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Sodium	—	12.8	—	—	1.00E-01	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.9	—	—	1.00E-01	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.1	—	—	1.00E-01	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.2	—	—	1.00E-01	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.1	—	—	1.00E-01	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Sodium	—	13	—	—	1.00E-01	mg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.3	—	—	1.00E-01	mg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.4	—	—	1.00E-01	mg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	13.2	—	—	1.00E-01	mg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.6	—	—	1.00E-01	mg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:120.1	Specific Conductance	—	309	—	—	1.00E+00	µS/cm	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	310	—	—	1.00E+00	µS/cm	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	320	—	—	1.00E+00	µS/cm	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	302	—	—	1.00E+00	µS/cm	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:300.0	Sulfate	—	20.9	—	—	1.00E-01	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	20.8	—	—	1.00E-01	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	17	—	—	1.00E-01	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	20.3	—	—	1.00E-01	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	21.1	—	—	1.00E-01	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:160.1	Total Dissolved Solids	—	203	—	—	3.40E+00	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	203	—	—	3.40E+00	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	200	—	—	4.80E+00	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	218	—	—	2.40E+00	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	218	—	—	2.40E+00	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Geninorg	SW-846:9060	Total Organic Carbon	—	1.14	—	—	3.30E-01	mg/L	—	—	12-241	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.13	—	—	3.30E-01	mg/L	—	—	12-241	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	3.8	—	—	3.30E-01	mg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.38	—	—	3.30E-01	mg/L	—	—	11-2376	CAPA-11-10606	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	2.64	—	—	3.30E-01	mg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Geninorg	EPA:150.1	pH	—	7.55	—	—	1.00E-02	SU	H	J-	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.7	—	—	1.00E-02	SU	H	J-	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.48	—	—	1.00E-02	SU	H	J-	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.78	—	—	1.00E-02	SU	H	J-	11-2376	CAPA-11-10607	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6010B	Barium	—	46.2	—	—	1.00E+00	µg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	46.2	—	—	1.00E+00	µg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	59.3	—	—	1.00E+00	µg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	51	—	—	1.00E+00	µg/L	—	J	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	37.5	—	—	1.00E+00	µg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6010B	Barium	—	47	—	—	1.00E+00	µg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	48.6	—	—	1.00E+00	µg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	62.8	—	—	1.00E+00	µg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	52.9	—	—	1.00E+00	µg/L	—	J	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	38.6	—	—	1.00E+00	µg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6020	Chromium	—	3.02	—	—	2.00E+00	µg/L	J	J	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.05	—	—	2.00E+00	µg/L	J	J	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.81	—	—	2.00E+00	µg/L	J	J	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6020	Chromium	—	4.92	—	—	2.00E+00	µg/L	J	J	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.57	—	—	2.00E+00	µg/L	J	J	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	5.32	—	—	2.00E+00	µg/L	J	J	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6010B	Iron	—	472	—	—	3.00E+01	µg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	470	—	—	3.00E+01	µg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	1320	—	—	3.00E+01	µg/L	—	—	11-2863	CAPA-11-22979	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	431	—	—	3.00E+01	µg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	82.3	—	—	3.00E+01	µg/L	J	J	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6010B	Iron	—	491	—	—	3.00E+01	µg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	525	—	—	3.00E+01	µg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	1470	—	—	3.00E+01	µg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	675	—	—	3.00E+01	µg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	168	—	—	3.00E+01	µg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6010B	Manganese	—	370	—	—	2.00E+00	µg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	374	—	—	2.00E+00	µg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	780	—	—	2.00E+00	µg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	621	—	—	2.00E+00	µg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	435	—	—	2.00E+00	µg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6010B	Manganese	—	369	—	—	2.00E+00	µg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	384	—	—	2.00E+00	µg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	784	—	—	2.00E+00	µg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	644	—	—	2.00E+00	µg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	406	—	—	2.00E+00	µg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6020	Molybdenum	—	8.09	—	—	1.70E-01	µg/L	—	J	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	8.15	—	—	1.70E-01	µg/L	—	J	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	9.63	—	—	1.70E-01	µg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	9.5	—	—	1.70E-01	µg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	7.76	—	—	1.70E-01	µg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6020	Molybdenum	—	8.51	—	—	1.70E-01	µg/L	—	J	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	8.09	—	—	1.70E-01	µg/L	—	J	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	9.86	—	—	1.70E-01	µg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	9.41	—	—	1.70E-01	µg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	7.39	—	—	1.70E-01	µg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	3.4	—	—	5.00E-01	µg/L	—	J	12-242	CAPA-12-1226	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	3.45	—	—	5.00E-01	µg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	3.9	—	—	5.00E-01	µg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	3.86	—	—	5.00E-01	µg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6020	Nickel	—	4.03	—	—	5.00E-01	µg/L	—	J	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	3.3	—	—	5.00E-01	µg/L	—	J	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	3.68	—	—	5.00E-01	µg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	4.04	—	—	5.00E-01	µg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	3.85	—	—	5.00E-01	µg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6020	Selenium	—	3.58	—	—	1.50E+00	µg/L	J	J	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	3.23	—	—	1.50E+00	µg/L	J	J	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	2.55	—	—	1.50E+00	µg/L	J	J	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Selenium	<	2.75	—	—	1.50E+00	µg/L	J	U	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6020	Selenium	—	2.91	—	—	1.50E+00	µg/L	J	J	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6020	Selenium	—	3.5	—	—	1.50E+00	µg/L	J	J	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	3.27	—	—	1.50E+00	µg/L	J	J	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	2.65	—	—	1.50E+00	µg/L	J	J	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Selenium	<	2.92	—	—	1.50E+00	µg/L	J	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6020	Selenium	—	2.85	—	—	1.50E+00	µg/L	J	J	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6010B	Silicon Dioxide	—	45.6	—	—	5.30E-02	mg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	46.4	—	—	5.30E-02	mg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	47.2	—	—	5.30E-02	mg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	46.2	—	—	5.30E-02	mg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	44	—	—	5.30E-02	mg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6010B	Strontium	—	159	—	—	1.00E+00	µg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	161	—	—	1.00E+00	µg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	165	—	—	1.00E+00	µg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	166	—	—	1.00E+00	µg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	166	—	—	1.00E+00	µg/L	—	—	11-1747	CAPA-11-4735	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6010B	Strontium	—	162	—	—	1.00E+00	µg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	166	—	—	1.00E+00	µg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	167	—	—	1.00E+00	µg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	167	—	—	1.00E+00	µg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	160	—	—	1.00E+00	µg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6020	Uranium	—	0.809	—	—	6.70E-02	µg/L	—	—	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.829	—	—	6.70E-02	µg/L	—	—	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.965	—	—	6.70E-02	µg/L	—	—	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.23	—	—	6.70E-02	µg/L	—	—	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	1.12	—	—	6.70E-02	µg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6020	Uranium	—	0.832	—	—	6.70E-02	µg/L	—	—	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.835	—	—	6.70E-02	µg/L	—	—	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.99	—	—	6.70E-02	µg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.15	—	—	6.70E-02	µg/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	1.07	—	—	6.70E-02	µg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6010B	Vanadium	—	2.68	—	—	1.00E+00	µg/L	J	J	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	2.47	—	—	1.00E+00	µg/L	J	J	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	1.31	—	—	1.00E+00	µg/L	J	J	11-2863	CAPA-11-22979	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	2.47	—	—	1.00E+00	µg/L	J	U	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	2.91	—	—	1.00E+00	µg/L	J	J	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6010B	Vanadium	—	2.38	—	—	1.00E+00	µg/L	J	J	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	2.63	—	—	1.00E+00	µg/L	J	J	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	1.76	—	—	1.00E+00	µg/L	J	J	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	2.41	—	—	1.00E+00	µg/L	J	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.28	—	—	1.00E+00	µg/L	J	J	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	F	CS	FD	Metals	SW-846:6010B	Zinc	—	3.98	—	—	3.30E+00	µg/L	J	J	12-242	CAPA-12-1223	GELC
R-55i	510	11/01/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	4.1	—	—	3.30E+00	µg/L	J	J	12-242	CAPA-12-1226	GELC
R-55i	510	07/18/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	10.8	—	—	3.30E+00	µg/L	—	—	11-2863	CAPA-11-22979	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	8.1	—	—	3.30E+00	µg/L	J	U	11-2376	CAPA-11-10607	GELC
R-55i	510	03/23/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	10.4	—	—	3.30E+00	µg/L	—	—	11-1747	CAPA-11-4735	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Metals	SW-846:6010B	Zinc	—	5.99	—	—	3.30E+00	µg/L	J	J	12-242	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	5	—	—	3.30E+00	µg/L	J	J	12-242	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	18.8	—	—	3.30E+00	µg/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	14.4	—	—	3.30E+00	µg/L	—	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	21.9	—	—	3.30E+00	µg/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	HASL-300	Americium-241	<	0.00433	1.03E-03	3.40E-02	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00662	1.57E-03	5.10E-02	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	1.56	2.00E+00	1.70E+01	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00386	2.87E-03	2.80E-02	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	3.43	3.67E+00	3.80E+01	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	2.57E-10	1.43E-03	4.40E-02	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0135	1.80E-03	2.40E-02	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:901.1	Cesium-137	<	-0.603	4.67E-01	5.10E+00	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.0621	4.67E-01	5.30E+00	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-5.42	4.67E-01	3.40E+00	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-3.2	5.00E-01	3.70E+00	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.725	3.33E-01	3.50E+00	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:901.1	Cobalt-60	<	0.269	4.33E-01	5.30E+00	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.16	5.33E-01	6.50E+00	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.161	3.67E-01	3.60E+00	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-1.29	5.67E-01	5.10E+00	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.437	4.00E-01	3.80E+00	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:900	Gross alpha	<	2.22	2.97E-01	2.10E+00	—	pCi/L	—	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	—	4.06	4.00E-01	2.10E+00	—	pCi/L	—	—	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.877	2.23E-01	2.30E+00	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.78	2.80E-01	2.10E+00	—	pCi/L	U	U	11-2376	CAPA-11-10606	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.953	2.50E-01	2.60E+00	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:900	Gross beta	<	0.0173	2.00E-01	2.30E+00	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.66	2.60E-01	2.40E+00	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.66	2.43E-01	2.30E+00	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.44	2.97E-01	2.90E+00	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.23	2.80E-01	2.40E+00	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:901.1	Neptunium-237	<	-3.25	9.67E-01	9.60E+00	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.736	1.10E+00	1.20E+01	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-3.55	8.33E-01	7.10E+00	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	HASL-300	Plutonium-238	<	0.00546	3.67E-03	3.10E-02	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00715	2.87E-03	2.70E-02	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00535	2.87E-03	3.10E-02	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00271	1.57E-03	4.30E-02	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00389	1.13E-03	2.40E-02	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	HASL-300	Plutonium-239/240	<	0.0109	2.23E-03	4.30E-02	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00714	1.37E-03	3.70E-02	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00356	1.20E-03	4.40E-02	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0189	3.00E-03	6.90E-02	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00194	1.43E-03	3.60E-02	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:901.1	Potassium-40	<	-8.11	5.33E+00	6.10E+01	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-34.9	6.67E+00	7.10E+01	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	9.45	6.33E+00	3.80E+01	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	48.1	5.67E+00	7.10E+01	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-10.8	4.67E+00	4.30E+01	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.485	5.67E-02	3.60E-01	—	pCi/L	—	U	12-243	CAPA-12-1224	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	—	0.698	7.00E-02	5.10E-01	—	pCi/L	—	—	12-243	CAPA-12-1224	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:901.1	Sodium-22	<	-0.628	4.33E-01	4.70E+00	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.753	5.67E-01	6.80E+00	—	pCi/L	U	U	12-243	CAPA-12-1224	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.127	4.67E-01	4.50E+00	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.33	5.00E-01	5.50E+00	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.38	5.33E-01	5.50E+00	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:905.0	Strontium-90	<	-0.0791	4.33E-02	4.80E-01	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.219	4.33E-02	4.80E-01	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.317	5.00E-02	4.80E-01	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.249	4.00E-02	4.60E-01	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.224	5.00E-02	5.10E-01	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	0.15	2.23E-01	2.26E+00	—	pCi/L	U	U	12-244	CAPA-12-1225	ARSL
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	EPA:906.0	Tritium	<	-13.4	1.17E+01	1.30E+02	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	EPA:906.0	Tritium	<	-6.73	1.17E+01	1.30E+02	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.6	2.17E-01	2.14E+00	—	pCi/L	U	U	12-244	CAPA-12-1224	ARSL
R-55i	510	07/18/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.34106	2.98E-01	3.00E+00	—	pCi/L	U	U	11-2878	CAPA-11-22978	ARSL
R-55i	510	05/10/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.41509	2.13E-01	2.20E+00	—	pCi/L	U	U	11-2438	CAPA-11-10606	ARSL
R-55i	510	03/23/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.9158	2.45E-01	2.49E+00	—	pCi/L	U	R	11-1843	CAPA-11-4734	ARSL
R-55i	510	03/23/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.47895	2.45E-01	2.49E+00	—	pCi/L	U	U	11-1843	CAPA-11-4734	ARSL
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-234	—	0.592	1.73E-02	4.50E-02	—	pCi/L	—	—	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.509	1.63E-02	5.30E-02	—	pCi/L	—	—	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.665	2.17E-02	5.60E-02	—	pCi/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.661	2.20E-02	7.70E-02	—	pCi/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.672	2.17E-02	3.90E-02	—	pCi/L	—	—	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-235/236	<	0.0196	2.23E-03	2.30E-02	—	pCi/L	U	U	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0234	3.33E-03	2.80E-02	—	pCi/L	U	U	12-243	CAPA-12-1224	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.017	3.33E-03	3.50E-02	—	pCi/L	U	U	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0294	3.67E-03	5.90E-02	—	pCi/L	U	U	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0206	3.27E-03	3.20E-02	—	pCi/L	U	U	11-1747	CAPA-11-4734	GELC
R-55i	510	11/01/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-238	—	0.307	1.03E-02	2.00E-02	—	pCi/L	—	—	12-243	CAPA-12-1225	GELC
R-55i	510	11/01/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.278	1.03E-02	2.40E-02	—	pCi/L	—	—	12-243	CAPA-12-1224	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-55i	510	07/18/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.321	1.27E-02	4.40E-02	—	pCi/L	—	—	11-2863	CAPA-11-22978	GELC
R-55i	510	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.289	1.20E-02	4.00E-02	—	pCi/L	—	—	11-2376	CAPA-11-10606	GELC
R-55i	510	03/23/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.314	1.27E-02	4.30E-02	—	pCi/L	—	—	11-1747	CAPA-11-4734	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.8	—	—	7.30E-01	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.2	—	—	7.30E-01	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	64.7	—	—	7.30E-01	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	66	—	—	7.30E-01	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.1	—	—	7.30E-01	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	—	0.0207	—	—	1.60E-02	mg/L	J	J	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	U	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	EPA:350.1	Ammonia as Nitrogen	<	0.05	—	—	1.60E-02	mg/L	U	UJ	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.7	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.2	—	—	5.00E-02	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.1	—	—	5.00E-02	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.1	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	14.4	—	—	5.00E-02	mg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.9	—	—	5.00E-02	mg/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.4	—	—	5.00E-02	mg/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.6	—	—	5.00E-02	mg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.33	—	—	6.60E-02	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.35	—	—	6.60E-02	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.44	—	—	6.60E-02	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.38	—	—	6.60E-02	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.19	—	—	6.60E-02	mg/L	—	—	10-4233	CAPA-10-24869	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.311	—	—	3.30E-02	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.31	—	—	3.30E-02	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.357	—	—	3.30E-02	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.333	—	—	3.30E-02	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.28	—	—	3.30E-02	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	55.6	—	—	4.50E-01	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	53.1	—	—	4.50E-01	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	51.5	—	—	4.50E-01	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	49.9	—	—	4.50E-01	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.7	—	—	3.50E-01	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	53.7	—	—	4.50E-01	mg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	54.1	—	—	4.50E-01	mg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	42	—	—	4.50E-01	mg/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	50.9	—	—	4.50E-01	mg/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	47.8	—	—	3.50E-01	mg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.61	—	—	1.10E-01	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.28	—	—	1.10E-01	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.24	—	—	1.10E-01	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.18	—	—	1.10E-01	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.99	—	—	8.50E-02	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.45	—	—	1.10E-01	mg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.38	—	—	1.10E-01	mg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	2.96	—	—	1.10E-01	mg/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	4.24	—	—	1.10E-01	mg/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.98	—	—	8.50E-02	mg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.788	—	—	1.00E-02	mg/L	—	J-	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	<	0.812	—	—	1.00E-01	mg/L	—	U	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.926	—	—	1.00E-01	mg/L	—	J-	11-2392	CAPA-11-9511	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.57	—	—	5.00E-02	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.7	—	—	5.00E-02	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.312	—	—	5.00E-02	µg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.409	—	—	5.00E-02	µg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.284	—	—	5.00E-02	µg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.297	—	—	5.00E-02	µg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.347	—	—	5.00E-02	µg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.91	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.81	—	—	5.00E-02	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.64	—	—	5.00E-02	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.8	—	—	5.00E-02	mg/L	—	J	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.83	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.85	—	—	5.00E-02	mg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.07	—	—	5.00E-02	mg/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.81	—	—	5.00E-02	mg/L	—	J	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.77	—	—	5.00E-02	mg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.3	—	—	1.00E-01	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.4	—	—	1.00E-01	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.5	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	9.83	—	—	1.00E-01	mg/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.6	—	—	1.00E-01	mg/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	148	—	—	1.00E+00	µS/cm	—	—	12-265	CAPA-12-1206	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	151	—	—	1.00E+00	µS/cm	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	142	—	—	1.00E+00	µS/cm	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	149	—	—	1.00E+00	µS/cm	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.19	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.97	—	—	1.00E-01	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.23	—	—	1.00E-01	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.03	—	—	1.00E-01	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.7	—	—	1.00E-01	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	111	—	—	3.40E+00	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	123	—	—	3.40E+00	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	127	—	—	2.40E+00	mg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	144	—	—	2.40E+00	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	141	—	—	2.40E+00	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.534	—	—	3.30E-01	mg/L	J	J	12-264	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2899	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.337	—	—	3.30E-01	mg/L	J	J	11-2391	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.878	—	—	3.30E-01	mg/L	J	J	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	1.44	—	—	3.30E-01	mg/L	—	—	10-4232	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.0228	—	—	1.50E-02	mg/L	J	J	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.0334	—	—	1.50E-02	mg/L	J	U	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.0547	—	—	1.50E-02	mg/L	—	U	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	—	0.033	—	—	1.50E-02	mg/L	J	J	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Geninorg	EPA:365.4	Total Phosphate as Phosphorus	<	0.039	—	—	1.50E-02	mg/L	J	U	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.86	—	—	1.00E-02	SU	H	J-	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.13	—	—	1.00E-02	SU	H	J-	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.91	—	—	1.00E-02	SU	H	J-	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.82	—	—	1.00E-02	SU	H	J-	11-1282	CAPA-11-4723	GELC
R-56	945	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	33.4	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1206	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	32.9	—	—	1.00E+00	µg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	32.5	—	—	1.00E+00	µg/L	—	J	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	32.1	—	—	1.00E+00	µg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	30.9	—	—	1.00E+00	µg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	32.3	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	32.9	—	—	1.00E+00	µg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	17.4	—	—	1.00E+00	µg/L	—	J	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	33.6	—	—	1.00E+00	µg/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	31.5	—	—	1.00E+00	µg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.75	—	—	1.70E-01	µg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.76	—	—	1.70E-01	µg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.01	—	—	1.70E-01	µg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.96	—	—	1.70E-01	µg/L	—	J	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.86	—	—	1.00E-01	µg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.79	—	—	1.70E-01	µg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.78	—	—	1.70E-01	µg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.71	—	—	1.70E-01	µg/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.99	—	—	1.70E-01	µg/L	—	J	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.66	—	—	1.00E-01	µg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.96	—	—	5.00E-01	µg/L	J	J	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.799	—	—	5.00E-01	µg/L	J	J	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.828	—	—	5.00E-01	µg/L	J	J	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	<	1.91	—	—	5.00E-01	µg/L	J	U	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.606	—	—	5.00E-01	µg/L	J	J	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.01	—	—	5.00E-01	µg/L	J	J	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.861	—	—	5.00E-01	µg/L	J	J	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.01	—	—	5.00E-01	µg/L	J	J	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	<	1.91	—	—	5.00E-01	µg/L	J	U	11-1282	CAPA-11-4722	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	08/19/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.567	—	—	5.00E-01	µg/L	J	J	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	72	—	—	5.30E-02	mg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69	—	—	5.30E-02	mg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	<	66.8	—	—	5.30E-02	mg/L	—	U	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.8	—	—	5.30E-02	mg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	65.3	—	—	5.30E-02	mg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	62.5	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	61	—	—	1.00E+00	µg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	58	—	—	1.00E+00	µg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	57.9	—	—	1.00E+00	µg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	55.2	—	—	1.00E+00	µg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	60.7	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	61.7	—	—	1.00E+00	µg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	50.5	—	—	1.00E+00	µg/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	58.1	—	—	1.00E+00	µg/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	55.8	—	—	1.00E+00	µg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.645	—	—	6.70E-02	µg/L	—	—	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.592	—	—	6.70E-02	µg/L	—	—	11-2900	CAPA-11-23028	GELC
R-56	945	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.666	—	—	6.70E-02	µg/L	—	—	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.651	—	—	6.70E-02	µg/L	—	—	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.662	—	—	5.00E-02	µg/L	—	—	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.662	—	—	6.70E-02	µg/L	—	—	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.624	—	—	6.70E-02	µg/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.578	—	—	6.70E-02	µg/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.647	—	—	6.70E-02	µg/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.572	—	—	5.00E-02	µg/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.1	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1206	GELC
R-56	945	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.81	—	—	1.00E+00	µg/L	J	J	11-2900	CAPA-11-23028	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	4.15	—	—	1.00E+00	µg/L	J	U	11-2392	CAPA-11-9511	GELC
R-56	945	02/03/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.45	—	—	1.00E+00	µg/L	J	J	11-1282	CAPA-11-4723	GELC
R-56	945	08/19/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.91	—	—	1.00E+00	µg/L	J	J	10-4233	CAPA-10-24869	GELC
R-56	945	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.58	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.7	—	—	1.00E+00	µg/L	J	J	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	4.32	—	—	1.00E+00	µg/L	J	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.58	—	—	1.00E+00	µg/L	J	J	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.92	—	—	1.00E+00	µg/L	J	J	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00836	1.40E-03	3.20E-02	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0168	3.33E-03	2.90E-02	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-1.76	4.00E+00	3.80E+01	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00183	1.07E-03	3.70E-02	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-3.3	7.33E-01	6.70E+00	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00136	7.67E-04	2.30E-02	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00926	1.33E-03	4.10E-02	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.346	5.33E-01	6.00E+00	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.96	6.33E-01	6.20E+00	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-3.72	6.67E-01	7.00E+00	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.0054	4.67E-01	4.80E+00	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.502	4.67E-01	4.60E+00	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.505	4.00E-01	4.60E+00	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	2.96	7.33E-01	8.10E+00	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.593	4.00E-01	4.10E+00	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.83	5.33E-01	5.70E+00	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.989	5.00E-01	5.30E+00	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.0268	2.17E-01	2.80E+00	—	pCi/L	U	UJ	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.0239	1.60E-01	2.30E+00	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.07	2.63E-01	2.60E+00	—	pCi/L	U	U	11-2392	CAPA-11-9510	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.112	1.37E-01	2.30E+00	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	-0.626	1.53E-01	2.70E+00	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.145	1.83E-01	2.10E+00	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.6	2.57E-01	2.50E+00	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.97	3.67E-01	3.00E+00	—	pCi/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.32	3.03E-01	3.00E+00	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.56	2.57E-01	2.40E+00	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.156	8.67E-01	9.50E+00	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-1.71	9.67E-01	9.20E+00	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	0.409	9.33E-01	9.30E+00	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00894	4.67E-03	3.40E-02	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00215	1.60E-03	3.20E-02	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.014	1.93E-03	3.70E-02	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00418	2.97E-03	2.30E-02	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0161	2.87E-03	1.80E-02	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	2.43E-03	4.70E-02	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00861	2.27E-03	4.50E-02	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	2.20E-03	5.90E-02	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00418	1.70E-03	3.80E-02	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00403	1.63E-03	2.90E-02	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-7.76	5.00E+00	6.00E+01	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-54.8	7.00E+00	6.00E+01	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-0.325	6.33E+00	6.10E+01	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	40.3	6.67E+00	7.60E+01	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-24.8	6.67E+00	6.50E+01	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.0957	3.03E-02	3.20E-01	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.502	8.33E-02	8.00E-01	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.855	3.07E-01	3.40E+00	—	pCi/L	U	U	12-266	CAPA-12-1207	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.973	5.00E-01	5.20E+00	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.04	4.00E-01	3.80E+00	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.63	5.00E-01	5.00E+00	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.47	4.67E-01	5.10E+00	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0637	4.67E-02	4.90E-01	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0507	4.67E-02	5.10E-01	—	pCi/L	U	U	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.136	5.33E-02	5.50E-01	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0257	4.67E-02	4.90E-01	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0492	4.33E-02	4.70E-01	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.97	2.30E-01	2.24E+00	—	pCi/L	U	U	12-301	CAPA-12-1207	ARSL
R-56	945	07/20/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.44702	1.92E-01	1.98E+00	—	pCi/L	U	U	11-2942	CAPA-11-23029	ARSL
R-56	945	05/10/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.56457	2.45E-01	2.46E+00	—	pCi/L	U	U	11-2438	CAPA-11-9510	ARSL
R-56	945	02/03/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	2.80984	2.24E-01	1.56E+00	—	pCi/L	—	R	11-1307	CAPA-11-4722	ARSL
R-56	945	02/03/11	WG	UF	RE	—	Rad	LLEE	Tritium	—	2.04352	1.92E-01	1.50E+00	—	pCi/L	—	—	11-1307	CAPA-11-4722	ARSL
R-56	945	08/19/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.35265	2.55E-01	1.82E+00	—	pCi/L	—	R	10-4353	CAPA-10-24868	ARSL
R-56	945	08/19/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	1.40492	2.02E-01	1.82E+00	—	pCi/L	U	U	10-4353	CAPA-10-24868	ARSL
R-56	945	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.397	1.40E-02	6.10E-02	—	pCi/L	—	—	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.464	1.47E-02	4.10E-02	—	pCi/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.363	1.37E-02	7.10E-02	—	pCi/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.438	1.37E-02	3.60E-02	—	pCi/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.442	1.60E-02	8.60E-02	—	pCi/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00594	1.40E-03	3.20E-02	—	pCi/L	U	U	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0487	4.00E-03	2.20E-02	—	pCi/L	—	—	11-2900	CAPA-11-23029	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0169	3.00E-03	5.40E-02	—	pCi/L	U	U	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0112	2.27E-03	2.70E-02	—	pCi/L	U	U	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00737	3.00E-03	4.10E-02	—	pCi/L	U	U	10-4233	CAPA-10-24868	GELC
R-56	945	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.185	8.33E-03	2.70E-02	—	pCi/L	—	—	12-266	CAPA-12-1207	GELC
R-56	945	07/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.231	9.00E-03	2.50E-02	—	pCi/L	—	—	11-2900	CAPA-11-23029	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	945	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.183	8.67E-03	3.70E-02	—	pCi/L	—	—	11-2392	CAPA-11-9510	GELC
R-56	945	02/03/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.216	8.33E-03	2.60E-02	—	pCi/L	—	—	11-1282	CAPA-11-4722	GELC
R-56	945	08/19/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.212	1.00E-02	5.20E-02	—	pCi/L	—	—	10-4233	CAPA-10-24868	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	60.6	—	—	7.30E-01	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.7	—	—	7.30E-01	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	75.1	—	—	7.30E-01	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.6	—	—	7.30E-01	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.5	—	—	7.30E-01	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.5	—	—	7.30E-01	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.2	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.8	—	—	5.00E-02	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.8	—	—	5.00E-02	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.1	—	—	5.00E-02	mg/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12	—	—	5.00E-02	mg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	EPA:300.0	Chloride	—	1.86	—	—	6.60E-02	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.86	—	—	6.60E-02	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.02	—	—	6.60E-02	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.09	—	—	6.60E-02	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.27	—	—	6.60E-02	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.17	—	—	6.60E-02	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	EPA:300.0	Fluoride	—	0.293	—	—	3.30E-02	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.291	—	—	3.30E-02	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.295	—	—	3.30E-02	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.321	—	—	3.30E-02	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.333	—	—	3.30E-02	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.313	—	—	3.30E-02	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	SM:A2340B	Hardness	—	44.8	—	—	4.50E-01	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	44.7	—	—	4.50E-01	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.5	—	—	4.50E-01	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.3	—	—	4.50E-01	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45.3	—	—	4.50E-01	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	43.9	—	—	3.50E-01	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Geninorg	SM:A2340B	Hardness	—	45.6	—	—	4.50E-01	mg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.1	—	—	4.50E-01	mg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46.1	—	—	4.50E-01	mg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.3	—	—	4.50E-01	mg/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	46.8	—	—	4.50E-01	mg/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.9	—	—	3.50E-01	mg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	3.45	—	—	1.10E-01	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.45	—	—	1.10E-01	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.51	—	—	1.10E-01	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.56	—	—	1.10E-01	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.64	—	—	1.10E-01	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.53	—	—	8.50E-02	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Magnesium	—	3.51	—	—	1.10E-01	mg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.4	—	—	1.10E-01	mg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.47	—	—	1.10E-01	mg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.42	—	—	1.10E-01	mg/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.76	—	—	1.10E-01	mg/L	—	—	11-1290	CAPA-11-4731	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.6	—	—	8.50E-02	mg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.384	—	—	5.00E-02	mg/L	—	J-	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.387	—	—	5.00E-02	mg/L	—	J-	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	<	0.475	—	—	1.00E-01	mg/L	J	U	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.682	—	—	1.00E-01	mg/L	—	J-	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.51	—	—	5.00E-02	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.655	—	—	5.00E-02	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	SW-846:6850	Perchlorate	—	0.266	—	—	5.00E-02	µg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.262	—	—	5.00E-02	µg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.289	—	—	5.00E-02	µg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.275	—	—	5.00E-02	µg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.304	—	—	5.00E-02	µg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.328	—	—	5.00E-02	µg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.85	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.87	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.83	—	—	5.00E-02	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.88	—	—	5.00E-02	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.85	—	—	5.00E-02	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.7	—	—	5.00E-02	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Potassium	—	1.89	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.86	—	—	5.00E-02	mg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.84	—	—	5.00E-02	mg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.67	—	—	5.00E-02	mg/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.98	—	—	5.00E-02	mg/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.72	—	—	5.00E-02	mg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.7	—	—	1.00E-01	mg/L	—	—	11-2900	CAPA-11-23030	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.4	—	—	1.00E-01	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Geninorg	SW-846:6010B	Sodium	—	11.5	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.7	—	—	1.00E-01	mg/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.6	—	—	1.00E-01	mg/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	EPA:120.1	Specific Conductance	—	135	—	—	1.00E+00	µS/cm	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	135	—	—	1.00E+00	µS/cm	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	142	—	—	1.00E+00	µS/cm	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	EPA:300.0	Sulfate	—	2.92	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3	—	—	1.00E-01	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.72	—	—	1.00E-01	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.41	—	—	1.00E-01	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.95	—	—	1.00E-01	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.75	—	—	1.00E-01	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	EPA:160.1	Total Dissolved Solids	—	119	—	—	3.40E+00	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	123	—	—	3.40E+00	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	111	—	—	3.40E+00	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	136	—	—	2.40E+00	mg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	148	—	—	2.40E+00	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	132	—	—	2.40E+00	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Geninorg	SW-846:9060	Total Organic Carbon	—	0.569	—	—	3.30E-01	mg/L	J	J	12-264	CAPA-10-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.562	—	—	3.30E-01	mg/L	J	J	12-264	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2899	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2391	CAPA-11-9514	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.933	—	—	3.30E-01	mg/L	J	J	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.373	—	—	3.30E-01	mg/L	J	J	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Geninorg	EPA:150.1	pH	—	8.33	—	—	1.00E-02	SU	H	J-	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.3	—	—	1.00E-02	SU	H	J-	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	8.14	—	—	1.00E-02	SU	H	J-	11-2900	CAPA-11-23030	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Metals	SW-846:6010B	Barium	—	22.5	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	22.3	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	24.3	—	—	1.00E+00	µg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	22.7	—	—	1.00E+00	µg/L	—	J	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	29.4	—	—	1.00E+00	µg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	30	—	—	1.00E+00	µg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Metals	SW-846:6010B	Barium	—	23.1	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22.2	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	23.6	—	—	1.00E+00	µg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	22.2	—	—	1.00E+00	µg/L	—	J	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30.1	—	—	1.00E+00	µg/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	30.6	—	—	1.00E+00	µg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.54	—	—	2.00E+00	µg/L	J	J	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.57	—	—	2.00E+00	µg/L	J	J	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.83	—	—	2.50E+00	µg/L	J	J	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Metals	SW-846:6020	Chromium	—	2.52	—	—	2.00E+00	µg/L	J	J	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.26	—	—	2.00E+00	µg/L	J	J	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.71	—	—	2.00E+00	µg/L	J	J	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	5.55	—	—	2.50E+00	µg/L	J	J	10-4168	CAPA-10-24872	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	47.8	—	—	3.00E+01	µg/L	J	J	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	69.3	—	—	3.00E+01	µg/L	J	J	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Metals	SW-846:6010B	Iron	—	34.4	—	—	3.00E+01	µg/L	J	J	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	35.3	—	—	3.00E+01	µg/L	J	J	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	50.7	—	—	3.00E+01	µg/L	J	J	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	65.3	—	—	3.00E+01	µg/L	J	J	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	103	—	—	3.00E+01	µg/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	46.3	—	—	3.00E+01	µg/L	J	J	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Metals	SW-846:6020	Molybdenum	—	2.61	—	—	1.70E-01	µg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.64	—	—	1.70E-01	µg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.54	—	—	1.70E-01	µg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	3.14	—	—	1.70E-01	µg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.73	—	—	1.70E-01	µg/L	—	J	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.15	—	—	1.00E-01	µg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Metals	SW-846:6020	Molybdenum	—	2.49	—	—	1.70E-01	µg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.48	—	—	1.70E-01	µg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.58	—	—	1.70E-01	µg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	3.11	—	—	1.70E-01	µg/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.69	—	—	1.70E-01	µg/L	—	J	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.33	—	—	1.00E-01	µg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Metals	SW-846:6020	Nickel	—	0.731	—	—	5.00E-01	µg/L	J	J	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.601	—	—	5.00E-01	µg/L	J	J	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.7	—	—	5.00E-01	µg/L	J	J	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.614	—	—	5.00E-01	µg/L	J	J	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.909	—	—	5.00E-01	µg/L	J	J	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6020	Nickel	—	0.515	—	—	5.00E-01	µg/L	J	J	10-4168	CAPA-10-24871	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Metals	SW-846:6020	Nickel	—	0.598	—	—	5.00E-01	µg/L	J	J	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	1.97	—	—	5.00E-01	µg/L	J	J	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.699	—	—	5.00E-01	µg/L	J	J	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.608	—	—	5.00E-01	µg/L	J	J	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.839	—	—	5.00E-01	µg/L	J	J	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Metals	SW-846:6020	Nickel	—	0.666	—	—	5.00E-01	µg/L	J	J	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Metals	SW-846:6010B	Silicon Dioxide	—	69.6	—	—	5.30E-02	mg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68.1	—	—	5.30E-02	mg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.7	—	—	5.30E-02	mg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	<	68.4	—	—	5.30E-02	mg/L	—	U	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	65.9	—	—	5.30E-02	mg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.4	—	—	5.30E-02	mg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Metals	SW-846:6010B	Strontium	—	53.8	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	53.5	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	56.4	—	—	1.00E+00	µg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	55.6	—	—	1.00E+00	µg/L	—	—	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	53.8	—	—	1.00E+00	µg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	53.8	—	—	1.00E+00	µg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Metals	SW-846:6010B	Strontium	—	54.7	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	52.5	—	—	1.00E+00	µg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	55.5	—	—	1.00E+00	µg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	53.5	—	—	1.00E+00	µg/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	55.5	—	—	1.00E+00	µg/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	54.7	—	—	1.00E+00	µg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Metals	SW-846:6020	Uranium	—	0.483	—	—	6.70E-02	µg/L	—	—	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.518	—	—	6.70E-02	µg/L	—	—	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.454	—	—	6.70E-02	µg/L	—	—	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.528	—	—	6.70E-02	µg/L	—	—	11-2392	CAPA-11-9513	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.66	—	—	6.70E-02	µg/L	—	—	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.605	—	—	5.00E-02	µg/L	—	—	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Metals	SW-846:6020	Uranium	—	0.477	—	—	6.70E-02	µg/L	—	—	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.48	—	—	6.70E-02	µg/L	—	—	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.479	—	—	6.70E-02	µg/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.531	—	—	6.70E-02	µg/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.629	—	—	6.70E-02	µg/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.656	—	—	5.00E-02	µg/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	F	CS	FD	Metals	SW-846:6010B	Vanadium	—	4.79	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1210	GELC
R-56	1046.6	11/02/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.77	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1211	GELC
R-56	1046.6	07/20/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.33	—	—	1.00E+00	µg/L	J	J	11-2900	CAPA-11-23030	GELC
R-56	1046.6	05/10/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	<	4.04	—	—	1.00E+00	µg/L	J	U	11-2392	CAPA-11-9513	GELC
R-56	1046.6	02/07/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.88	—	—	1.00E+00	µg/L	J	J	11-1290	CAPA-11-4730	GELC
R-56	1046.6	08/13/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.74	—	—	1.00E+00	µg/L	J	J	10-4168	CAPA-10-24871	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Metals	SW-846:6010B	Vanadium	—	4.69	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.71	—	—	1.00E+00	µg/L	J	J	12-265	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.5	—	—	1.00E+00	µg/L	J	J	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	<	3.84	—	—	1.00E+00	µg/L	J	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.26	—	—	1.00E+00	µg/L	J	J	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	3.77	—	—	1.00E+00	µg/L	J	J	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	HASL-300	Americium-241	<	0.0024	1.40E-03	3.70E-02	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0187	3.13E-03	3.60E-02	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00442	1.47E-03	3.00E-02	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-7.86	2.37E+00	2.30E+01	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00565	2.27E-03	3.80E-02	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-10.3	2.43E+00	2.30E+01	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00783	1.47E-03	2.40E-02	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00993	1.90E-03	4.50E-02	—	pCi/L	U	U	10-4168	CAPA-10-24872	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	EPA:901.1	Cesium-137	<	2.94	5.33E-01	6.60E+00	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.993	4.00E-01	4.30E+00	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.255	5.00E-01	4.90E+00	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	0.444	6.33E-01	6.40E+00	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.655	4.33E-01	4.10E+00	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.28	4.33E-01	4.70E+00	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	EPA:901.1	Cobalt-60	<	-2.04	4.00E-01	3.60E+00	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.107	4.33E-01	4.90E+00	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.85	5.33E-01	5.70E+00	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.59	7.33E-01	7.70E+00	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.85	4.00E-01	4.40E+00	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-2.83	4.33E-01	3.00E+00	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	EPA:900	Gross alpha	<	0.878	2.07E-01	2.10E+00	—	pCi/L	U	UJ	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.794	2.27E-01	2.40E+00	—	pCi/L	U	UJ	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.634	1.60E-01	1.60E+00	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.27	2.87E-01	2.80E+00	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.363	2.03E-01	2.50E+00	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.957	1.87E-01	1.50E+00	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	EPA:900	Gross beta	—	2.79	2.67E-01	2.10E+00	—	pCi/L	—	—	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.848	2.07E-01	2.10E+00	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.79	3.10E-01	3.00E+00	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.55	3.27E-01	3.00E+00	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	3.32	2.67E-01	2.20E+00	—	pCi/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.89	2.30E-01	2.10E+00	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	EPA:901.1	Neptunium-237	<	6.26	1.03E+00	1.20E+01	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-4.38	8.00E-01	7.70E+00	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-2.21	8.33E-01	7.90E+00	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	6.25	8.00E-01	8.70E+00	—	pCi/L	U	U	10-4168	CAPA-10-24872	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	HASL-300	Plutonium-238	<	-0.00278	2.77E-03	3.20E-02	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0144	3.33E-03	3.30E-02	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.0046	2.67E-03	3.50E-02	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00713	1.37E-03	3.70E-02	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00414	1.37E-03	2.30E-02	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00291	2.17E-03	2.60E-02	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	HASL-300	Plutonium-239/240	<	0	9.33E-04	4.40E-02	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0	1.37E-03	4.50E-02	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00689	2.30E-03	4.80E-02	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0166	2.13E-03	6.00E-02	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00414	1.70E-03	3.70E-02	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.0029	1.67E-03	4.20E-02	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	EPA:901.1	Potassium-40	<	17.2	7.67E+00	9.00E+01	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-4.54	5.67E+00	6.20E+01	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-16	6.00E+00	5.20E+01	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	4.32	9.00E+00	8.70E+01	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-1.64	6.00E+00	6.50E+01	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-18.4	5.67E+00	4.90E+01	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.173	3.13E-02	2.80E-01	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.627	8.67E-02	7.90E-01	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	EPA:901.1	Sodium-22	<	-0.00886	4.67E-01	5.50E+00	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	1.16	4.00E-01	4.90E+00	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.48	5.67E-01	5.30E+00	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.621	7.00E-01	7.20E+00	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.739	3.67E-01	3.50E+00	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.595	4.67E-01	4.40E+00	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	EPA:905.0	Strontium-90	<	0.143	4.67E-02	4.70E-01	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.166	5.00E-02	4.80E-01	—	pCi/L	U	U	12-266	CAPA-12-1213	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.106	4.33E-02	4.70E-01	—	pCi/L	U	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.325	4.00E-02	4.10E-01	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0885	4.67E-02	4.90E-01	—	pCi/L	U	U	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.288	5.00E-02	4.60E-01	—	pCi/L	U	U	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	LLEE	Tritium	<	-0.57	2.00E-01	2.05E+00	—	pCi/L	U	U	12-301	CAPA-12-1212	ARSL
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.55	2.13E-01	2.11E+00	—	pCi/L	U	U	12-301	CAPA-12-1213	ARSL
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0.03193	2.13E-01	2.20E+00	—	pCi/L	U	U	11-2942	CAPA-11-23032	ARSL
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.25544	2.34E-01	2.43E+00	—	pCi/L	U	U	11-2438	CAPA-11-9514	ARSL
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-2.36282	2.02E-01	1.85E+00	—	pCi/L	U	R	11-1307	CAPA-11-4731	ARSL
R-56	1046.6	02/07/11	WG	UF	RE	—	Rad	LLEE	Tritium	<	-0.28737	1.70E-01	1.76E+00	—	pCi/L	U	U	11-1307	CAPA-11-4731	ARSL
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	3.44844	2.66E-01	1.88E+00	—	pCi/L	—	R	10-4209	CAPA-10-24872	ARSL
R-56	1046.6	08/13/10	WG	UF	RE	—	Rad	LLEE	Tritium	<	0.9579	1.92E-01	1.88E+00	—	pCi/L	U	U	10-4209	CAPA-10-24872	ARSL
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-234	—	0.294	1.20E-02	7.60E-02	—	pCi/L	—	—	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.257	1.07E-02	6.90E-02	—	pCi/L	—	—	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.344	1.17E-02	4.10E-02	—	pCi/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.365	1.43E-02	7.90E-02	—	pCi/L	—	—	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.437	1.40E-02	3.80E-02	—	pCi/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.341	1.17E-02	5.30E-02	—	pCi/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-235/236	<	0.00741	2.47E-03	4.00E-02	—	pCi/L	U	U	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0067	1.60E-03	3.60E-02	—	pCi/L	U	U	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0252	3.00E-03	2.20E-02	—	pCi/L	—	U	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0227	3.13E-03	6.10E-02	—	pCi/L	U	U	11-2392	CAPA-11-9514	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0303	2.90E-03	2.80E-02	—	pCi/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	—	0.0293	2.80E-03	2.50E-02	—	pCi/L	—	—	10-4168	CAPA-10-24872	GELC
R-56	1046.6	11/02/11	WG	UF	CS	FD	Rad	HASL-300	Uranium-238	—	0.132	7.67E-03	3.40E-02	—	pCi/L	—	—	12-266	CAPA-12-1212	GELC
R-56	1046.6	11/02/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.133	7.33E-03	3.10E-02	—	pCi/L	—	—	12-266	CAPA-12-1213	GELC
R-56	1046.6	07/20/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.195	7.67E-03	2.50E-02	—	pCi/L	—	—	11-2900	CAPA-11-23032	GELC
R-56	1046.6	05/10/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.168	8.67E-03	4.10E-02	—	pCi/L	—	—	11-2392	CAPA-11-9514	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-56	1046.6	02/07/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.215	8.33E-03	2.70E-02	—	pCi/L	—	—	11-1290	CAPA-11-4731	GELC
R-56	1046.6	08/13/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.199	8.00E-03	3.20E-02	—	pCi/L	—	—	10-4168	CAPA-10-24872	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.6	—	—	7.30E-01	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63	—	—	7.30E-01	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.1	—	—	5.00E-02	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.2	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.11	—	—	6.60E-02	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.16	—	—	6.60E-02	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.25	—	—	6.60E-02	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.35	—	—	6.60E-02	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.288	—	—	3.30E-02	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.285	—	—	3.30E-02	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.311	—	—	3.30E-02	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.302	—	—	3.30E-02	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.7	—	—	4.50E-01	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.4	—	—	4.50E-01	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46.3	—	—	4.50E-01	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	46	—	—	3.50E-01	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.6	—	—	4.50E-01	mg/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	47.1	—	—	4.50E-01	mg/L	—	—	11-2827	CAPA-11-23039	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	47.4	—	—	4.50E-01	mg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	45.5	—	—	3.50E-01	mg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.39	—	—	1.10E-01	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.46	—	—	1.10E-01	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.39	—	—	1.10E-01	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.49	—	—	8.50E-02	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.24	—	—	1.10E-01	mg/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.43	—	—	1.10E-01	mg/L	—	—	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.47	—	—	1.10E-01	mg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.45	—	—	8.50E-02	mg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.478	—	—	5.00E-02	mg/L	—	J	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.435	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.447	—	—	1.00E-01	mg/L	J	J	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.745	—	—	5.00E-02	mg/L	—	J	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.31	—	—	5.00E-02	µg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.285	—	—	5.00E-02	µg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.276	—	—	5.00E-02	µg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.331	—	—	5.00E-02	µg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.62	—	—	5.00E-02	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.59	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.44	—	—	5.00E-02	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.58	—	—	5.00E-02	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.58	—	—	5.00E-02	mg/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.57	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.42	—	—	5.00E-02	mg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.53	—	—	5.00E-02	mg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-2827	CAPA-11-23037	GELC

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Location	Depth (ft)	Date	Field Matrix	Field Prep	Lab Sample Type	Field QC Type	Suite	Method	Analyte	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.1	—	—	1.00E-01	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.7	—	—	1.00E-01	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	—	—	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.3	—	—	1.00E-01	mg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	12.6	—	—	1.00E-01	mg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	135	—	—	1.00E+00	µS/cm	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	134	—	—	1.00E+00	µS/cm	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.53	—	—	1.00E-01	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.46	—	—	1.00E-01	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.69	—	—	1.00E-01	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.56	—	—	1.00E-01	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	150	—	—	3.40E+00	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	140	—	—	3.40E+00	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	127	—	—	2.40E+00	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	157	—	—	2.40E+00	mg/L	—	J	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.347	—	—	3.30E-01	mg/L	J	J	12-156	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	<	1	—	—	3.30E-01	mg/L	U	U	11-2826	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.537	—	—	3.30E-01	mg/L	J	J	11-2367	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.353	—	—	3.30E-01	mg/L	J	J	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.68	—	—	1.00E-02	SU	H	J-	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.65	—	—	1.00E-02	SU	H	J-	11-2827	CAPA-11-23037	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.2	—	—	1.00E+00	µg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.6	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	19.5	—	—	1.00E+00	µg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	20	—	—	1.00E+00	µg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	18.3	—	—	1.00E+00	µg/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	19.6	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23039	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	20	—	—	1.00E+00	µg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	20.1	—	—	1.00E+00	µg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	16.3	—	—	1.50E+01	µg/L	J	J	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	15.4	—	—	1.50E+01	µg/L	J	J	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	20	—	—	1.50E+01	µg/L	J	J	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	16	—	—	1.50E+01	µg/L	J	J	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	15.1	—	—	1.50E+01	µg/L	J	J	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	17.8	—	—	1.50E+01	µg/L	J	J	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	2.27	—	—	2.00E+00	µg/L	J	J	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	6.23	—	—	2.00E+00	µg/L	J	J	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	3.86	—	—	2.50E+00	µg/L	J	J	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.39	—	—	2.00E+00	µg/L	J	J	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	6.81	—	—	2.00E+00	µg/L	J	J	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	3.8	—	—	2.50E+00	µg/L	J	J	10-3489	CAPA-10-22406	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Iron	<	100	—	—	3.00E+01	µg/L	U	U	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6010B	Iron	—	35.8	—	—	3.00E+01	µg/L	J	J	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	43.4	—	—	3.00E+01	µg/L	J	J	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	56.6	—	—	3.00E+01	µg/L	J	J	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	54.8	—	—	3.00E+01	µg/L	J	J	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6010B	Iron	—	89.3	—	—	3.00E+01	µg/L	J	J	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	8.34	—	—	2.00E+00	µg/L	J	J	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	10.8	—	—	2.00E+00	µg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	16.5	—	—	2.00E+00	µg/L	—	—	11-2368	CAPA-11-9519	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	9.42	—	—	2.00E+00	µg/L	J	J	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	8.2	—	—	2.00E+00	µg/L	J	J	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	11.2	—	—	2.00E+00	µg/L	—	—	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	19	—	—	2.00E+00	µg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	9.68	—	—	2.00E+00	µg/L	J	J	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.63	—	—	1.70E-01	µg/L	—	J	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.39	—	—	1.70E-01	µg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.42	—	—	1.70E-01	µg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.89	—	—	1.00E-01	µg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.58	—	—	1.70E-01	µg/L	—	J	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.32	—	—	1.70E-01	µg/L	—	—	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.59	—	—	1.70E-01	µg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.81	—	—	1.00E-01	µg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	71.7	—	—	5.30E-02	mg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.1	—	—	5.30E-02	mg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	69.1	—	—	5.30E-02	mg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	70	—	—	5.30E-02	mg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	59.9	—	—	1.00E+00	µg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	59.7	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	59.2	—	—	1.00E+00	µg/L	—	—	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	61.7	—	—	1.00E+00	µg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	57.1	—	—	1.00E+00	µg/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	59.5	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	60.9	—	—	1.00E+00	µg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	61.4	—	—	1.00E+00	µg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.35	—	—	6.70E-02	µg/L	—	—	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	<	0.319	—	—	6.70E-02	µg/L	—	U	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.311	—	—	6.70E-02	µg/L	—	—	11-2368	CAPA-11-9519	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.454	—	—	5.00E-02	µg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.348	—	—	6.70E-02	µg/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.32	—	—	6.70E-02	µg/L	—	U	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.323	—	—	6.70E-02	µg/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.454	—	—	5.00E-02	µg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.65	—	—	1.00E+00	µg/L	J	J	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.41	—	—	1.00E+00	µg/L	J	J	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	3.91	—	—	1.00E+00	µg/L	J	J	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.04	—	—	1.00E+00	µg/L	—	—	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.55	—	—	1.00E+00	µg/L	J	J	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.47	—	—	1.00E+00	µg/L	J	J	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.53	—	—	1.00E+00	µg/L	J	J	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	5.03	—	—	1.00E+00	µg/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	5.55	—	—	3.30E+00	µg/L	J	J	12-157	CAPA-12-1220	GELC
R-57	971.5	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	6.21	—	—	3.30E+00	µg/L	J	J	11-2827	CAPA-11-23037	GELC
R-57	971.5	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	4.31	—	—	3.30E+00	µg/L	J	J	11-2368	CAPA-11-9519	GELC
R-57	971.5	06/25/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	10-3489	CAPA-10-22405	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	5.68	—	—	3.30E+00	µg/L	J	J	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	7.09	—	—	3.30E+00	µg/L	J	J	11-2827	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	4.99	—	—	3.30E+00	µg/L	J	J	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00903	1.50E-03	3.70E-02	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-16.9	3.27E+00	3.00E+01	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00261	1.50E-03	3.50E-02	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-19	3.67E+00	3.30E+01	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0132	1.90E-03	3.80E-02	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00392	1.23E-03	2.50E-02	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.349	4.33E-01	4.70E+00	—	pCi/L	U	U	12-157	CAPA-12-1218	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.75	5.33E-01	4.80E+00	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.45	6.33E-01	6.20E+00	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.93	6.00E-01	5.60E+00	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.11	4.33E-01	5.80E+00	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	1.51	5.67E-01	6.00E+00	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.897	5.33E-01	5.60E+00	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	3.04	4.33E-01	5.50E+00	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.593	2.33E-01	2.60E+00	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.34	3.07E-01	2.20E+00	—	pCi/L	—	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.454	2.33E-01	2.80E+00	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	2.48	3.27E-01	2.40E+00	—	pCi/L	—	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.84	2.57E-01	2.30E+00	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.21	2.70E-01	2.30E+00	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.18	2.73E-01	2.70E+00	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	1.06	2.13E-01	2.10E+00	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-3.54	1.00E+00	1.00E+01	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	1.51	1.17E+00	1.20E+01	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	1.77E-03	6.50E-02	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00231	1.33E-03	3.50E-02	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.0111	1.67E-03	3.50E-02	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	-0.00217	2.17E-03	3.30E-02	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00375	2.17E-03	6.30E-02	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00694	1.73E-03	4.80E-02	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00221	7.33E-04	5.60E-02	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00434	2.30E-03	3.00E-02	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-0.0773	7.00E+00	8.10E+01	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	23	6.00E+00	5.60E+01	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	14.3	7.00E+00	7.80E+01	—	pCi/L	U	U	11-2368	CAPA-11-9518	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-24.1	7.67E+00	7.50E+01	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	0.109	3.33E-02	3.50E-01	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	0.354	5.33E-02	4.80E-01	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-3.55	5.33E-01	4.60E+00	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.74	6.33E-01	7.00E+00	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.569	5.00E-01	5.20E+00	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-2.49	6.33E-01	5.50E+00	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.0591	4.67E-02	4.90E-01	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.00844	4.00E-02	4.70E-01	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.337	4.33E-02	4.10E-01	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.127	4.00E-02	4.90E-01	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	0	2.13E-01	2.18E+00	—	pCi/L	U	U	12-171	CAPA-12-1218	ARSL
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.15965	2.13E-01	2.24E+00	—	pCi/L	U	U	11-2878	CAPA-11-23039	ARSL
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.92597	1.92E-01	2.01E+00	—	pCi/L	U	U	11-2438	CAPA-11-9518	ARSL
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.95932	3.51E-01	3.07E+00	—	pCi/L	U	U	10-3509	CAPA-10-22406	ARSL
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.204	1.03E-02	5.50E-02	—	pCi/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.156	7.00E-03	4.20E-02	—	pCi/L	—	—	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.217	1.03E-02	8.20E-02	—	pCi/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.295	1.03E-02	3.60E-02	—	pCi/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0	1.90E-03	4.00E-02	—	pCi/L	U	U	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0165	2.13E-03	2.30E-02	—	pCi/L	U	U	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00392	2.93E-03	6.30E-02	—	pCi/L	U	U	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0081	2.33E-03	2.40E-02	—	pCi/L	U	U	10-3489	CAPA-10-22406	GELC
R-57	971.5	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.0951	6.67E-03	6.40E-02	—	pCi/L	—	—	12-157	CAPA-12-1218	GELC
R-57	971.5	07/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.111	5.33E-03	2.50E-02	—	pCi/L	—	—	11-2828	CAPA-11-23039	GELC
R-57	971.5	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.12	7.00E-03	4.30E-02	—	pCi/L	—	—	11-2368	CAPA-11-9518	GELC
R-57	971.5	06/25/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.128	6.00E-03	2.70E-02	—	pCi/L	—	—	10-3489	CAPA-10-22406	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	12-157	CAPA-12-1216	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	64.1	—	—	7.30E-01	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	64.2	—	—	7.30E-01	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	61.4	—	—	7.30E-01	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.7	—	—	5.00E-02	mg/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.5	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.22	—	—	6.60E-02	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.24	—	—	6.60E-02	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.33	—	—	6.60E-02	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	2.5	—	—	6.60E-02	mg/L	—	J+	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.291	—	—	3.30E-02	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.287	—	—	3.30E-02	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.335	—	—	3.30E-02	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	EPA:300.0	Fluoride	—	0.303	—	—	3.30E-02	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	47.3	—	—	4.50E-01	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	48.7	—	—	4.50E-01	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	48.9	—	—	4.50E-01	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	SM:A2340B	Hardness	—	45.1	—	—	3.50E-01	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	49	—	—	4.50E-01	mg/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	48.1	—	—	4.50E-01	mg/L	—	—	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	47.9	—	—	4.50E-01	mg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Geninorg	SM:A2340B	Hardness	—	44.7	—	—	3.50E-01	mg/L	—	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.43	—	—	1.10E-01	mg/L	—	—	12-157	CAPA-12-1216	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.58	—	—	1.10E-01	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.62	—	—	1.10E-01	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.36	—	—	8.50E-02	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.59	—	—	1.10E-01	mg/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.51	—	—	1.10E-01	mg/L	—	—	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.53	—	—	1.10E-01	mg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Magnesium	—	3.31	—	—	8.50E-02	mg/L	—	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.505	—	—	5.00E-02	mg/L	—	J	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.462	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.499	—	—	1.00E-01	mg/L	J	J	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	EPA:353.2	Nitrate-Nitrite as Nitrogen	—	0.605	—	—	5.00E-02	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.273	—	—	5.00E-02	µg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.262	—	—	5.00E-02	µg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.273	—	—	5.00E-02	µg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	SW-846:6850	Perchlorate	—	0.341	—	—	5.00E-02	µg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.64	—	—	5.00E-02	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.56	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.58	—	—	5.00E-02	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.46	—	—	5.00E-02	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.63	—	—	5.00E-02	mg/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.58	—	—	5.00E-02	mg/L	—	—	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.52	—	—	5.00E-02	mg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Potassium	—	1.41	—	—	5.00E-02	mg/L	—	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11	—	—	1.00E-01	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.4	—	—	1.00E-01	mg/L	E	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.9	—	—	1.00E-01	mg/L	—	—	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	910	07/13/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.7	—	—	1.00E-01	mg/L	—	—	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	10.8	—	—	1.00E-01	mg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Sodium	—	11.2	—	—	1.00E-01	mg/L	E	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	140	—	—	1.00E+00	µS/cm	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	EPA:120.1	Specific Conductance	—	136	—	—	1.00E+00	µS/cm	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.69	—	—	1.00E-01	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.53	—	—	1.00E-01	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	2.76	—	—	1.00E-01	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	EPA:300.0	Sulfate	—	3.21	—	—	1.00E-01	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	129	—	—	3.40E+00	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	144	—	—	3.40E+00	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	120	—	—	2.40E+00	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Geninorg	EPA:160.1	Total Dissolved Solids	—	137	—	—	2.40E+00	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.466	—	—	3.30E-01	mg/L	J	J	12-156	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.517	—	—	3.30E-01	mg/L	J	J	11-2826	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.693	—	—	3.30E-01	mg/L	J	J	11-2367	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Geninorg	SW-846:9060	Total Organic Carbon	—	0.472	—	—	3.30E-01	mg/L	J	J	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.95	—	—	1.00E-02	SU	H	J-	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Geninorg	EPA:150.1	pH	—	7.96	—	—	1.00E-02	SU	H	J-	11-2827	CAPA-11-23033	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	16.9	—	—	1.00E+00	µg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	16.9	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	17.4	—	—	1.00E+00	µg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6010B	Barium	—	16.8	—	—	1.00E+00	µg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	17.6	—	—	1.00E+00	µg/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	17	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	17.5	—	—	1.00E+00	µg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6010B	Barium	—	16.7	—	—	1.00E+00	µg/L	—	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	15.5	—	—	1.50E+01	µg/L	J	J	12-157	CAPA-12-1216	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6010B	Boron	—	15.8	—	—	1.50E+01	µg/L	J	J	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	16.8	—	—	1.50E+01	µg/L	J	J	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Boron	<	50	—	—	1.50E+01	µg/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6010B	Boron	—	16.9	—	—	1.50E+01	µg/L	J	J	10-3534	CAPA-10-22387	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	5.31	—	—	2.00E+00	µg/L	J	J	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Chromium	<	10	—	—	2.00E+00	µg/L	U	U	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6020	Chromium	—	4.55	—	—	2.50E+00	µg/L	J	J	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.39	—	—	2.00E+00	µg/L	J	J	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	5.22	—	—	2.00E+00	µg/L	J	J	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	2.23	—	—	2.00E+00	µg/L	J	J	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6020	Chromium	—	4.85	—	—	2.50E+00	µg/L	J	J	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	41.7	—	—	2.00E+00	µg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	64.7	—	—	2.00E+00	µg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	78.6	—	—	2.00E+00	µg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6010B	Manganese	—	13.7	—	—	2.00E+00	µg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	42.7	—	—	2.00E+00	µg/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	65.7	—	—	2.00E+00	µg/L	—	—	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	79.2	—	—	2.00E+00	µg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6010B	Manganese	—	13.4	—	—	2.00E+00	µg/L	—	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.21	—	—	1.70E-01	µg/L	—	J	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.16	—	—	1.70E-01	µg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	2.33	—	—	1.70E-01	µg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6020	Molybdenum	—	1.83	—	—	1.00E-01	µg/L	—	J	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.24	—	—	1.70E-01	µg/L	—	J	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.82	—	—	1.70E-01	µg/L	—	—	11-2827	CAPA-11-23035	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	2.28	—	—	1.70E-01	µg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6020	Molybdenum	—	1.89	—	—	1.00E-01	µg/L	—	J	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.1	—	—	5.30E-02	mg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	67.6	—	—	5.30E-02	mg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	68	—	—	5.30E-02	mg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6010B	Silicon Dioxide	—	64.9	—	—	5.30E-02	mg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	59.5	—	—	1.00E+00	µg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	59.4	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	61.4	—	—	1.00E+00	µg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6010B	Strontium	—	58.4	—	—	1.00E+00	µg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	61.3	—	—	1.00E+00	µg/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	58.8	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	59.8	—	—	1.00E+00	µg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6010B	Strontium	—	57.4	—	—	1.00E+00	µg/L	—	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.369	—	—	6.70E-02	µg/L	—	—	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	<	0.369	—	—	6.70E-02	µg/L	—	U	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6020	Uranium	—	0.372	—	—	6.70E-02	µg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6020	Uranium	<	0.35	—	—	5.00E-02	µg/L	—	U	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.37	—	—	6.70E-02	µg/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.345	—	—	6.70E-02	µg/L	—	U	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6020	Uranium	—	0.366	—	—	6.70E-02	µg/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6020	Uranium	<	0.469	—	—	5.00E-02	µg/L	—	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.77	—	—	1.00E+00	µg/L	J	J	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.05	—	—	1.00E+00	µg/L	—	—	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	4.27	—	—	1.00E+00	µg/L	J	J	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6010B	Vanadium	—	5.06	—	—	1.00E+00	µg/L	—	—	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.62	—	—	1.00E+00	µg/L	J	J	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.9	—	—	1.00E+00	µg/L	J	J	11-2827	CAPA-11-23035	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.93	—	—	1.00E+00	µg/L	J	J	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6010B	Vanadium	—	4.54	—	—	1.00E+00	µg/L	J	J	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	8.28	—	—	3.30E+00	µg/L	J	J	12-157	CAPA-12-1216	GELC
R-57	910	07/13/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	8.43	—	—	3.30E+00	µg/L	J	J	11-2827	CAPA-11-23033	GELC
R-57	910	05/09/11	WG	F	CS	—	Metals	SW-846:6010B	Zinc	—	29.2	—	—	3.30E+00	µg/L	—	—	11-2368	CAPA-11-9517	GELC
R-57	910	07/01/10	WG	F	CS	—	Metals	SW-846:6010B	Zinc	<	10	—	—	3.30E+00	µg/L	U	U	10-3534	CAPA-10-22388	GELC
R-57	910	10/21/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	8.59	—	—	3.30E+00	µg/L	J	J	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	8.97	—	—	3.30E+00	µg/L	J	J	11-2827	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	6.24	—	—	3.30E+00	µg/L	J	J	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Metals	SW-846:6010B	Zinc	—	9.34	—	—	3.30E+00	µg/L	J	J	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.0086	2.03E-03	3.50E-02	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00234	1.33E-03	3.20E-02	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	0.668	4.00E+00	4.00E+01	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	0.00941	3.27E-03	3.80E-02	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Americium-241	<	-22.7	3.30E+00	3.00E+01	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	HASL-300	Americium-241	<	-0.00657	1.53E-03	6.20E-02	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-1.87	5.33E-01	5.70E+00	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-0.668	6.67E-01	6.70E+00	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	-2.58	5.67E-01	4.90E+00	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	EPA:901.1	Cesium-137	<	1.66	4.00E-01	4.30E+00	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.656	4.67E-01	5.90E+00	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.353	5.67E-01	5.60E+00	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	-0.234	5.33E-01	5.20E+00	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	EPA:901.1	Cobalt-60	<	0.518	4.00E-01	4.10E+00	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.341	2.17E-01	2.70E+00	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	1.38	2.43E-01	2.10E+00	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.274	2.30E-01	2.80E+00	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	EPA:900	Gross alpha	<	0.247	1.63E-01	2.20E+00	—	pCi/L	U	U	10-3534	CAPA-10-22387	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	0.705	2.43E-01	2.50E+00	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	—	2.8	2.93E-01	2.40E+00	—	pCi/L	—	—	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.84	3.30E-01	2.90E+00	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	EPA:900	Gross beta	<	2.06	3.00E-01	2.80E+00	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	-0.713	8.33E-01	9.00E+00	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	EPA:901.1	Neptunium-237	<	3.99	7.33E-01	7.80E+00	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00704	2.87E-03	6.10E-02	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	1.43E-10	1.13E-03	3.60E-02	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0	1.07E-03	3.60E-02	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-238	<	0.00781	3.33E-03	3.50E-02	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00352	2.03E-03	6.00E-02	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.00963	2.53E-03	5.00E-02	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	0.00454	2.63E-03	5.80E-02	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	HASL-300	Plutonium-239/240	<	-0.0026	2.30E-03	3.50E-02	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	2.15	7.00E+00	7.50E+01	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-25.2	6.33E+00	5.90E+01	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	-18.5	6.33E+00	6.60E+01	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	EPA:901.1	Potassium-40	<	20.7	5.67E+00	6.20E+01	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:903.1	Radium-226	<	-0.0203	2.43E-02	3.10E-01	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:904	Radium-228	<	-0.469	6.33E-02	8.40E-01	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-1.68	5.00E-01	5.00E+00	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	-0.44	5.00E-01	4.90E+00	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	2.39	4.67E-01	5.70E+00	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	EPA:901.1	Sodium-22	<	0.321	3.67E-01	3.80E+00	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0365	4.67E-02	4.90E-01	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	-0.0686	3.33E-02	4.00E-01	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.106	5.00E-02	5.20E-01	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	EPA:905.0	Strontium-90	<	0.248	4.67E-02	4.60E-01	—	pCi/L	U	U	10-3534	CAPA-10-22387	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	Symbol	Result	1-sigma TPU	MDA	MDL	Unit	Lab Qual	2nd Qual	Request	Sample	Lab
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	62.2	—	—	7.30E-01	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	65.4	—	—	7.30E-01	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	63.7	—	—	7.30E-01	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	54.8	—	—	7.30E-01	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	EPA:310.1	Alkalinity-CO3+HCO3	—	59.4	—	—	7.30E-01	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.6	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.9	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.3	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7311	GELC
R-20	1147.1	10/11/10	WG	F	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.5	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27375	GELC
R-20	1147.1	10/27/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.9	—	—	5.00E-02	mg/L	—	—	12-201	CAPA-12-1136	GELC
R-20	1147.1	07/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	13.3	—	—	5.00E-02	mg/L	—	—	11-2921	CAPA-11-22881	GELC
R-20	1147.1	04/25/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	15	—	—	5.00E-02	mg/L	—	—	11-2171	CAPA-11-9314	GELC
R-20	1147.1	01/21/11	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	11.6	—	—	5.00E-02	mg/L	—	—	11-1182	CAPA-11-7312	GELC
R-20	1147.1	10/11/10	WG	UF	CS	—	Geninorg	SW-846:6010B	Calcium	—	12.7	—	—	5.00E-02	mg/L	—	—	11-128	CAPA-10-27377	GELC
R-20	1147.1	10/27/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.75	—	—	6.60E-02	mg/L	—	—	12-201	CAPA-12-1138	GELC
R-20	1147.1	07/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.82	—	—	6.60E-02	mg/L	—	—	11-2921	CAPA-11-22882	GELC
R-20	1147.1	04/25/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	—	1.93	—	—	6.60E-02	mg/L	—	—	11-2171	CAPA-11-9312	GELC
R-20	1147.1	01/21/11	WG	F	CS	—	Geninorg	EPA:300.0	Chloride	<	1.79	—	—	6.60E-02	mg/L	—	U	11-1182	CAPA-11-7311	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.24	2.10E-01	2.16E+00	—	pCi/L	U	U	12-171	CAPA-12-1215	ARSL
R-57	910	07/13/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-1.08562	2.02E-01	2.01E+00	—	pCi/L	U	U	11-2878	CAPA-11-23035	ARSL
R-57	910	05/09/11	WG	UF	CS	—	Rad	LLEE	Tritium	<	-0.83018	2.87E-01	2.94E+00	—	pCi/L	U	U	11-2438	CAPA-11-9515	ARSL
R-57	910	07/01/10	WG	UF	CS	—	Rad	LLEE	Tritium	<	-3.41651	2.45E-01	1.88E+00	—	pCi/L	U	U	10-3596	CAPA-10-22387	ARSL
R-57	910	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.232	1.07E-02	5.20E-02	—	pCi/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.243	1.00E-02	5.60E-02	—	pCi/L	—	—	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.223	1.00E-02	7.50E-02	—	pCi/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	HASL-300	Uranium-234	—	0.321	1.17E-02	5.80E-02	—	pCi/L	—	—	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.0155	2.60E-03	3.80E-02	—	pCi/L	U	U	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00311	1.80E-03	3.00E-02	—	pCi/L	U	U	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00715	1.70E-03	5.80E-02	—	pCi/L	U	U	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	HASL-300	Uranium-235/236	<	0.00836	1.63E-03	3.50E-02	—	pCi/L	U	U	10-3534	CAPA-10-22387	GELC
R-57	910	10/21/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.106	6.67E-03	6.10E-02	—	pCi/L	—	—	12-157	CAPA-12-1215	GELC
R-57	910	07/13/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.088	5.67E-03	3.30E-02	—	pCi/L	—	—	11-2828	CAPA-11-23035	GELC
R-57	910	05/09/11	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.145	8.00E-03	3.90E-02	—	pCi/L	—	—	11-2368	CAPA-11-9515	GELC
R-57	910	07/01/10	WG	UF	CS	—	Rad	HASL-300	Uranium-238	—	0.126	6.33E-03	4.00E-02	—	pCi/L	—	—	10-3534	CAPA-10-22387	GELC





# **Appendix D**

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*Analytical Chemistry Screening Results*



The following pages provide lists of (1) acronyms, abbreviations, symbols, and various analytical codes, (2) analytical laboratory qualifier codes, (3) secondary validation flag codes, and (4) secondary validation reason codes that may be used in Appendix D. Please note that these are comprehensive lists, and this periodic monitoring report may not include all of the acronyms, abbreviations, symbols, and codes in the lists.

The secondary data validation summary is provided in Appendix F.

### Acronyms and Abbreviations

Acronym, Abbreviation, or Symbol	Description
<b>Miscellaneous</b>	
%	percent
%D	percent difference
%R	percent recovery
%RSD	percent standard deviation
<	Based on qualifiers, the result was a nondetection.
—	none
4,4'-DDD	4,4'-dichlorodipenyldichloroethane
4,4'-DDT	4,4'-dichlorodipenyltrichloroethane
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	dichlorodipenyldichloroethylene
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 chromatograph/mass spectrometer
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
IS	internal standard
LAL	lower acceptance limit

**Acronyms and Abbreviations (continued)**

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

**Acronyms and Abbreviations (continued)**

Acronym, Abbreviation, or Symbol	Description
<b>Miscellaneous (continued)</b>	
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
<b>Field Matrix Codes</b>	
W	water
WG	groundwater
WM	snowmelt
WP	persistent flow
WS	base flow
WT	storm runoff
<b>Field Prep Codes</b>	
F	filtered
UF	unfiltered
<b>Field QC Type Codes</b>	
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
PEK	performance evaluation known
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
<b>Analytical Suite Codes</b>	
ANION	anions
DIOX/FUR, Diox/Fur	dioxins and furans
DRO	diesel range organics
GAMMA, GAMMA_SPEC	gamma spectroscopy
Geninorg, GENINORG	general inorganics

**Acronyms and Abbreviations (continued)**

Acronym, Abbreviation, or Symbol	Description
<b>Analytical Suite Codes (continued)</b>	
GRO	gasoline range organics
GROSSA	gross alpha
GROSSB	gross beta
HERB	herbicides
HEXP	high explosives
INORGANIC	inorganics
ISOTOPE, Isotope	isotope ratios
METALS, Metals	metals
PCB	polychlorinated biphenyls
PCB_CONG, PCB Cong	PCB congeners
PEST	pesticides
PEST/PCB, PESTPCB	pesticides and PCBs
RAD, Rad	radiochemistry (not gamma)
SVOA	semivolatile organics
SVOC	semivolatile organic compounds
VOA	volatile organics
VOC	volatile organic compounds
<b>Lab Sample Type Codes</b>	
CS	client sample
DL	dilution
DUP	duplicate
RE	reanalysis
REDL	reanalysis dilution
REDP	reanalysis duplicate
RI	reissue
TRP	triplicate
<b>Lab Codes</b>	
ALTC	Alta Analytical Laboratory, Inc., San Diego, CA
ARSL	American Radiation Services—Primary
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.
GELC	General Engineering Laboratories, Inc., Charleston, SC
GEO	Geochron Laboratories, Boston, MA
HENV	Health and Environmental Laboratory (Johnson Controls, Northern New Mexico)

**Acronyms and Abbreviations (continued)**

Acronym, Abbreviation, or Symbol	Description
<b>Lab Codes (continued)</b>	
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

### 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.
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.



**Analytical Laboratory Qualifier Codes (continued)**

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

**Analytical Laboratory Qualifier Codes (continued)**

Code	Description
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.

### Secondary Validation Reason Codes

Code	Description
12a	Metals interference check sample percent recovery (%R) value is $\geq 50\%$ and $< 80\%$ .
CB0	The absolute retention time (RT) of chlorinated biphenyl congener (CB) 209 must be $\geq 55$ min if the SPB-Octyl column is used. If a GC column or column system alternate to the SPB-Octyl column is used, the absolute RT of CB 209 must be $\geq$ the laboratory-established minimum RT for CB 209. If the laboratory has not established a minimum RT value for CB 209, the RT for CB 209 must be $\geq 55$ min. If an SPB-Octyl column was used and the absolute RT of CB 209 is $< 55$ min, qualify all associated results as R. If a GC column or column systems alternate to the SPB-Octyl column was used and the absolute RT is $<$ the laboratory established minimum RT for CB 209, or $< 55$ min if the laboratory has not established a minimum RT, qualify all associated results as R. The absolute RTs of the Labeled Toxics/LOC/window defining standard congeners in the verification test must be within $\pm 15$ s of the respective RTs in the calibration or, if an alternate column or column system is employed, within $\pm 15$ s of the respective RTs in the calibration for the alternate column or column system. The relative retention times (RRTs) of native CBs and labeled compounds in the verification test must be within their respective RRT limits or, if an alternate column or column system is employed, within their respective RRT limits for the alternate column or column system. If the RT or RRT of any compound is not within the limits specified, the GC is not performing properly. In this event, adjust the GC and repeat the verification test or recalibrate, or replace the GC column and either verify calibration or recalibrate. The RRT of each CB must be within $\pm 0.5\%$ of the mean RRT determined from the initial calibration or $\pm 0.5\%$ of the RRT from the most recent calibration verification standard. If the RRT of any CB is outside of the RRT window, qualify all associated results as R. If the RT criteria are not met, qualify all associated results as R.
CB0b	Required RT documentation is missing. Data may not be acceptable for use. Contact the Sample Management Office (SMO) or external laboratory for information.
CB3	To assess method performance on the sample matrix, the laboratory must spike all samples with the Labeled Toxics/LOC/Window defining standard spiking solution and all sample extracts with the labeled cleanup standard spiking solution. The recovery of each labeled compound must be within the limits listed in Table 6 of the U.S. Environmental Protection Agency (EPA) Method 1668A. If the recovery of any Labeled Toxics/LOC/Window defining standard compound is $< 10\%$ , qualify all not detected results as R and all detected results as J-.
CB3a	The labeled compound is $<$ the lower acceptance limit (LAL) but $\geq 10\%$ R. The recovery of each labeled compound must be within the limits in Table 6 of EPA Method 1668A. If the recovery of any Labeled Toxics/LOC/Window defining standard compound is below acceptance limits, qualify all detects for that sample fraction as J and all nondetects for that sample fraction as UJ if the recovery is $\geq 10\%$ .
CB3b	The labeled compound is $>$ the upper acceptance limit (UAL). The recovery of each labeled compound must be within the limits listed in Table 6 of EPA Method 1668A. If the recovery of any Labeled Toxics/LOC/Window defining standard compound is above acceptance limits, qualify all detects for that sample fraction as J and all nondetects for that sample fraction as UJ.
CB3d	Required labeled compound information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
CB4	The sample result is $\leq 5$ times the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
CB4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5$ times.

**Secondary Validation Reason Codes (continued)**

Code	Description
CB4d	The sample result is $\leq 5$ times the concentration of the related analyte in the trip blank, rinsate blank, and equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
CB4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
CB7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.
CB7a	<p>Isotope dilution shall be used for calibration of the toxics and beginning and ending level of chlorination (LOC) CBs. A 5- or 6-point calibration is prepared for each native congener. The relative response factor (RRF) percent standard deviation (%RSD) for all native toxins/LOC CBs must be <math>&lt; 20\%</math>. If a linear curve is used for initial calibration, the <math>r^2</math> of the curve must be <math>&gt; 0.99</math>.</p> <ol style="list-style-type: none"> <li>1. If the %RSD for any target compound is <math>&gt; 20\%</math> but <math>\leq 40\%</math>, qualify all associated detects as J and, if any other calibration criteria have been exceeded for that compound, qualify all associated nondetects as UJ.</li> <li>2. If the %RSD for any target compound is <math>&gt; 40\%</math> but <math>\leq 60\%</math>, qualify all associated detects as J and all associated nondetects as UJ.</li> <li>3. If the %RSD for any target compound is <math>&gt; 60\%</math>, qualify all associated detects as J and all associated nondetects as R.</li> <li>4. If the <math>r^2</math> for any target compound is <math>&lt; 0.99</math> but <math>\geq 0.90</math>, qualify all associated detects as J and, if any other calibration criteria have been exceeded for that compound, qualify all associated nondetects as UJ.</li> <li>5. If the <math>r^2</math> for any target compound is <math>&lt; 0.90</math> but <math>\geq 0.80</math>, qualify all associated detects as J and all associated nondetects as UJ.</li> <li>6. If the <math>r^2</math> for any target compound is <math>&lt; 0.80</math>, qualify all associated detects as J and all associated nondetects as R.</li> </ol>
CB7b	The affected analytes did not meet the ion abundance ratios criteria in the initial calibration and/or continuing calibration verification (CCV). Calibration using internal standards is used for determination of native CBs for which a labeled compound is not available. For these CBs, calibration is performed at a single point. Compounds should be quantitated using the appropriate reference internal standard listed in Table 2 of EPA Method 1668A. Ion abundance ratios must meet the criteria in Attachment 4, Theoretical Ion Abundance Ratios and QC Limits for EPA Method 1668A, of this procedure or must be within 15% of the theoretical ratio of the ion monitored. If the ion abundance criteria are not met, qualify all detected results for that analyte as R.
CB7c	The ICV and/or CCV were recovered outside the method limits (see CB7a for initial calibration [ICAL] specifications). At the beginning of each 12-h period during which analysis is performed, calibration is verified for all native CBs and labeled compounds. The ion abundance ratios for all CBs must be within the limits in Attachment 4, and all compounds must meet the calibration verification recovery limits listed in Attachment 5, QA Acceptance Criteria for CBs in Calibration Verification, Initial Precision and Recovery, OPR, and Samples for EPA Method 1668A. RRTs of native CBs and labeled compounds in the calibration verification must be within $\pm 0.5\%$ of the mean RRT determined from the initial calibration or most recent calibration verification standard. The diluted combined 209 congener solution must be analyzed as a final step in the calibration verification and must meet the minimum analysis and resolution specifications of the method. If the ion abundance ratio for any calibration verification compound is outside of the method limits, qualify all associated detects as J and all associated nondetects as UJ. If the verification limits are not met for any calibration verification compound and the recovery is above the verification limits, qualify all associated detects as J+. If the verification limits are not met for any calibration verification compound and the recovery is below the verification limits, qualify all associated detects as J- and all associated nondetects as UJ if the recovery is $\geq 10\%$ and as R if the recovery is $< 10\%$ . If the RRT of any compound is outside of the RRT window, qualify all associated results as R.

### Secondary Validation Reason Codes (continued)

Code	Description
CB7d	The ICV and/or CCV were not analyzed at the appropriate method frequency. At the beginning of each 12-h period during which analysis is performed, calibration is verified for all native CBs and labeled compounds. Use professional judgment based on when ICVs and CCVs were analyzed (also, see CB7f).
CB7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
CB8	The affected analyte is considered rejected because ion abundance ratios did not meet specifications. For identification of any CB or labeled compound, the ion abundance ratios must be within the limits specified in Attachment 4, or $\pm 15\%$ of the calibration verification standard. If ion abundance ratio criteria were not met for any compound, qualify all associated results as R.
CB8a	The ion ratio documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
CB9	The extraction/analytical holding time was exceeded by less than 2 times the published method for holding times. There are no demonstrated maximum holding times associated with the CBs in EPA Method 1668, aqueous, solid, semisolid, tissues, or other sample matrices. If stored in the dark at 0–4°C and preserved as given above (if required), aqueous samples may be stored for up to 1 yr. Similarly, if stored in the dark at $< -10^\circ\text{C}$ , solid semisolid, multiphase, and tissue samples may be stored for up to 1 yr. Store sample extracts in the dark at $< -10^\circ\text{C}$ until analyzed. If stored in the dark at $< -10^\circ\text{C}$ , sample extracts may be stored for up to 1 yr.
CB9a	The extraction/analytical holding time was exceeded by more than 2 times the published method for holding times. There are no demonstrated maximum holding times associated with the CBs in EPA Method 1668, aqueous, solid, semisolid, tissues, or other sample matrices. If stored in the dark at 0–4°C and preserved as given above (if required), aqueous samples may be stored for up to 1 yr. Similarly, if stored in the dark at $< -10^\circ\text{C}$ , solid, semisolid, multiphase, and tissue samples may be stored for up to 1 yr. Store sample extracts in the dark at $< -10^\circ\text{C}$ until analyzed. If stored in the dark at $< -10^\circ\text{C}$ , sample extracts may be stored for up to 1 yr.
CB12	The ongoing precision recovery (OPR) %R was less than 10%. OPR is a method blank spiked with known quantities of analytes. The OPR is analyzed exactly like a sample. Its purpose is to assure that the results produced by the laboratory remain within the limits specified in this EPA method for precision and recovery. OPR must be established for every batch of samples extracted and analyzed and must meet the recovery and %RSD limits listed in Attachment 5. If the OPR criteria are not met and reanalysis was not performed, the laboratory performance and method accuracy are in question: <ol style="list-style-type: none"> <li>1. If the OPR recovery is <math>&lt; 10\%</math>, qualify all detects as J- and all associated nondetects as R.</li> <li>2. If recoveries of more than half of the compounds in the OPR analysis are below 10%, qualify all associated defects as J- and all associated nondetects as R. NOTE: If recoveries for more than half of the compounds in the OPR analysis are below the acceptance range, the laboratory has not shown that it can actually meet program-required detection limits.</li> </ol>
CB12a	The OPR sample %R was $<$ the LAL but $> 10\%$ . If the OPR recovery is $<$ the LAL, qualify all associated detects as J- and all associated nondetects as "UJ" if the recovery is $\geq 10\%$ .
CB12b	The OPR sample %R was $>$ the UAL. If the OPR recovery is $>$ the UAL, qualify all associated detects as J+. If recoveries of more than half of the compounds in the OPR analysis are above the acceptance range, qualify all associated detects as J+.
CB12c	The OPR sample documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.

**Secondary Validation Reason Codes (continued)**

Code	Description
CB12d	If recoveries of more than half of the compounds in the OPR analysis exceed the acceptance range, both above and below, qualify all associated detects as J and all associated nondetects as UJ.
CB15	The affected analytes are considered suspect because the sample was diluted without any target analytes identified because of matrix interference. (Qualify as R if the analytical laboratory cannot provide proof for matrix interference.)
CB16	Gas chromatograph/mass spectrometer (GC/MS) instrument performance checks are performed to ensure mass resolution, identification, and to some degree, sensitivity. These criteria are not sample-specific. Conformance is determined using standard materials; therefore, these criteria should be met in all circumstances. Failure to meet either the resolution or the retention window criteria invalidates all calibration or sample data collected during the 12-h time window. If mass spectrometer performance was not evaluated at the required frequency or if method criteria were not met, qualify all associated detects and nondetects as R.
CB16c	The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.
CB19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can only be used under advisement by the project chemist.
CB88	Duplicate, dilution, or reanalysis.
DF0	The internal standard (IS) RT and qualitative criteria for target compound identification were not met. For 2,3,7,8-substituted compounds that have an isotopically labeled IS or recovery standard present in the sample extract, the RT must be -1 to +3 seconds of the isotopically labeled standard. For 2,3,7,8-substituted compounds that do not have an isotopically labeled IS or recovery standard present in the sample extract, the RT must fall within 0.005 RRT units of the RRT measured in the continuing calibration. For non-2,3,7,8-substituted compounds, the RT must be within the corresponding homologous RT windows established by analyzing the column performance check solution. If the RT of any compound is outside of the RT window, qualify all associated results as R.
DF0b	RRT documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
DF1d	Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
DF4	The sample result is ≤5 times the concentration of the related analyte in the method blank. The criteria for the frequency of extraction and analysis of method blanks as stated in Section 9.5 of Method 1613B shall be followed and demonstrated in the documented data. The maximum amount of polychlorinated dibenzo-p-dioxin (PCDD) and polychlorinated dibenzofuran (PCDF) isomer contamination in method blanks is stated in Table 2 of Method 1613B. The method blank must be measured on each GC/MS system that is used to measure a group of samples. This requirement includes measuring method blanks on a second GC column if confirmatory analysis of sample extracts on a second column is required by the method or by the laboratory statement of work. Any PCDD or PCDF measurement in a sample that is also measured in any associated blank is qualified with a U flag if the sample concentration is <5 times the blank concentration.

**Secondary Validation Reason Codes (continued)**

Code	Description
DF4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5 times. The criteria for the frequency of extraction and analysis of method blanks as stated in Section 9.5 of Method 1613B shall be followed and demonstrated in the documented data. The maximum amount of PCDD and PCDF isomer contamination in method blanks is stated in Table 2 of Method 1613B. The method blank must be measured on each GC/MS system that is used to measure a group of samples. This requirement includes measuring method blanks on a second GC column if confirmatory analysis of sample extracts on a second column is required by the method or by the laboratory statement of work. If the maximum contamination requirements of specific tetrachlorodibenzo-p-dioxin (TCDD) and tetrachlorodibenzofuran (TCDF) isomers stated in Table 2 of Method 1613B are not met, then all isomers in all samples associated with a method blank shall be qualified with a J flag.
DF4d	The sample result is ≤5 times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank. Any PCDD or PCDF measurement in a sample that is also measured in any associated blank is qualified with a U flag if the sample concentration is less than 5 times the blank concentration.
DF4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If the frequency of measuring method blanks is not met by the laboratory in the data submitted, then the results of all samples that do not meet the frequency of extraction and measurement of method blanks shall be qualified with an R flag.
DF7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit. There shall be an initial calibration curve consisting of five points for each analyte. The initial calibration curve shall be determined < 30 d from the time the first samples of a sample delivery group (SDG) are measured by the laboratory. The laboratory shall use the same calibration standards with the same lot number for all internal standards and for all labeled standards used in measuring the initial calibration curve, verification standards, field samples, and method blanks on both the primary GC column and the secondary confirmation GC column.
DF7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria. A 5-point calibration is prepared for each labeled and unlabeled compound. The RRF %RSD for the unlabeled standards must be ≤30%. Ion abundance ratios must meet the criteria listed in Attachment 4. If the %RSD is >20% for any unlabeled calibration standard, or >30% for any labeled calibration standard, but ≤40%, qualify all associated detects as J and, if any other calibration criteria have been exceeded for that compound, qualify all associated nondetects as UJ. If the %RSD is >40% but ≤60% for either a labeled or unlabeled calibration standard, qualify all associated detects as J and all associated nondetects as UJ. If the %RSD is >60% for either a labeled or unlabeled calibration standard, qualify all associated detects as J and all associated nondetects as R. If the ion abundance criteria were not met for any calibration compound, qualify all associated detects as J and all associated nondetects as UJ. If the affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit, qualify the results as not detected. Ion abundance must meet the criteria in Attachment 4.
DF7b	The affected analytes were analyzed with an out-of-range ion abundance in the initial calibration and/or CCV. Ion abundance must meet the criteria in Attachment 4. If the ion abundance criteria are not met, qualify results for that analyte as R.

### Secondary Validation Reason Codes (continued)

Code	Description
DF7c	<p>The ICV and/or CCV were recovered outside the method-specific limits. See DF7a for ICAL specifications. The ion abundance must be within the limits in Attachment 4. For the calibration verification analyzed at the beginning of a 12-h period, the effect on data quality of a standard that does not meet criteria must be assessed using professional judgment. Guidance is provided in Section 7.7.4.4 of EPA Method 8290. For the calibration verification analyzed at the end of a 12-h period, a percent difference (%D) of 25% for unlabeled compounds and 35% for labeled compounds is acceptable; however, in this instance, the mean response factors (RFs) obtained from the beginning and ending daily calibration runs are used to calculate analyte concentrations instead of the RFs obtained from the initial calibration. If the %D of the ending calibration is &gt;25% for any unlabeled compound and/or &gt;35% for any labeled compound, then successful performance of another initial calibration must be analyzed within 2 h of sample analysis for the data to be acceptable. In this case, the mean RFs from the beginning and ending daily calibration runs are still used to calculate analyte concentrations.</p> <ol style="list-style-type: none"> <li>1. If the ion abundance ratio for any compound is outside of the method limits, qualify all associated detects as J and all associated nondetects as UJ.</li> <li>2. If the %D criteria were not met for any CCV compound at the beginning of a 12-h period and the %D is positive, qualify all associated detects as J+.</li> <li>3. If the %D criteria were not met for any CCV compound at the beginning of a 12-h period and the %D is negative, qualify all associated detects as J- and, if any other calibration criteria have been exceeded for that compound, qualify all associated nondetects as UJ.</li> <li>4. If the %D criteria were not met for any compound at the end of a 12-h period, a new initial calibration was analyzed within 2 h of sample analysis, and the %D is positive, qualify all associated detects as J+.</li> <li>5. If the %D criteria were not met for any compound at the end of a 12-h period, a new initial calibration was analyzed within 2 h of sample analysis, and the %D is negative, qualify all associated detects as J- and, if any other calibration criteria have been exceeded for that compound, qualify all associated nondetects as UJ.</li> <li>6. If the %D criteria were not met for any compound at the end of a 12-h period and a new initial calibration was not analyzed within 2 h of sample analysis, qualify all sample data analyzed during that 12-h period as R.</li> </ol>
DF7d	The ICV and/or CCV were not analyzed at the appropriate method frequency. Note that EPA Contract Laboratory Program protocol DFLM01.1 requires that the GC/MS system be calibrated based upon a daily calibration check standard, whereas EPA Methods 1613B and 8290 require that the GC/MS system criteria of a daily calibration verification standard be met with each 12-h batch of samples measured and that response factors for native target compounds are derived from the 5-point initial calibration.
DF7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
DF8	The affected analyte is considered rejected because the ion abundances did not meet specifications. For identification of any compound, the ion abundance ratios must be within the limits specified in Attachment 4. If ion abundance ratio criteria were not met for any compound, qualify all associated results as R. If the RT of any compound is outside of the RT window, qualify all associated results as R.
DF8a	The ion abundance documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
DF8b	The GC column performance solution is used for defining the homologous GC RT windows and to document the chromatographic resolution. Column performance must be evaluated at the beginning of each analytical period and must meet method acceptance criteria (see Section 8.2 of EPA Method 8290) before sample analysis may begin. If GC column performance was not evaluated at the required frequency or if method criteria were not met, qualify all associated detects as J and all associated nondetects as UJ.



### Secondary Validation Reason Codes (continued)

Code	Description
DF8c	The DB-5 GC column generally used for PCDD and PCDF analyses does not adequately separate 2,3,7,8-TCDF from its closest eluting isomer. If 2,3,7,8-TCDF is detected in a sample, the result must be confirmed on a second column capable of separating 2,3,7,8-TCDF from all other TCDF homologues (as proven by successful analysis of the GC column performance column mix with <25% valley between 2,3,7,8-TCDF and its closest eluting isomer). If 2,3,7,8-TCDF was detected in a sample and the result was not confirmed on a second column with successful analysis of the GC column performance mix, qualify all associated detects as U.
DF9	The extraction/analytical holding time was exceeded by <2 times the published method for holding times. Regulations require that water samples be preserved by neutralizing any chlorine residual with 0.008% sodium thiosulfate and cooling to 4°C using a holding time of 7 d from day of collection to day of extraction of the sample. In addition, the maximum holding time of extracts is 40 d from day of extraction to day of injection of the extract. The holding time and preservation requirements of 2,3,7,8-TCDD and of other measured PCDD and PCDF isomers in nonwater matrixes have not been promulgated by EPA. Therefore, the data validator should use the holding time specified in EPA Method 8290, which specifies that all samples, except fish and adipose tissue samples, must be stored at 4°C in the dark, extracted within 30 d, and completely analyzed within 45 d of extraction. Fish and adipose samples must be stored at -20°C in the dark, extracted within 30 d, and completely analyzed within 45 d of collection (see Section 6.4 of EPA Method 8290). EPA Method 1613B does not set holding times for PCDD or PCDF isomers. The EPA method does state that water samples that contain a chlorine residual should be treated with 80 mg of sodium thiosulfate per liter of water, samples should be maintained at 4°C in the dark, and extracts should be analyzed within 40 d of extraction.
DF9a	The extraction/analytical holding time was exceeded by >2 times the published method for holding times.
DF12	The laboratory control sample (LCS) %R was <10%.
DF12a	The LCS %R was < the LAL but >10%. Follow the external laboratory limits.
DF12b	The LCS %R was > the UAL. Follow the external laboratory limits.
DF12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
DF12d	The MS/matrix spike duplicate (MS/MSD) %R was <10%.
DF12e	The MS/MSD %R was >10% but <70%.
DF12f	The MS/MSD %R was >130%.
DF12g	The MS/MSD RPD was >30%.
DF12h	The laboratory must spike all samples with the sample fortification solution and all sample extracts with recovery standard solution. The recovery acceptance criteria for each compound are 40% to 135%. The fortification sample %R was <10%.
DF12i	The laboratory must spike all samples with the sample fortification solution and all sample extracts with recovery standard solution. The recovery acceptance criteria for each compound are 40% to 135%. The fortification sample %R was <40% but >10%
DF12j	The laboratory must spike all samples with the sample fortification solution and all sample extracts with recovery standard solution. The recovery acceptance criteria for each compound are 40% to 135%. The fortification sample %R was >135%.
DF12k	The fortification sample documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.

### Secondary Validation Reason Codes (continued)

Code	Description
DF15	The affected analytes have elevated detection limits and may not meet project data quality objectives (DQOs) because the sample was diluted without any target analytes identified because of matrix interference. (Qualify nondetected results as rejected if the analytical laboratory cannot provide proof for matrix interference.)
DF15a	Sample cleanup was not performed. If run log notations, spectral data, and/or IS or labeled compound recoveries indicate interferences and extract cleanup was not performed, qualify all associated detects as J and all nondetects as UJ.
DF16	The instrument performance sample did not pass method acceptance criteria.
DF16c	The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.
DF19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can only be used under advisement by the project chemist.
DF88	Duplicate, dilution, or reanalysis.
DR0	The retention time criteria were not met.
DR0b	Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
DR3	The surrogate is < 10 %R, which indicates the potential for a severely low bias in the results. Follow the external laboratory limits.
DR3a	The surrogate is < the LAL but $\geq 10\%R$ , which indicates the potential for a low bias in the results. Follow the external laboratory limits.
DR3b	The surrogate %R value is > the UAL, which indicates a potential for a high bias in the results and a potential for false positive results. Follow the external laboratory limits.
DR3d	Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
DR4	The sample result is $\leq 5$ times the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
DR4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was > 5 times.
DR4d	The sample result is $\leq 5$ times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
DR4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
DR7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.
DR7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration correlation coefficient is less than 0.995.
DR7c	The ICV and/or CCV were recovered outside the method-specific limits.
DR7d	The ICV and/or CCV were not analyzed at the appropriate method frequency.
DR7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.

### Secondary Validation Reason Codes (continued)

Code	Description
DR9	The extraction/analytical holding time was > 1 times and ≤ 2 times the applicable holding time requirement.
DR9a	The extraction/analytical holding times were exceeded by more than 2 times the published method for holding times.
DR12	The LCS %R was less than 10%. Follow the external laboratory limits.
DR12a	The LCS %R was less than the LAL but greater than or equal to 10%. Follow the external laboratory limits.
DR12b	The LCS %R was greater than the UAL. Follow the external laboratory limits.
DR12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
DR12d	The MS/MSD %R was <10%.
DR12e	The MS/MSD %R was ≥10% but <70%.
DR12f	The MS/MSD %R was >130%.
DR12g	The MS/MSD RPD was >30%.
DR15	The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified because of matrix interference. (Qualify as R if the analytical laboratory cannot provide proof for matrix interference.)
DR19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can only be used under advisement by the project chemist.
DR88	Duplicate, dilution, or reanalysis.
GR0	The retention time criteria were not met.
GR0b	Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
GR3	The surrogate is <10%R, which indicates the potential for a severely low bias in the results. Follow the external laboratory limits.
GR3a	The surrogate is < the LAL but ≥10%R, which indicates the potential for a low bias in the results. Follow the external laboratory limits.
GR3b	The surrogate %R value is > the UAL, which indicates a potential for a high bias in the results and a potential for false positive results. Follow the external laboratory limits.
GR3d	Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
GR4	The sample result is ≤ 5 times the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
GR4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5 times.
GR4d	The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
GR4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
GR7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.

**Secondary Validation Reason Codes (continued)**

<b>Code</b>	<b>Description</b>
GR7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration correlation coefficient is less than 0.995.
GR7c	The ICV and/or CCV were recovered outside the method-specific limits.
GR7d	The ICV and/or CCV were not analyzed at the appropriate method frequency.
GR7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
GR9	The extraction/analytical holding time was > 1 times and ≤ 2 times the applicable holding time requirement.
GR9a	The extraction/analytical holding times were exceeded by more than 2 times the published method for holding times.
GR12	The LCS %R was less than 10%. Follow the external laboratory limits.
GR12a	The LCS %R was less than the LAL but greater than or equal to 10%. Follow the external laboratory limits.
GR12b	The LCS %R was greater than the UAL. Follow the external laboratory limits.
GR12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
GR12d	The MS/MSD %R was <10%.
GR12e	The MS/MSD %R was ≥10% but <70%.
GR12f	The MS/MSD %R was >130%.
GR12g	The MS/MSD RPD was >30%.
GR15	The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified because of matrix interference. (Qualify as R if the analytical laboratory cannot provide proof for matrix interference.)
GR19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can only be used under advisement by the project chemist.
GR88	Duplicate, dilution, or reanalysis.
H0	The analyte RT shifted by more than 0.05 min from the midlevel standard of the initial calibration. Reject nondetects for HPLC.
H0a	Analyte is positively confirmed but outside the RT window; however, spectral matches must be provided (HEXP–diode array detector).
H0b	Required RT documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
H12	The LCS %R was <10%. Follow external laboratory limits located within the associated data package.
H12a	The LCS %R was < the LAL but >10%. Follow external laboratory limits located within the associated data package.
H12b	The LCS %R was > the UAL. Follow the external laboratory limits located within the associated data package.
H12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.

### Secondary Validation Reason Codes (continued)

Code	Description
H15	The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified because of matrix interference. Qualify as R if the analytical laboratory cannot provide proof for cleanup or matrix interference.
H19	The Los Alamos National Laboratory (LANL) project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used by the project chemist or under advisement of the project chemist.
H3	The surrogate is <10%R, which indicates the potential for a severely low bias in the results. Follow external laboratory limits located within the associated data package.
H3a	The surrogate is < the LAL but ≥10%R, which indicates the potential for a low bias in the results. Follow the external laboratory limits located within the associated data package.
H3b	The surrogate %R value is > the UAL, which indicates a potential for a high bias in the results and a potential for false positive results. Follow the external laboratory limits located within the associated data package.
H3c	At least one surrogate is > the UAL and one surrogate is < the LAL, which indicates a greater than normal degree of uncertainty in the result. Follow external laboratory limits located within the associated data package.
H3d	Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
H4	The sample result is ≤5 times the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5 times.
H4d	The sample result is ≤5 times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
H4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
H7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.
H7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration correlation coefficient is <0.995.
H7c	The ICV and/or CCV were recovered outside the method-specific limits.
H7d	The ICV and/or CCV were not analyzed at the appropriate method frequency.
H7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
H8	The analyte was not confirmed on a second dissimilar column, or diode array spectrums do not match library.
H8a	The required second dissimilar column or diode array documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
H9	The extraction/analytical holding time was exceeded by < 2 times the published method for holding times.
H9a	The extraction/analytical holding time was exceeded by >2 times the published method for holding times.

### Secondary Validation Reason Codes (continued)

Code	Description
H9b	The affected analytes are regarded as rejected because the analytical holding time was exceeded.
H88	Duplicate, dilution, or reanalysis.
HE0	The IS retention time has shifted by >30 s.
HE0b	Required retention time documentation is missing. Data may not be acceptable for use. Contact the SMO and external laboratory for information.
HE1a	The quantitating IS area count is <25% of the expected value, which indicates increased potential for false negative results and other possible problems with sample quantitation. Follow the method-specific windows. Qualify data as R if the IS area count is <25%.
HE1b	If the IS was used for quantification and its area count is <70% but >25% of the average of that obtained from the calibration standards, qualify all associated detects as J+ and all associated nondetects as UJ.
HE1c	The IS area counts must not vary by >70% to 130% from the average of those obtained from the calibration standards or from the midlevel calibration standard. If the internal standard was used for quantification and its area count is >130% of the average of that obtained from the calibration standards, qualify all associated detects as J- and all associated nondetects as UJ.
HE1d	Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
HE3	The surrogate is <10% recovery, which indicates the potential for a severely low bias in the results. Follow the external laboratory limits. Qualify nondetected results as R and detected results as J-. Also, if an initial dilution was performed on any sample and surrogate recovery is <10% recovery and all results are nondetect, qualify all sample results as R.
HE3a	The surrogate is < the LAL but ≥10% recovery, which indicates the potential for a low bias in the results. Follow the external laboratory limits. Qualify nondetected results as UJ and detected results as J-. Also, if an initial dilution was performed on any sample and at least one surrogate recovery is < the LAL but ≥10%, or all surrogate recoveries are <10% and the results for one or more compounds are > the PQL, qualify nondetected results as UJ and detected results as J-.
HE3b	The surrogate %R value is > the UAL, which indicates the potential for a high bias in the results and a potential for false positive results. Follow the external laboratory limits.
HE3c	At least one surrogate is > the UAL and one surrogate is < the LAL, which indicates a greater than normal degree of uncertainty in the result. Follow the external laboratory limits.
HE3d	Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Sample and blank surrogate recoveries must be within limits specified by the laboratory. Surrogate compound recoveries shall be calculated using the procedure described in SW-846 EPA Method 8000B. Reported recoveries shall be accompanied by the applicable acceptance limits. Results from spiked or replicate QC samples that have surrogate recoveries <10% cannot be used to evaluate associated sample results.
HE4	The sample result is ≤ 5 times the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
HE4a	The affected analytes are considered estimates and biased high because this analyte was identified in the method blank but was > 5 times.
HE4d	The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, and equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.

### Secondary Validation Reason Codes (continued)

Code	Description
HE4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
HE4f	The absence of sample carryover must be determined and verified. If examination of the run logs indicates that any samples in the analytical run of interest required dilution and there is no documentation of a rinse or blank analysis immediately following the original undiluted analysis, then sample carryover may be suspected in the subsequent sample. If any target analyte found in the sample requiring dilution exceeded the high calibration standard and was also found in the following sample at a concentration < 5 times the PQL, qualify the result for that analyte in the second sample as R. If no data are available for the sample that required dilution, the laboratory has not documented that carryover was evaluated, and any analyte was also found in the following sample as a concentration <5 times the PQL, qualify the result for that analyte in the second sample as N.
HE7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit. The liquid chromatography/mass spectrometry/mass spectrometry (LC/MS/MS) instrument calibration shall be performed using a minimum of five (5) calibration standards. The lowest point of the curve must be at or below the reporting limit. If calibration curves are used, five (5) standards are required for a linear (first-order) calibration model, six (6) standards are required for a quadratic (second-order) model, and seven (7) standards are required for a third-order polynomial. Higher-order curves should not normally be used. If the laboratory uses a higher-order equation to establish a calibration curve, it should be evaluated for the appropriate application. If an insufficient number of calibration standards was used, the PQLs were incorrect, or all points were not analyzed within a 24-h period, qualify all associated detects as J and all associated nondetects as UJ.
HE7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration coefficient is <0.99.
HE7b	The affected analytes were analyzed with an RRF of <0.05 in the initial calibration and/or CCV. If the average RF for any target analyte is < the specified minimum RF, or <0.05 if no minimum is specified, qualify all associated detects as J. Qualify all associated nondetects as UJ if the RF is ≥0.01 or as R if the RF is <0.01.
HE7c	<p>The ICV and/or CCV were recovered outside the method limits. The %D between the ICV and CCV standard concentrations and their true values shall be calculated according to the formula in Attachment 4 and must be ≤20%. The evaluation of CCV data applies to all CCVs that bracket samples of interest. If the %D was reported with the wrong sign (e.g., +%D for negative bias), document the occurrence in the data validation report and assess any infractions using the correct sign.</p> <ol style="list-style-type: none"> <li>1. If the %D between a measured ICV and/or CCV concentration and its true value for any analyte is &gt;20%, qualify all associated detects as J+.</li> <li>2. If the %D between a measured ICV and/or CCV concentration and its true value for any analyte is &gt;20% but ≤40% and negative (low bias), qualify all associated detects as J- and, if any other calibration criteria have been exceeded for that compound, qualify all associated nondetects as UJ.</li> <li>3. If the %D between a measured ICV and/or CCV concentration and its true value for any analyte is &gt;40% but ≤60% and negative, qualify all associated detects as J and all associated nondetects as UJ.</li> <li>4. If the %D between a measured ICV and/or CCV concentration and its true value for any analyte is &gt;60% and is negative, qualify all associated detects as J- and all associated nondetects as R.</li> </ol>

### Secondary Validation Reason Codes (continued)

Code	Description
HE7d	<p>The ICV and/or CCV were not analyzed at the appropriate method frequency. An ICV standard is analyzed immediately following an initial calibration. For high-explosive analysis, the ICV standard analysis results are not required to be reported in the data package unless the samples in the SDG were analyzed after the initial calibration but before a CCV standard analysis was performed. In this case, the ICV %D is assessed according to the calibration verification criteria described below for the associated samples. If a CCV is analyzed before samples and ICV data are also reported in the package, both the ICV %D and the appropriate CCV %D are to be assessed as described below. If both ICV %D and CCV %D infractions occur, the worst infraction should be evaluated for result qualification. A CCV must be analyzed in the following instances:</p> <ul style="list-style-type: none"> <li>• at the beginning of each analytical run;</li> <li>• at least once every 10 samples; and</li> <li>• at the end of each analytical run.</li> </ul> <p>If multiple CCVs were analyzed to obtain a passing CCV, the calibration is not verified and the calibration frequency is not met. If the ICV and CCV standards were not analyzed at the proper frequency, or if either a required ICV or CCV was not analyzed, or if all target compounds were not present in any ICV or CCV standard, qualify all associated detects as J and all associated nondetects as UJ. If all required ICVs and CCVs were not analyzed, qualify all associated detects as J and all associated nondetects as R.</p>
HE7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
HE8a	The mass spectral documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
HE9	The extraction/analytical holding time was exceeded by < 2 times the published method for holding times.
HE9a	The extraction/analytical holding time was exceeded by > 2 times the published method for holding times.
HE12	An LCS should be analyzed at a frequency of once per data package, once per matrix, or once per 20 analytical samples, whichever is most frequent. The LCS must meet all sample acceptance criteria and all method-specific LCS requirements. The LCS for high explosives must meet laboratory-derived acceptance criteria. If surrogate and IS recovery acceptance criteria are not met for the LCS analysis, the LCS must be reanalyzed. If the recovery acceptance criteria are not reported in the analytical data package, recovery limits of 70% to 130% should be used as the criteria. If, based on professional judgment, the laboratory's internal acceptance criteria are excessively wide or acceptable recoveries are significantly biased, notify the program manager. The LCS %R was <10%. Qualify detected results as J- and not detected results as R.
HE12a	The LCS %R was < the LAL but >10%. Follow the external laboratory limits. Qualify detected results as J- and not detected results as UJ.
HE12b	The LCS %R was > the UAL. Follow the external laboratory limits. Qualify detected results as J+.
HE12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or the external laboratory for information.



**Secondary Validation Reason Codes (continued)**

Code	Description
HE12d	The MS/MSD %R was <10%. The MS/MSD data shall not be used to evaluate associated field sample results unless the MS/MSD sample was from the same client and of similar matrix. If the acceptance criteria are not reported, recovery limits are 70% to 130%. The MS and MSD %R must be within the limits unless the sample concentration is > 4 times the spike concentration. The MS and MSD results may be used in conjunction with other QC results to determine the need for qualification of the data. An effort to determine to what extent the results of the MS/MSD affect the associated data should first be made. This determination should be made considering the MS/MSD sample matrix, the surrogate and internal standard recoveries, and the LCS results. Professional judgment should be used to determine if MS/MSD failure warrants qualification of only the results for the failed compounds or if the compounds associated with the failed MS compound are affected. Generally, unless evidence exists to warrant qualification of other compounds, only the compounds in the MS spiking mixture shall be qualified. If the surrogate, internal standard, and LCS recoveries are within the required acceptance criteria and either the MS or MSD recovery for any target analyte is <10%, qualify results as R.
HE12e	If the MS/MSD %R was >10%, but <70%, qualify all detects as J and all nondetects as UJ.
HE12f	If the MS/MSD %R was >130%, qualify all associated detects as J+.
HE12g	If the MS/MSD RPD was >30%, and the acceptance criteria are not reported, recovery limits of 70% to 130% and an RPD of ≤30% should be used as the criteria. For solid and waste samples, it may be appropriate to accept an RPD of up to 40% based on professional judgment.
HE15	If the affected analytes are considered suspect because the sample was diluted without any target analytes identified because of matrix interference, qualify as R if the analytical laboratory cannot provide proof for matrix interference.
HE15a	The PQLs must be adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors that are not accounted for by the method. Samples must be diluted and reanalyzed when any analyte exceeds the calibration range. Data from the original sample analysis should be included when any sample requires dilution because of one or more analytes exceeding the calibration range. The original undiluted results document the actual MDLs for nondetects. If the PQLs have not been properly adjusted, request an amended report from the laboratory. If an initial dilution was required because of expected high concentrations of nontarget analytes or because one or more target analytes were expected to greatly exceed the instrument working range and the laboratory was not able to analyze the undiluted sample, note the dilution and elevated MDLs in the data validation report. If any target analyte exceeded the calibration range and the original undiluted sample result was reported, qualify all detects from the undiluted analysis that exceeded the calibration range as J. If any target analyte exceeded the calibration range and the sample was diluted and reanalyzed and the diluted sample data were reported, qualify all nondetects from the diluted analysis as UJ. If any target analyte exceeded the calibration range and the original undiluted sample analysis was not reported, request this information from the laboratory. If data from the original sample analysis are unavailable, refer to HEXP3 and HEXP3a for assessment of initially diluted samples with low surrogate recovery. The laboratory shall strive to make dilutions in such a way that the final concentration is measured in the midrange of the calibration curve and that results are not reported from measurements below the lowest concentration standard. If the instrument response (reported result/dilution factor) for a diluted sample is less than that of the lowest concentration standard, qualify all associated detects from the diluted analysis as J.

### Secondary Validation Reason Codes (continued)

Code	Description
HE16	The contract-required detection limit (CDRL) check standard (CRI) sample did not pass method-acceptance criteria. CRI analysis recoveries for high explosives analysis must be within limits specified by the Laboratory. If acceptance criteria are not reported, the recovery acceptance range shall be 70% to 130%. <ol style="list-style-type: none"> <li>1. If frequency criteria were not met, qualify all detects &lt; 5 times the PQL as J and all nondetects as UJ.</li> <li>2. If the recovery is &gt; the UAL, qualify all associated detects &lt; 5 times the PQL as J+.</li> <li>3. If the recovery is &lt; the LAL but ≥30%, qualify all associated detects &lt; 5 times the PQL as J- and all associated nondetects as UJ.</li> <li>4. If the recovery is &lt;30%, qualify all associated detects &lt; 5 times the PQL as J- and all associated nondetects as R.</li> </ol>
HE16c	The required CRI sample information is missing. Contact the SMO or the external laboratory for information.
HE19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used by the project chemist or under advisement of the project chemist.
HE88	Duplicate, dilution, or reanalysis.
HE99	Duplicate, dilution, or reanalysis.
I1	The sample result was reported as detected between the IDL and the estimated detection limit.
I1a	The quantitating IS area count is <10% for metals window in relation to the initial calibration blank. Follow method-specific windows.
I1b	The IS area count for the quantitating IS is <60% but >10% for metals window in relation to the initial calibration blank. Follow method-specific windows.
I1c	The IS area count for the quantitating IS is >125% in relation to the metals initial calibration blank. Follow method-specific windows.
I1d	Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
I2	Metals interference check sample %R value is <50%.
I2a	Metals interference check sample %R value is ≥50% and <80%.
I2b	Metals interference check sample %R value is >120%.
I2c	Metals interference check sample was not analyzed with the samples.
I4	The sample result is ≤ 5 times the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
I4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was >5 times.
I4b	The sample result is ≤ 5 times the concentration of the related analyte in the instrument blank and continuing calibration blank (CCB), which indicates the reported detection is considered indistinguishable from contamination in the blank.
I4c	CCBs were not analyzed at the appropriate method frequency.
I4d	The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.

### Secondary Validation Reason Codes (continued)

Code	Description
14e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
I6	The associated MS recovery was <10%. Follow the external laboratory limits located within the associated data package.
I6a	The associated MS recovery was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.
I6b	The associated MS recovery was > the UAL. Follow the external laboratory limits located within the associated data package.
I6c	Required MS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If LCS information is present, do not qualify as R. Qualify data based on LCS information.
I7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.
I7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration correlation coefficient is <0.995.
I7c	The ICV and/or CCV were recovered outside the method-specific limits.
I7d	The ICV and/or CCV were not analyzed at the appropriate method frequency.
I7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
I9	The extraction holding time was exceeded by < 2 times the published method for holding times.
I9a	The extraction holding time was exceeded by > 2 times the published method for holding times.
I9b	The affected analytes are regarded as rejected because the analytical holding time was exceeded.
I10a	The sample and the duplicate sample results were $\geq 5$ times the RL, and the duplicate RPD was > 20% for water samples and > 35% for soil samples.
I10d	The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
I12	The LCS %R was <10%. Follow the external laboratory limits located within the associated data package.
I12a	The LCS %R was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.
I12b	The LCS %R was > the UAL. Follow the external laboratory limits located within the associated data package.
I12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Do not qualify as R if MS/MSD information is present. Qualify according to MS/MSD criteria.
I16	The instrument performance sample did not pass the method acceptance criteria.
I16a	The mass calibration is not within 0.1 atomic mass unit, or %RSD exceeds 5% for any isotope (Be, Mg, Co, In, Pb).
I16b	Samples were analyzed outside specific method tune time criteria.
I16c	The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.

### Secondary Validation Reason Codes (continued)

Code	Description
I18	Serial dilution sample RPD was >10% and the sample results was > 50 times the MDL (> 100 times the MDL for inductively coupled plasma mass spectrometry). Qualify ONLY the sample used for the serial dilution.
I18a	Serial dilution sample was not analyzed with the samples.
I19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used by the project chemist or under advisement of the project chemist.
I88	Duplicate, dilution, or reanalysis.
J_LAB	Qualification of data via data validation did not occur based on QC requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.
NQ	Qualification of data via data validation did not occur based on QC requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.
P0	The analyte RT shifted by >0.05 min from the midlevel standard of the initial calibration.
P0b	Required RT documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
P3	The surrogate is <10%R, which indicates the potential for a severely low bias in the results. Follow the external laboratory limits located within the associated data package.
P3a	The surrogate is < the LAL but ≥10%R, which indicates the potential for a low bias in the results. Follow the external laboratory limits.
P3b	The surrogate %R value is > the UAL, which indicates a potential for a high bias in the results and a potential for false positive results. Follow the external laboratory limits located within the associated data package.
P3c	At least one surrogate is > the UAL and one surrogate is < the LAL, which indicates a greater than normal degree of uncertainty in the result. Follow the external laboratory limits located within the associated data package.
P3d	Required surrogate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
P4	The sample result is ≤ 5 times the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
P4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was > 5 times.
P4b	The sample result is ≤ 5 times the concentration of the related analyte in the instrument and CCB, which indicates the reported detection is considered indistinguishable from contamination in the blank.
P4d	The sample result is ≤ 5 times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
P4e	Required blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
P7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.
P7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration correlation coefficient is <0.995.

### Secondary Validation Reason Codes (continued)

Code	Description
P7c	The ICV and/or CCV were recovered outside the method-specific limits.
P7d	The ICV and/or CCV were not analyzed at the appropriate method frequency.
P7e	The multicomponent standard was not analyzed within 72 h of the initial analysis.
P7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
P8	The analyte was not confirmed on a second dissimilar column.
P8a	The required dissimilar column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
P9	The extraction/analytical holding time was exceeded by < 2 times the published method for holding times.
P9a	The extraction/analytical holding time was exceeded by > 2 times the published method for holding times.
P9b	The affected analytes are regarded as rejected because the analytical holding time was exceeded.
P12	The LCS %R was <10%. Follow the external laboratory limits located within the associated data package.
P12a	The LCS %R was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.
P12b	The LCS %R was > the UAL. Follow the external laboratory limits located within the associated data package.
P12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information located within the associated data package.
P13	The breakdown criteria have been exceeded. This can cause low bias in reported results. If compound is detected, qualify as J-. If compounds are not present, but breakdown products are present, qualify as R. If compounds and no breakdown products are present, qualify as UJ (4,4'-DDT and endrin).
P13a	The breakdown criteria have been exceeded. This can cause high bias in the reported results and potential false positive results for the breakdown products endrin ketone, endrin aldehyde, DDD, and DDE (dichlorodiphenyldichloroethylene).
P13b	The breakdown documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
P15	The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified because of matrix interference. Qualify as R if the analytical laboratory cannot provide proof for cleanup or matrix interference.
P19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used by the project chemist or under advisement of the project chemist.
P88	Duplicate, dilution, or reanalysis.
PE0	The perchlorate RRT is outside the acceptance range of 0.98 to 1.02 s.
PE0b	Required RT documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.

### Secondary Validation Reason Codes (continued)

Code	Description
PE1a	This IS area count is <25% of the expected value. If the IS is used only as a RT check (perchlorate analysis), the RRT of the IS must fall within the acceptance range of 0.98 to 1.02, and the IS recovery should be evaluated using the surrogate criteria. If recovery acceptance limits are not reported in the data package, recovery should be evaluated based on reported MS acceptance limits.
PE1b	If the IS area count is <70% but >25% of the average of that obtained from the calibration standards, qualify all associated detects as J and all associated nondetects as UJ. If the IS is used only as a RT check (perchlorate analysis), the RRT of the IS must fall within the acceptance range of 0.98 to 1.02, and the IS recovery should be evaluated using the surrogate criteria. If recovery acceptance limits are not reported in the data package, recovery should be evaluated based on reported MS acceptance limits.
PE1c	If the IS is >130% of the average of that obtained from the calibration standards, qualify all associated detects as J and all associated nondetects as UJ. If the IS is used only as a RT check (perchlorate analysis), the RRT of the IS must fall within the acceptance range of 0.98 to 1.02, and the IS recovery should be evaluated using the surrogate criteria. If recovery acceptance limits are not reported in the data package, recovery should be evaluated based on reported MS acceptance limits.
PE1d	Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
PE4	The sample result is $\leq 5$ times the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
PE4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5$ times.
PE4d	The sample result is $\leq 5$ times the concentration of the related analyte in the trip blank, rinsate blank, and equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
PE4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
PE7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit. LC/MS/MS instrument calibration shall be performed using a minimum of five (5) calibration standards. The lowest point of the curve must be at or below the reporting limit. If calibration curves are used, five (5) standards are required for a linear (first-order) calibration model, six (6) standards are required for a quadratic (second-order) model, and seven (7) standards are required for a third-order polynomial. Higher-order curves should not normally be used. If the laboratory uses a higher-order equation to establish a calibration curve, it should be evaluated for the appropriate application. If an insufficient number of calibration standards was used, the PQLs were incorrect, or all points were not analyzed within a 24-h period, qualify all associated detects as J and all associated nondetects as UJ.
PE7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration coefficient is $<0.99$ .

### Secondary Validation Reason Codes (continued)

Code	Description
PE7c	<p>The ICV and/or CCV were recovered outside the method limits. The %D between the ICV and CCV standard concentrations and their true values must be <math>\leq 15\%</math>. The evaluation of CCV data applies to all CCVs that bracket samples of interest. If the %D was reported with the wrong sign (e.g., +%D for negative bias), document the occurrence in the data validation report and assess any infractions using the correct sign.</p> <ol style="list-style-type: none"> <li>1. If the %D between a measured ICV and/or CCV concentration and its true value for any analyte is <math>&gt; 15\%</math>, qualify all associated detects as J+.</li> <li>2. If the %D between a measured ICV and/or CCV concentration and its true value for any analyte is <math>&gt; 15\%</math> but <math>\leq 40\%</math> and negative (low bias), qualify all associated detects as J- and, if any other calibration criteria have been exceeded for that compound, qualify all associated nondetects as UJ.</li> <li>3. If the %D between a measured ICV and/or CCV concentration and its true value for any analyte is <math>&gt; 40\%</math> but <math>\leq 60\%</math> and negative, qualify all associated detects as J- and all associated nondetects as UJ.</li> <li>4. If the %D between a measured ICV and/or CCV concentration and its true value for any analyte is <math>&gt; 60\%</math> and is negative, qualify all associated detects as J- and all associated nondetects as R.</li> </ol>
PE7d	<p>The ICV and/or CCV were not analyzed at the appropriate method frequency. An ICV standard is analyzed immediately following an initial calibration. The ICV standard analysis results are not required to be reported in the data package unless the samples in the SDG were analyzed after the initial calibration but before a CCV standard analysis was performed. In this case, the ICV %D is assessed according to the calibration verification criteria described below for the associated samples. If a CCV is analyzed before samples and ICV data are also reported in the package, both the ICV %D and the appropriate CCV %D are to be assessed as described below. If both %D and CCV %D infractions occur, the worst infraction should be evaluated for result qualification. A CCV must be analyzed in the following instances:</p> <ul style="list-style-type: none"> <li>• at the beginning of each analytical run;</li> <li>• at least once every 10 samples; and</li> <li>• at the end of each analytical run.</li> </ul> <p>If multiple CCVs were analyzed to obtain a passing CCV, the calibration is not verified and the calibration frequency is not met. If the ICV and CCV standards were not analyzed at the proper frequency, or if either a required ICV or CCV was not analyzed, or if all target compounds were not present in any ICV or CCV standard, qualify all associated detects as J and all associated nondetects as UJ. If all required ICVs and CCVs were not analyzed, qualify all associated detects as J and all associated nondetects as R.</p>
PE7f	<p>Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.</p>
PE8	<p>The affected analyte is considered not detected because ion abundance ratios did not meet specifications. The natural isotopic abundances for the chlorine isotopes give a <math>^{35}\text{Cl}/^{37}\text{Cl}</math> ratio of approximately 3.08. Laboratories must statistically derive isotope ratio acceptance criteria to be used as an additional confirmation of analyte identity. When the laboratory does not specify acceptance criteria, the mean of the ratio population shall not deviate by more than 10% from the 3.08 theoretical value and the standard deviation shall not significantly exceed 0.2. Between the MDL and the PQL, the individual sample isotope acceptance limits shall be near the population mean <math>\pm 20\%</math> (approximately 3 sigma). Above the PQL, the individual sample isotope ratio acceptance limits shall be near the population mean <math>\pm 15\%</math> (approximately 2 sigma). When isotope ratio acceptance criteria are not met, the laboratory must provide supporting data and explanatory case narrative comments in the data package. If the isotope ratios were not reported, calculate the ratio if the raw data were supplied or request an amended report from the laboratory if the raw data were not supplied. If an isotope ratio is outside the acceptance limits, qualify the detect results as J or R based on professional judgment.</p>
PE8a	<p>The ion ratio documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.</p>

### Secondary Validation Reason Codes (continued)

Code	Description
PE9	The extraction/analytical holding time was exceeded by < 2 times the published method for holding times.
PE9a	The extraction/analytical holding time was exceeded by < 2 times the published method for holding times.
PE12	An LCS should be analyzed at a frequency of once per data package, once per matrix, or once per 20 analytical samples, whichever is most frequent. The LCS must meet all sample acceptance criteria and all method-specific LCS requirements. The LCS for perchlorate must meet laboratory-derived acceptance criteria. If IS recovery acceptance criteria are not met for the LCS analysis, the LCS must be reanalyzed. If the recovery acceptance criteria are not reported in the analytical data package, recovery limits of 85% to 115% (perchlorate limits) should be used as the criteria. The LCS percent recovery was <10%. Qualify detected results as J- and not detected results as R.
PE12a	The LCS percent recovery was < the LAL but >10%. Follow the external laboratory limits. Qualify detected results as J- and not detected results as UJ.
PE12b	The LCS percent recovery was > the UAL. Follow the external laboratory limits. Qualify detected results as J+.
PE12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
PE12d	The MS/MSD %R was <10%. The MS/MSD data shall not be used to evaluate associated field sample results unless the MS/MSD sample was from the same client and of similar matrix. For perchlorate, the MS/MSD recovery acceptance criteria are 75% to 125% with an RPD of ≤20%. For solid and waste samples, it may be appropriate to accept an RPD of up to 30% based on professional judgment. The MS and MSD %R must be within the limits unless the sample concentration is > 4 times the spike concentration. The MS and MSD results may be used in conjunction with other QC results to determine the need for qualification of the data. An effort to determine to what extent the results of the MS/MSD affect the associated data should first be made. This determination should be made considering the MS/MSD sample matrix, the surrogate and internal standard recoveries, and the LCS results. Professional judgment should be used to determine if MS/MSD failure warrants qualification of only the results for the failed compounds or if results for all compounds associated with the failed MS compound are affected. Generally, unless evidence exists to warrant qualification of other compounds, only the compounds in the MS spiking mixture shall be qualified. If the surrogate, internal standard, and LCS recoveries are within the required acceptance criteria and either the MS or MSD recovery for any target analyte is <10%, qualify results as R.
PE12e	The MS/MSD %R was >10% but <75%. Qualify all detects as J and all nondetects as UJ.
PE12f	The MS/MSD %R was >125%. Qualify all associated detects as J+.
PE12g	The MS/MSD RPD was >20%. If the acceptance criteria are not reported, recovery limits of 75% to 125% and an RPD of 20% should be used as the criteria. For solid and waste samples, it may be appropriate to accept an RPD of up to 30% based on professional judgment.
PE15	The affected analytes are considered suspect because the sample was diluted without any target analytes identified because of matrix interference. Qualify as R if the analytical laboratory cannot provide proof for matrix interference.



### Secondary Validation Reason Codes (continued)

Code	Description
PE15a	The sample was diluted because target analytes were greater than the initial verification calibration. The PQLs must be adjusted to reflect all sample dilutions, concentrations, splits, cleanup activities, and dry weight factors that are not accounted for by the method. Samples must be diluted and reanalyzed when any analyte exceeds the calibration range. Data from the original sample analysis should be included when any sample requires dilution because of one or more analytes exceeding the calibration range. The original undiluted results document the actual MDLs for nondetects. If the PQLs have not been properly adjusted, request an amended report from the laboratory. If an initial dilution was required because of expected high concentrations of nontarget analytes or because one or more target analytes were expected to greatly exceed the instrument working range and the laboratory was not able to analyze the undiluted sample, note the dilution and elevated MDLs in the data validation report. If any target analyte exceeded the calibration range and the original undiluted sample result was reported, qualify all detects from the undiluted analysis that exceeded the calibration range as J. If any target analyte exceeded the calibration range and the sample was diluted and reanalyzed and the diluted sample data were reported, qualify all nondetects from the diluted analysis as UJ. If any target analyte exceeded the calibration range and the original undiluted sample analysis was not reported, request this information from the laboratory. The laboratory shall strive to make dilutions in such a way that the final concentration is measured in the midrange of the calibration curve and that results are not reported from measurements below the lowest concentration standard. If the instrument response (reported result/dilution factor) for a diluted sample is less than that of the lowest concentration standard, qualify all associated detects from the diluted analysis as J.
PE16	The CRI sample did not pass method-acceptance criteria. CRI analysis recoveries for perchlorate analysis must be within limits specified by the Laboratory. If acceptance criteria are not reported, the recovery acceptance range shall be 70% to 130%. <ol style="list-style-type: none"> <li>1. If frequency criteria were not met, qualify all detects &lt; 5 times the PQL as J and all nondetects as UJ.</li> <li>2. If the recovery is &gt; the UAL, qualify all associated detects &lt; 5 times the PQL as J+.</li> <li>3. If the recovery is &lt; the LAL but ≥30%, qualify all associated detects &lt; 5 times the PQL as J- and all associated nondetects as UJ.</li> <li>4. If the recovery is &lt;30%, qualify all associated detects &lt; 5 times the PQL as J- and all associated nondetects as R.</li> </ol>
PE16a	The interference check sample recovery was not within ±20% of the known value. The laboratory shall analyze an interference check sample from a matrix containing 500 ppm each of chloride, sulfate, carbonate, and bicarbonate in every batch. The concentration of this standard will be at the PQL. To determine that perchlorate is adequately isolated and recovered under the specific conditions used, this standard should recover within ±20% of the known value. If frequency criteria were not met, note the deficiency in the data validation report. If the recovery is not within ±20% of the known value, note the deficiency in the data validation report. Qualify not detected results as UJ and detected results as J.
PE16c	The required CRI sample information is missing. Contact the SMO or external laboratory for information.
PE19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used by the project chemist or under advisement of the project chemist.
PE88	Duplicate, dilution, or reanalysis.
R3	The tracer is <10%R. Follow the external laboratory limits located within the associated data package. Tracer %R is not applicable for gamma spectroscopy.
R3a	The tracer is < the LAL but ≥10%R. Follow the external laboratory limits located within the associated data package. Tracer %R is not applicable for gamma spectroscopy.
R3b	The tracer %R value is > the UAL. Follow the external laboratory limits located within the associated data package. Tracer %R is not applicable for gamma spectroscopy.

### Secondary Validation Reason Codes (continued)

Code	Description
R3d	Required tracer information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. Tracer% R is not applicable for gamma spectroscopy.
R4	The sample result is $\leq 5$ times the concentration of the related analyte in the method blank.
R4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was $> 5$ times.
R4d	The sample result is $\leq 5$ times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank.
R4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
R5	The results for the affected analytes are considered not detected (U) because the associated sample concentration was less than or equal to the minimum detectable concentration (MDC).
R5a	The analyte should be regarded as rejected because spectral interferences prevent positive identification of the analytes.
R5b	The MDC and/or total propagated uncertainty (TPU) documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
R6	The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing.
R6a	The associated MS recovery was $< 10\%$ . Follow the external laboratory limits. MS/MSD is not applicable to gamma spectroscopy.
R6b	The associated MS recovery was above the UAL. Follow the external laboratory limits. MS/MSD is not applicable to gamma spectroscopy.
R6c	Required MS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information. If LCS information is present, do not qualify as R. Qualify data based on LCS information. MS/MSD is not applicable to gamma spectroscopy.
R9	The holding time was $> 1$ and $\leq 2$ times the applicable holding time requirement.
R9a	The holding time was $> 2$ times the applicable holding time requirement.
R10	Associated duplicate sample has a duplicate error ratio or relative error ratio greater than the analytical laboratory's acceptance limits.
R10d	The duplicate sample was not prepared and/or analyzed with the samples for unspecified reasons. The duplicate information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
R11	The results for the affected analytes should be regarded as not detected (U) because the associated sample concentration was less than 3 times the 1 sigma TPU.
R12	The LCS %R was $< 10\%$ . Follow the external laboratory limits located within the associated data package.
R12a	The LCS %R was $<$ the LAL but $> 10\%$ . Follow the external laboratory limits located within the associated data package.
R12b	The LCS %R was $>$ the UAL. Follow the external laboratory limits located within the associated data package.
R12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
R19	The LANL project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used by the LANL project chemist or under advisement of the LANL project chemist.
R88	Duplicate, dilution, or reanalysis.

### Secondary Validation Reason Codes (continued)

Code	Description
SV0	The IS RT has shifted by >30 s.
SV0a	Analyte is positively confirmed but outside the IS retention window; however, spectral matches must be provided.
SV0b	Required RT documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
SV1a	The quantitating IS area count is <10% of the expected value. Follow the method-specific windows.
SV1b	The IS area count for the quantitating IS is <50% but >10% for the organics window relative to the previous continuing calibration. Follow the method-specific windows.
SV1c	The IS area count for the quantitating IS is >200% of the area count for the previous organic continuing calibration. Follow the method-specific windows.
SV1d	Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
SV3	The surrogate is <10%R, which indicates the potential for a severely low bias in the results. Follow the external laboratory limits located within the associated data package.
SV3a	The surrogate is < the LAL but $\geq 10\%R$ , which indicates the potential for a low bias in the results. Follow the external laboratory limits.
SV3b	The surrogate %R value is > the UAL, which indicates a potential for a high bias in the results and a potential for false positive results. Follow the external laboratory limits located within the associated data package.
SV3c	At least one surrogate is > the UAL and one surrogate is < the LAL, which indicates a greater than normal degree of uncertainty in the result. Follow the external laboratory limits located within the associated data package.
SV3d	Required surrogate/tracer information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
SV4	The sample result is $\leq 5$ times (10 times for common organic laboratory contaminants) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was > 5 times (10 times for common laboratory contaminants).
SV4d	The sample result is $\leq 5$ times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
SV4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
SV7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.
SV7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration correlation coefficient is <0.995.
SV7b	The affected analytes were analyzed with an RRF of <0.05 in the initial calibration and/or CCV.
SV7c	The ICV and/or CCV were recovered outside the method-specific limits.
SV7d	The ICV and/or CCV were not analyzed at the appropriate method frequency.

### Secondary Validation Reason Codes (continued)

Code	Description
SV7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
SV8	The affected analyte is considered not detected because mass spectrum did not meet specifications.
SV8a	The mass spectrum column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
SV9	The extraction holding time is exceeded by < 2 times the published method for holding times.
SV9a	The extraction holding time was exceeded by > 2 times the published method for holding times.
SV9b	The affected analytes are regarded as rejected because the analytical holding time was exceeded.
SV12	The LCS %R was <10%. Follow the external laboratory limits located within the associated data package.
SV12a	The LCS %R was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.
SV12b	The LCS %R was > the UAL. Follow the external laboratory limits located within the associated data package.
SV12c	The LCS documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information located within the associated data package.
SV15	The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified because of matrix interference. Qualify as R if the analytical laboratory cannot provide proof for matrix interference.
SV16	The instrument performance sample did not pass the method acceptance criteria.
SV16b	Samples were analyzed outside specific method tune time criteria.
SV16c	The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.
SV19	The project chemist identified quality deficiencies in the reported data that requires further qualification. This code can ONLY be used by the project chemist or under advisement of the project chemist.
SV88	Duplicate, dilution, or reanalysis.
U_LAB	Qualification of data via data validation did not occur based on QC requirements in this procedure. Adhere to the external laboratory qualifiers found within the Form I analytical data summary sheets generated by the external laboratory.
V0	The IS RT has shifted by >30 s.
V0a	Analyte is positively confirmed but outside the IS retention window; however, spectral matches must be provided.
V0b	Required RT documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
V1a	The quantitating IS area count is <10% of the expected value. Follow the method-specific windows.
V1b	The IS area count for the quantitating IS is <50% but >10% for the organics window relative to the previous continuing calibration. Follow the method-specific windows.

### Secondary Validation Reason Codes (continued)

Code	Description
V1c	The IS area count for the quantitating IS is >200% of the area count for the previous organic continuing calibration. Follow the method-specific windows.
V1d	Required IS information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
V3	The surrogate is <10%R, which indicates the potential for a severely low bias in the results. Follow the external laboratory limits located within the associated data package.
V3a	The surrogate is < the LAL but $\geq 10\%R$ , which indicates the potential for a low bias in the results. Follow the external laboratory limits.
V3b	The surrogate %R value is > the UAL, which indicates a potential for a high bias in the results and a potential for false positive results. Follow the external laboratory limits located within the associated data package.
V3c	At least one surrogate is > the UAL and one surrogate is < the LAL, which indicates a greater than normal degree of uncertainty in the result. Follow the external laboratory limits located within the associated data package.
V3d	Required surrogate/tracer information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
V4	The sample result is $\leq 5$ times (10 times for common organic laboratory contaminants) the concentration of the related analyte in the method blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4a	The affected analytes are considered estimated and biased high because this analyte was identified in the method blank but was > 5 times (10 times for common laboratory contaminants).
V4d	The sample result is $\leq 5$ times the concentration of the related analyte in the trip blank, rinsate blank, or equipment blank, which indicates the reported detection is considered indistinguishable from contamination in the blank.
V4e	Required method blank information is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
V7	The affected results were not analyzed with a valid 5-point calibration curve and/or a standard at the reporting limit.
V7a	The affected analytes were analyzed with an initial calibration curve that exceeded the %RSD criteria, and/or the associated multipoint calibration correlation coefficient is <0.995.
V7b	The affected analytes were analyzed with an RRF of < 0.05 in the initial calibration and/or CCV.
V7c	The ICV and/or CCV were recovered outside the method-specific limits.
V7d	The ICV and/or CCV were not analyzed at the appropriate method frequency.
V7f	Required calibration information is missing or samples were analyzed on an expired calibration. Contact the SMO or external laboratory for information.
V8	The affected analyte is considered not detected because mass spectrum did not meet specifications.
V8a	The mass spectrum column documentation is missing. Data may not be acceptable for use. Contact the SMO or external laboratory for information.
V9	The extraction/analytical holding time is exceeded by < 2 times the published method for holding times.
V9a	The extraction/analytical holding time was exceeded by >2 times the published method for holding times.

**Secondary Validation Reason Codes (continued)**

Code	Description
V12	The LCS %R was <10%. Follow the external laboratory limits located within the associated data package.
V12a	The LCS %R was < the LAL but >10%. Follow the external laboratory limits located within the associated data package.
V12b	The LCS %R was > the UAL. Follow the external laboratory limits located within the associated data package.
V12c	The IS area count for the quantitating IS is >200% of the area count for the previous organic continuing calibration. Follow the method-specific windows.
V15	The affected analytes have elevated detection limits and may not meet project DQOs because the sample was diluted without any target analytes identified because of matrix interference. Qualify as R if the analytical laboratory cannot provide proof for matrix interference.
V16	The instrument performance sample did not pass the method acceptance criteria.
V16b	Samples were analyzed outside specific method tune time criteria.
V16c	The required instrument performance sample information is missing. Contact the SMO or external laboratory for information.
V19	The project chemist identified quality deficiencies in the reported data that require further qualification. This code can ONLY be used under advisement by the project chemist.
V88	Duplicate, dilution, or reanalysis.

**Table D-1**  
**Previously Unreported TA-54 Monitoring Group Groundwater Tritium**

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	Uncertainty	MDA	MDL	Unit	Analytical Method Code	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code
Regional	R-52	MULTI	1035.2	10/12/10	H-3	UF	RE	—*	<	1.12	0.70	2.2351	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-52	MULTI	1035.2	01/13/11	H-3	UF	RE	—	—	5.97	1.15	2.13931	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-52	MULTI	1035.2	07/18/11	H-3	UF	CS	—	<	0.61	0.80	2.61826	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-52	MULTI	1107	10/12/10	H-3	UF	RE	—	<	2.78	0.73	1.85194	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	U	R4
Regional	R-52	MULTI	1107	01/13/11	H-3	UF	RE	—	<	1.69	0.67	1.94773	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-52	MULTI	1107	07/18/11	H-3	UF	CS	—	<	0.35	0.70	2.36282	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-37	MULTI	929.3	12/18/09	H-3	UF	RE	—	—	23.03	3.58	2.03	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-37	MULTI	929.3	06/16/10	H-3	UF	RE	—	—	39.53	6.07	2.58633	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-37	MULTI	929.3	10/12/10	H-3	UF	RE	—	—	54.22	8.24	2.39475	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-37	MULTI	929.3	01/21/11	H-3	UF	RE	FD	—	27.33	4.15	1.37299	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-37	MULTI	929.3	01/21/11	H-3	UF	RE	—	—	44.89	6.86	2.5544	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-37	MULTI	929.3	07/19/11	H-3	UF	CS	—	—	9.77	1.66	2.13931	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-37	MULTI	1026	12/18/09	H-3	UF	RE	—	—	25.54	3.93	1.77	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-37	MULTI	1026	10/14/10	H-3	UF	RE	FD	<	0.80	0.64	2.04352	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-37	MULTI	1026	10/14/10	H-3	UF	RE	—	<	1.95	0.77	2.33089	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-37	MULTI	1026	01/25/11	H-3	UF	RE	—	<	-0.10	0.61	2.07545	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-37	MULTI	1026	07/13/11	H-3	UF	CS	—	<	-1.44	0.93	3.12914	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-38	SINGLE	821.2	12/17/09	H-3	UF	RE	—	<	0.42	0.58	1.9	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-38	SINGLE	821.2	10/11/10	H-3	UF	RE	—	<	2.94	0.89	2.49054	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	U	R4
Regional	R-38	SINGLE	821.2	01/27/11	H-3	UF	RE	FD	<	-0.80	0.51	1.78808	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-38	SINGLE	821.2	01/27/11	H-3	UF	RE	—	<	-0.51	0.45	1.56457	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-38	SINGLE	821.2	07/26/11	H-3	UF	CS	FD	<	-1.28	0.64	2.20317	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-38	SINGLE	821.2	07/26/11	H-3	UF	CS	—	<	0.03	0.67	2.33089	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-53	MULTI	849.2	10/12/10	H-3	UF	RE	—	<	4.28	0.96	2.17124	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	U	R4
Regional	R-53	MULTI	849.2	01/14/11	H-3	UF	RE	—	—	8.97233	1.53264	2.17124	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-53	MULTI	849.2	07/14/11	H-3	UF	CS	—	<	-0.38316	0.70246	2.36282	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5

Table D-1 (continued)

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	Uncertainty	MDA	MDL	Unit	Analytical Method Code	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code
Regional	R-53	MULTI	959.7	10/12/10	H-3	UF	RE	—	<	3.92739	0.89404	2.10738	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	U	R4
Regional	R-53	MULTI	959.7	01/13/11	H-3	UF	RE	PEB	—	7.12039	1.30913	2.29896	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-53	MULTI	959.7	01/13/11	H-3	UF	RE	FD	<	1.47	0.64	1.88387	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-53	MULTI	959.7	01/13/11	H-3	UF	RE	—	<	0.96	0.67	2.20317	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-53	MULTI	959.7	07/14/11	H-3	UF	CS	FD	<	-1.66	0.89	3.00142	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-53	MULTI	959.7	07/14/11	H-3	UF	CS	—	<	-0.83	0.64	2.13931	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-53	MULTI	959.7	07/14/11	H-3	UF	CS	PEB	<	-1.37	0.83	2.84177	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-56	MULTI	945	08/19/10	H-3	UF	RE	—	<	1.40492	0.60667	1.82001	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-56	MULTI	945	02/03/11	H-3	UF	RE	—	—	2.04352	0.57474	1.50071	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-56	MULTI	945	07/20/11	H-3	UF	CS	—	<	-0.44702	0.57474	1.97966	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-56	MULTI	1046.6	08/13/10	H-3	UF	RE	—	<	0.9579	0.57474	1.88387	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-56	MULTI	1046.6	02/07/11	H-3	UF	RE	—	<	-0.28737	0.51088	1.75615	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-56	MULTI	1046.6	07/20/11	H-3	UF	CS	—	<	0.03	0.64	2.20317	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-21	SINGLE	888.8	06/11/10	H-3	UF	RE	—	<	-1.44	0.67	2.26703	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-21	SINGLE	888.8	01/27/11	H-3	UF	RE	—	<	-0.51	0.48	1.62843	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-21	SINGLE	888.8	07/21/11	H-3	UF	CS	—	<	-0.86	0.64	2.13931	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-41	MULTI	965.3	06/09/10	H-3	UF	RE	FD	<	-0.32	0.61	2.04352	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-41	MULTI	965.3	06/09/10	H-3	UF	RE	—	<	-0.96	0.61	2.10738	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-41	MULTI	965.3	01/12/11	H-3	UF	RE	—	<	1.79	0.70	2.07545	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-41	MULTI	965.3	07/15/11	H-3	UF	CS	—	<	0.13	0.73	2.45861	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-55i	SINGLE	510	07/18/11	H-3	UF	CS	—	<	-1.34	0.89	3.00142	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-55	MULTI	860	02/07/11	H-3	UF	RE	—	<	-0.26	0.48	1.66036	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-55	MULTI	860	07/15/11	H-3	UF	CS	—	<	-0.42	0.67	2.26703	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-55	MULTI	994.4	02/01/11	H-3	UF	RE	—	<	-0.80	0.48	1.5965	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-55	MULTI	994.4	07/14/11	H-3	UF	CS	—	<	-0.54	0.64	2.13931	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-40	MULTI	649.7	07/28/10	H-3	UF	RE	—	<	1.76	0.67	1.97966	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-40	MULTI	649.7	10/20/10	H-3	UF	RE	—	<	0.80	0.67	2.17124	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5



Table D-1 (continued)

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	Uncertainty	MDA	MDL	Unit	Analytical Method Code	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code
Intermediate	R-40	MULTI	751.6	07/28/10	H-3	UF	RE	—	<	-0.06	0.61	2.01159	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-40	MULTI	751.6	10/20/10	H-3	UF	RE	—	<	-0.10	0.70	2.42668	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-40	MULTI	751.6	01/21/11	H-3	UF	RE	—	<	1.85	0.64	1.85194	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-23i	MULTI	400.3	06/15/10	H-3	UF	RE	—	—	94.10	14.14	1.94773	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-23i	MULTI	400.3	10/21/10	H-3	UF	RE	—	—	105.27	15.87	2.39475	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-23i	MULTI	470.2	06/17/10	H-3	UF	RE	—	—	21.49	3.35	1.66036	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-23i	MULTI	470.2	10/18/10	H-3	UF	RE	—	—	30.37	4.69	2.42668	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-23i	MULTI	524	06/16/10	H-3	UF	RE	—	—	25.74	3.96	2.13931	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-23i	MULTI	524	10/18/10	H-3	UF	RE	FD	—	31.00	4.79	2.39475	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-23i	MULTI	524	10/18/10	H-3	UF	RE	—	—	30.27	4.60	1.62843	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-51	MULTI	914.96	06/18/10	H-3	UF	RE	—	<	0	0.60667	2.04352	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	914.96	10/19/10	H-3	UF	RE	—	<	0.28737	0.60667	2.07545	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	914.96	01/11/11	H-3	UF	RE	—	<	1.37299	0.70246	2.2351	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	914.96	07/28/11	H-3	UF	CS	FD	<	-1.08562	0.67053	2.29896	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	914.96	07/28/11	H-3	UF	CS	—	<	-1.66036	0.70246	2.36282	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	1030.96	06/18/10	H-3	UF	RE	—	<	-0.57	0.83	2.39475	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	1030.96	10/19/10	H-3	UF	RE	—	<	0.22	0.80	2.68212	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	1030.96	01/11/11	H-3	UF	RE	—	<	1.88	0.80	2.39475	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	1030.96	07/28/11	H-3	UF	CS	—	<	-1.79	0.70	2.26703	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-40	MULTI	849.3	10/19/10	H-3	UF	RE	—	<	-0.35	0.64	2.20317	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-40	MULTI	849.3	01/19/11	H-3	UF	RE	—	<	0.19	0.57	1.94773	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-40	MULTI	849.3	07/08/11	H-3	UF	CS	FD	<	-0.89	0.70	2.36282	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-40	MULTI	849.3	07/08/11	H-3	UF	CS	—	<	-0.64	0.51	1.78808	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	904.6	06/15/10	H-3	UF	RE	—	<	-0.89	0.45	1.53264	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	904.6	08/03/10	H-3	UF	RE	—	<	-0.73	0.64	2.20317	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	904.6	10/20/10	H-3	UF	RE	—	<	0.45	0.48	1.5965	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	904.6	01/27/11	H-3	UF	RE	—	<	-0.29	0.48	1.66036	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5

Table D-1 (continued)

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	Uncertainty	MDA	MDL	Unit	Analytical Method Code	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code
Regional	R-20	MULTI	904.6	07/27/11	H-3	UF	CS	—	<	-1.66	0.67	2.2351	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	1147.1	07/30/10	H-3	UF	RE	FD	<	-2.55	0.70	2.13931	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	1147.1	07/30/10	H-3	UF	RE	—	<	-2.04	0.61	1.82001	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	1147.1	10/11/10	H-3	UF	RE	—	<	1.82	0.77	2.36282	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	1147.1	01/21/11	H-3	UF	RE	—	—	2.20	0.67	1.82001	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-20	MULTI	1147.1	07/25/11	H-3	UF	CS	—	<	1.28	0.67	2.13931	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	830	06/18/10	H-3	UF	RE	—	<	-0.29	0.67	1.9158	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	830	10/13/10	H-3	UF	RE	—	<	2.36	0.86	2.58633	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	830	01/14/11	H-3	UF	RE	—	<	0.83	0.70	2.29896	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	830	07/12/11	H-3	UF	CS	—	<	-1.50	0.73	2.52247	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	915	06/18/10	H-3	UF	RE	—	<	-0.54	0.61	2.01159	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	915	10/13/10	H-3	UF	DUP	—	<	3.29	0.99	2.74598	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	R	R5a
Regional	R-54	MULTI	915	10/13/10	H-3	UF	RE	—	<	4.57	0.89	1.75615	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	U	R4
Regional	R-54	MULTI	915	01/12/11	H-3	UF	RE	—	<	0.89	0.80	2.65019	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	915	07/12/11	H-3	UF	CS	—	<	-0.13	0.73	2.52247	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-32	SINGLE	867.5	10/14/10	H-3	UF	RE	—	<	1.92	0.70	2.10738	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-32	SINGLE	867.5	01/25/11	H-3	UF	RE	—	<	0.45	0.61	2.04352	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-32	SINGLE	867.5	07/27/11	H-3	UF	CS	—	<	-1.05	0.61	2.07545	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-49	MULTI	845	06/14/10	H-3	UF	RE	—	<	-1.15	0.64	2.07545	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-49	MULTI	845	07/29/10	H-3	UF	RE	—	<	-1.44	0.48	1.46878	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-49	MULTI	845	01/19/11	H-3	UF	RE	—	<	-0.26	0.80	2.71405	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-49	MULTI	845	07/08/11	H-3	UF	CS	—	<	-0.19	0.70	2.36282	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-49	MULTI	905.6	06/09/10	H-3	UF	RE	—	<	-0.89	0.57	1.94773	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-49	MULTI	905.6	07/29/10	H-3	UF	RE	—	<	-2.71	0.77	2.33089	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-49	MULTI	905.6	07/25/11	H-3	UF	CS	—	<	-0.48	0.64	2.20317	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-57	MULTI	910	07/13/11	H-3	UF	CS	—	<	-1.09	0.61	2.01159	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-57	MULTI	971.5	07/13/11	H-3	UF	CS	—	<	-0.16	0.64	2.2351	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5

Table D-1 (continued)

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	Uncertainty	MDA	MDL	Unit	Analytical Method Code	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code
Regional	R-39	SINGLE	859	08/12/10	H-3	UF	RE	—	—	2.68	0.86	2.39475	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-39	SINGLE	859	01/26/11	H-3	UF	RE	—	<	-0.70	0.51	1.75615	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-39	SINGLE	859	07/28/11	H-3	UF	CS	—	<	-2.11	0.70	2.20317	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	06/09/10	H-3	UF	RE	FD	<	-1.25	0.67	2.26703	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	06/09/10	H-3	UF	RE	—	<	-0.48	0.67	2.20317	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	08/12/10	H-3	UF	RE	FD	<	1.02	0.61	1.97966	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	08/12/10	H-3	UF	RE	—	<	1.82	0.67	2.01159	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	10/22/10	H-3	UF	RE	PEB	<	-0.42	0.61	2.07545	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	10/22/10	H-3	UF	RE	FD	<	0.80	0.73	2.39475	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	10/22/10	H-3	UF	RE	—	<	0.29	0.35	1.14948	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	01/24/11	H-3	UF	RE	—	<	1.95	0.86	2.65019	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	07/22/11	H-3	UF	CS	—	<	1.21	0.77	2.49054	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5

\*— = None.

**Table D-2  
TA-54 Monitoring Group Groundwater Radioactivity**

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	Uncertainty	MDA	Unit	Lab Code	Analytical Method Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code	DOE DCG	Ratio (Result/Screening Level)	DOE Drinking Water DCG Screening Level	Ratio (Result/Screening Level)	EPA MCL	Ratio (Result/Screening Level)	NMWWCC Groundwater Standard	Ratio (Result/Screening Level)
Regional	R-52	MULTI	1035.2	11/01/11	Ra-226	UF	CS	—*	<	0.664	0.23	0.54	pCi/L	GELC	EPA:903.1	—	U	R11	100	0.01	4	0.17	5	0.13	30	0.02
Regional	R-52	MULTI	1035.2	11/01/11	Ra-228	UF	CS	—	—	0.659	0.2	0.51	pCi/L	GELC	EPA:904	—	—	—	100	0.01	4	0.16	5	0.13	30	0.02
Regional	R-52	MULTI	1107	11/01/11	Ra-228	UF	CS	—	—	0.594	0.19	0.48	pCi/L	GELC	EPA:904	—	—	—	100	0.01	4	0.15	5	0.12	30	0.02
Intermediate	R-37	MULTI	929.3	10/28/11	Ra-226	UF	CS	—	—	0.772	0.21	0.34	pCi/L	GELC	EPA:903.1	—	—	—	100	0.01	4	0.19	5	0.15	30	0.03
Regional	R-53	MULTI	959.7	10/25/11	Ra-226	UF	CS	—	—	0.645	0.19	0.29	pCi/L	GELC	EPA:903.1	—	—	—	100	0.01	4	0.16	5	0.13	30	0.02
Regional	R-21	SINGLE	888.8	11/03/11	Ra-226	UF	CS	—	—	1.61	0.39	0.62	pCi/L	GELC	EPA:903.1	—	—	—	100	0.02	4	0.4	5	0.32	30	0.05
Regional	R-41	MULTI	965.3	10/25/11	Ra-226	UF	CS	—	<	0.43	0.15	0.27	pCi/L	GELC	EPA:903.1	—	U	R11	100	—	4	0.11	5	0.09	30	0.01
Regional	R-41	MULTI	965.3	10/25/11	Ra-228	UF	CS	—	—	0.635	0.16	0.36	pCi/L	GELC	EPA:904	—	—	—	100	0.01	4	0.16	5	0.13	30	0.02
Intermediate	R-55i	SINGLE	510	11/01/11	Ra-226	UF	CS	—	<	0.485	0.17	0.36	pCi/L	GELC	EPA:903.1	—	U	R11	100	—	4	0.12	5	0.1	30	0.02
Intermediate	R-55i	SINGLE	510	11/01/11	Ra-228	UF	CS	—	—	0.698	0.21	0.51	pCi/L	GELC	EPA:904	—	—	—	100	0.01	4	0.17	5	0.14	30	0.02
Regional	R-55	MULTI	994.4	10/31/11	Ra-226	UF	CS	—	<	0.528	0.2	0.46	pCi/L	GELC	EPA:903.1	—	U	R11	100	0.01	4	0.13	5	0.11	30	0.02
Intermediate	R-40	MULTI	649.7	11/01/11	Ra-226	UF	CS	—	<	0.61	0.22	0.52	pCi/L	GELC	EPA:903.1	—	U	R11	100	0.01	4	0.15	5	0.12	30	0.02
Intermediate	R-40	MULTI	649.7	11/01/11	Ra-228	UF	CS	—	—	0.497	0.16	0.42	pCi/L	GELC	EPA:904	—	—	—	100	—	4	0.12	5	0.1	30	0.02
Intermediate	R-23i	MULTI	400.3	11/04/11	Ra-226	UF	CS	—	—	0.45	0.14	0.25	pCi/L	GELC	EPA:903.1	—	—	—	100	—	4	0.11	5	0.09	30	0.02
Regional	R-20	MULTI	1147.1	10/27/11	Ra-228	UF	CS	—	—	0.671	0.18	0.4	pCi/L	GELC	EPA:904	—	—	—	100	0.01	4	0.17	5	0.13	30	0.02
Regional	R-54	MULTI	830	11/02/11	Ra-226	UF	CS	—	—	0.503	0.16	0.41	pCi/L	GELC	EPA:903.1	—	—	—	100	0.01	4	0.13	5	0.1	30	0.02
Regional	R-54	MULTI	830	11/02/11	Ra-228	UF	CS	—	—	0.641	0.18	0.41	pCi/L	GELC	EPA:904	—	—	—	100	0.01	4	0.16	5	0.13	30	0.02
Regional	R-23	SINGLE	816	10/26/11	Ra-226	UF	CS	—	—	0.524	0.16	0.34	pCi/L	GELC	EPA:903.1	—	—	—	100	0.01	4	0.13	5	0.1	30	0.02
Regional	R-23	SINGLE	816	10/26/11	Ra-228	UF	CS	—	<	0.381	0.13	0.35	pCi/L	GELC	EPA:904	—	U	R11	100	—	4	0.1	5	0.08	30	0.01

\* — = None.

**Table D-3  
TA-54 Monitoring Group Groundwater Tritium**

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	Uncertainty	MDA	MDL	Unit	Analytical Method Code	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code
Regional	R-52	MULTI	1035.2	11/01/11	H-3	UF	CS	—*	<	0	0.65	2.2	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-52	MULTI	1107	11/01/11	H-3	UF	CS	—	<	0.74	0.62	2.03	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-37	MULTI	929.3	10/28/11	H-3	UF	CS	—	—	34.40	5.29	2.28	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-37	MULTI	1026	10/31/11	H-3	UF	CS	—	<	-0.45	0.59	2.02	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-38	SINGLE	821.2	10/25/11	H-3	UF	CS	—	<	-0.22	0.65	2.24	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-53	MULTI	849.2	10/25/11	H-3	UF	CS	—	<	0.31	0.59	1.96	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-53	MULTI	959.7	10/25/11	H-3	UF	CS	FD	<	0.34	0.62	2.08	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-53	MULTI	959.7	10/25/11	H-3	UF	CS	—	<	-0.21	0.64	2.18	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-56	MULTI	945	11/02/11	H-3	UF	CS	—	<	0.97	0.69	2.24	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-56	MULTI	1046.6	11/02/11	H-3	UF	CS	FD	<	-0.57	0.60	2.05	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-56	MULTI	1046.6	11/02/11	H-3	UF	CS	—	<	0.55	0.64	2.11	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-21	SINGLE	888.8	11/03/11	H-3	UF	CS	—	<	0.80	0.67	2.19	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-41	MULTI	965.3	10/25/11	H-3	UF	CS	—	<	0.25	0.60	2.02	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-55i	SINGLE	510	11/01/11	H-3	UF	CS	FD	<	0.15	0.67	2.26	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-55i	SINGLE	510	11/01/11	H-3	UF	CS	—	<	0.60	0.65	2.14	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-55	MULTI	860	10/28/11	H-3	UF	CS	—	<	0.52	0.67	2.22	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-55	MULTI	994.4	10/31/11	H-3	UF	CS	—	<	0.74	0.66	2.17	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-40	MULTI	649.7	11/01/11	H-3	UF	CS	—	<	0.50	0.66	2.21	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Intermediate	R-23i	MULTI	470.2	10/20/11	H-3	UF	CS	—	—	21.48	3.37	2.19	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Intermediate	R-23i	MULTI	524	10/26/11	H-3	UF	CS	—	—	21.96	3.43	2.05	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-51	MULTI	914.96	10/21/11	H-3	UF	CS	FD	<	0.58	0.67	2.21	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	914.96	10/21/11	H-3	UF	CS	—	<	-0.06	0.66	2.25	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	914.96	10/21/11	H-3	UF	CS	PEB	<	0.23	0.60	2.03	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-51	MULTI	1030.96	10/21/11	H-3	UF	CS	—	<	0.04	0.65	2.2	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-40	MULTI	849.3	10/20/11	H-3	UF	CS	—	<	-0.03	0.61	2.09	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-20	MULTI	1147.1	10/27/11	H-3	UF	CS	—	<	-1.25	0.67	2.26	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	830	11/02/11	H-3	UF	CS	—	<	-0.43	0.67	2.3	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-54	MULTI	915	10/31/11	H-3	UF	CS	—	<	-1.33	0.65	2.2	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-32	SINGLE	867.5	10/20/11	H-3	UF	CS	—	<	-0.11	0.65	2.22	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-49	MULTI	845	10/26/11	H-3	UF	CS	—	<	-1.30	0.65	2.19	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5

Table D-3 (continued)

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	Uncertainty	MDA	MDL	Unit	Analytical Method Code	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code
Regional	R-49	MULTI	905.6	10/27/11	H-3	UF	CS	—	—	5.62	1.12	2.18	—	pCi/L	Generic:Low_Level_Tritium	ARSL	—	—	—
Regional	R-57	MULTI	910	10/21/11	H-3	UF	CS	—	<	-0.24	0.63	2.16	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-57	MULTI	971.5	10/21/11	H-3	UF	CS	—	<	0	0.64	2.18	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-39	SINGLE	859	10/27/11	H-3	UF	CS	—	<	-0.63	0.65	2.23	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5
Regional	R-23	SINGLE	816	10/26/11	H-3	UF	CS	—	<	0.16	0.65	2.2	—	pCi/L	Generic:Low_Level_Tritium	ARSL	U	U	R5

\*— = None.

Table D-4  
TA-54 Monitoring Group Groundwater Perchlorate

Zone	Location	Well Class	Depth (ft)	Date	Field QC Type Code	Field Preparation Code	Lab Sample Type Code	Analyte	Analytical Method Code	Symbol	Result	MDL	Unit	Dilution Factor	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code	Lab Code
Regional	R-52	MULTI	1035	11/01/11	—*	F	CS	CIO4	SW-846:6850	—	0.39	0.05	µg/L	1	—	—	—	GELC
Regional	R-52	MULTI	1107	11/01/11	—	F	CS	CIO4	SW-846:6850	—	0.305	0.05	µg/L	1	—	—	—	GELC
Intermediate	R-37	MULTI	929	10/28/11	—	F	CS	CIO4	SW-846:6850	—	0.476	0.05	µg/L	1	—	—	—	GELC
Regional	R-37	MULTI	1026	10/31/11	—	F	CS	CIO4	SW-846:6850	—	0.33	0.05	µg/L	1	—	—	—	GELC
Regional	R-38	SINGLE	821	10/25/11	—	F	CS	CIO4	SW-846:6850	—	0.36	0.05	µg/L	1	—	—	—	GELC
Regional	R-53	MULTI	849	10/25/11	—	F	CS	CIO4	SW-846:6850	—	0.3	0.05	µg/L	1	—	—	—	GELC
Regional	R-53	MULTI	960	10/25/11	—	F	CS	CIO4	SW-846:6850	—	0.296	0.05	µg/L	1	—	—	—	GELC
Regional	R-53	MULTI	960	10/25/11	FD	F	CS	CIO4	SW-846:6850	—	0.309	0.05	µg/L	1	—	—	—	GELC
Regional	R-56	MULTI	945	11/02/11	—	F	CS	CIO4	SW-846:6850	—	0.312	0.05	µg/L	1	—	—	—	GELC
Regional	R-56	MULTI	1047	11/02/11	FD	F	CS	CIO4	SW-846:6850	—	0.266	0.05	µg/L	1	—	—	—	GELC
Regional	R-56	MULTI	1047	11/02/11	—	F	CS	CIO4	SW-846:6850	—	0.262	0.05	µg/L	1	—	—	—	GELC
Regional	R-21	SINGLE	889	11/03/11	—	F	CS	CIO4	SW-846:6850	—	0.275	0.05	µg/L	1	—	—	—	GELC

Table D-4 (continued)

Zone	Location	Well Class	Depth (ft)	Date	Field QC Type Code	Field Preparation Code	Lab Sample Type Code	Analyte	Analytical Method Code	Symbol	Result	MDL	Unit	Dilution Factor	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code	Lab Code
Regional	R-41	MULTI	965	10/25/11	—	F	CS	CIO4	SW-846:6850	—	0.385	0.05	µg/L	1	—	—	—	GELC
Intermediate	R-55i	SINGLE	510	11/01/11	FD	F	CS	CIO4	SW-846:6850	—	1.08	0.1	µg/L	2	—	—	—	GELC
Intermediate	R-55i	SINGLE	510	11/01/11	—	F	CS	CIO4	SW-846:6850	—	1.21	0.1	µg/L	2	—	—	—	GELC
Regional	R-55	MULTI	860	10/28/11	—	F	CS	CIO4	SW-846:6850	—	0.449	0.05	µg/L	1	—	—	—	GELC
Regional	R-55	MULTI	994	10/31/11	—	F	CS	CIO4	SW-846:6850	—	0.437	0.05	µg/L	1	—	—	—	GELC
Intermediate	R-40	MULTI	650	11/01/11	—	F	CS	CIO4	SW-846:6850	<	0.2	0.05	µg/L	1	U	U	U_LAB	GELC
Intermediate	R-23i	MULTI	400	11/04/11	—	F	CS	CIO4	SW-846:6850	—	0.296	0.05	µg/L	1	—	—	—	GELC
Intermediate	R-23i	MULTI	470	10/20/11	—	F	CS	CIO4	SW-846:6850	—	0.253	0.05	µg/L	1	—	—	—	GELC
Intermediate	R-23i	MULTI	524	10/26/11	—	F	CS	CIO4	SW-846:6850	—	0.31	0.05	µg/L	1	—	—	—	GELC
Regional	R-51	MULTI	915	10/21/11	—	F	CS	CIO4	SW-846:6850	—	0.272	0.05	µg/L	1	—	—	—	GELC
Regional	R-51	MULTI	915	10/21/11	FD	F	CS	CIO4	SW-846:6850	—	0.277	0.05	µg/L	1	—	—	—	GELC
Regional	R-51	MULTI	915	10/21/11	PEB	UF	CS	CIO4	SW-846:6850	<	0.2	0.05	µg/L	1	U	U	U_LAB	GELC
Regional	R-51	MULTI	1031	10/21/11	—	F	CS	CIO4	SW-846:6850	—	0.267	0.05	µg/L	1	—	—	—	GELC
Regional	R-40	MULTI	849	10/20/11	—	F	CS	CIO4	SW-846:6850	—	0.269	0.05	µg/L	1	—	—	—	GELC
Regional	R-20	MULTI	1147	10/27/11	—	F	CS	CIO4	SW-846:6850	—	0.218	0.05	µg/L	1	—	—	—	GELC
Regional	R-54	MULTI	830	11/02/11	—	F	CS	CIO4	SW-846:6850	—	0.236	0.05	µg/L	1	—	—	—	GELC
Regional	R-54	MULTI	915	10/31/11	—	F	CS	CIO4	SW-846:6850	—	0.27	0.05	µg/L	1	—	—	—	GELC
Regional	R-32	SINGLE	868	10/20/11	—	F	CS	CIO4	SW-846:6850	—	0.347	0.05	µg/L	1	—	—	—	GELC
Regional	R-49	MULTI	845	10/26/11	—	F	CS	CIO4	SW-846:6850	—	0.311	0.05	µg/L	1	—	—	—	GELC
Regional	R-49	MULTI	906	10/27/11	—	F	CS	CIO4	SW-846:6850	—	0.357	0.05	µg/L	1	—	—	—	GELC
Regional	R-57	MULTI	910	10/21/11	—	F	CS	CIO4	SW-846:6850	—	0.273	0.05	µg/L	1	—	—	—	GELC
Regional	R-57	MULTI	972	10/21/11	—	F	CS	CIO4	SW-846:6850	—	0.31	0.05	µg/L	1	—	—	—	GELC
Regional	R-39	SINGLE	859	10/27/11	—	F	CS	CIO4	SW-846:6850	—	0.36	0.05	µg/L	1	—	—	—	GELC
Regional	R-23	SINGLE	816	10/26/11	—	F	CS	CIO4	SW-846:6850	—	0.502	0.05	µg/L	1	—	—	—	GELC

\*— = None.

**Table D-5  
TA-54 Monitoring Group Groundwater Metals**

Zone	Location	Well Class	Depth (ft)	Date	Analyte	Field Preparation Code	Lab Sample Type Code	Field QC Type Code	Symbol	Result	MDL	Unit	Lab Code	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code	Analytical Method Code	NMWQCC Groundwater Standard	Ratio (Result/Screening Level)
Intermediate	R-55i	SINGLE	510	11/01/11	Mn	F	CS	FD	—*	370	2	µg/L	GELC	—	—	—	SW-846:6010B	200	1.85
Intermediate	R-55i	SINGLE	510	11/01/11	Mn	F	CS	—	—	374	2	µg/L	GELC	—	—	—	SW-846:6010B	200	1.87
Intermediate	R-40	MULTI	649.7	11/01/11	Fe	F	CS	—	—	560	30	µg/L	GELC	—	—	—	SW-846:6010B	1000	0.56
Intermediate	R-40	MULTI	649.7	11/01/11	Mn	F	CS	—	—	217	2	µg/L	GELC	—	—	—	SW-846:6010B	200	1.09
Regional	R-51	MULTI	914.96	10/21/11	Al	F	CS	—	—	14,200	68	µg/L	GELC	—	—	—	SW-846:6010B	5000	2.84
Regional	R-51	MULTI	914.96	10/21/11	Fe	F	CS	—	—	8730	30	µg/L	GELC	—	—	—	SW-846:6010B	1000	8.73
Regional	R-54	MULTI	830	11/02/11	Fe	F	CS	—	—	689	30	µg/L	GELC	—	—	—	SW-846:6010B	1000	0.69
Regional	R-54	MULTI	830	11/02/11	Mn	F	CS	—	—	133	2	µg/L	GELC	—	—	—	SW-846:6010B	200	0.67

\* — = None.



**Table D-6  
TA-54 Monitoring Group Groundwater Organic Chemistry**

Zone	Location	Well Class	Depth (ft)	Date	Field QC Type Code	Field Preparation Code	Lab Sample Type Code	Analytical Suite Code	Analyte	Analyte	Symbol	Result	MDL	Unit	Dilution Factor	Lab Qualifier Code	Secondary Validation Flag Code	Secondary Validation Reason Code	Analytical Method Code	Lab Code	EPA MCL	Ratio (Result/Screening Level)	EPA Regional Tap Screening Level	Ratio (Result/Screening Level)	EPA Regional Tap Screening Level	Ratio (Result/Screening Level)	NMWWQC Groundwater Standard	Ratio (Result/Screening Level)
Regional	R-21	SINGLE	888.8	11/03/11	FTB	UF	CS	VOA	Diethyl Ether	60-29-7	—*	0.31	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	7300	—	—	
Intermediate	R-40	MULTI	751.6	10/31/11	—	UF	CS	VOA	Trichloroethene	79-01-6	—	0.34	0.25	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	5	0.07	20	0.02	—	—	100	
Intermediate	R-40	MULTI	751.6	10/31/11	—	UF	CS	VOA	Trichloroethene	79-01-6	—	0.27	0.25	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	5	0.05	20	0.01	—	—	100	
Intermediate	R-23i	MULTI	400.3	11/04/11	EQB	UF	CS	VOA	Acetone	67-64-1	—	6.55	3.5	µg/L	1	J	J	V7c	SW-846:8260B	GELC	—	—	—	—	22,000	—	—	
Intermediate	R-23i	MULTI	400.3	11/04/11	EQB	UF	CS	VOA	Butanone[2-]	78-93-3	—	2.53	1.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	7100	—	—	
Intermediate	R-23i	MULTI	400.3	11/04/11	EQB	UF	CS	VOA	Methyl Methacrylate	80-62-6	—	1.03	1	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	1400	—	—	
Intermediate	R-23i	MULTI	400.3	11/04/11	EQB	UF	CS	VOA	Methyl-2-pentanone[4-]	108-10-1	—	1.37	1.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	2000	—	—	
Intermediate	R-23i	MULTI	400.3	11/04/11	EQB	UF	CS	VOA	Toluene	108-88-3	—	4.64	0.25	µg/L	1	—	—	—	SW-846:8260B	GELC	1000	—	—	—	2300	—	750	0.01
Intermediate	R-23i	MULTI	400.3	11/04/11	FTB	UF	CS	VOA	Diethyl Ether	60-29-7	—	0.34	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	7300	—	—	
Regional	R-20	MULTI	1147.1	10/27/11	—	UF	CS	VOA	Diethyl Ether	60-29-7	—	0.49	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	7300	—	—	
Regional	R-20	MULTI	1147.1	10/27/11	—	UF	CS	VOA	Trichloroethene	79-01-6	—	0.35	0.25	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	5	0.07	20	0.02	—	—	100	
Regional	R-20	MULTI	1147.1	10/27/11	—	UF	CS	VOA	Xylene[1,3-]+Xylene[1,4-]	Xylene[1,3 and 1,4]	—	0.68	0.5	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	—	—	—	
Regional	R-49	MULTI	905.6	10/27/11	FTB	UF	CS	VOA	Diethyl Ether	60-29-7	—	0.78	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	7300	—	—	
Regional	R-39	SINGLE	859	10/27/11	FTB	UF	CS	VOA	Diethyl Ether	60-29-7	—	0.86	0.3	µg/L	1	J	J	J_LAB	SW-846:8260B	GELC	—	—	—	—	7300	—	—	

\*— = None.

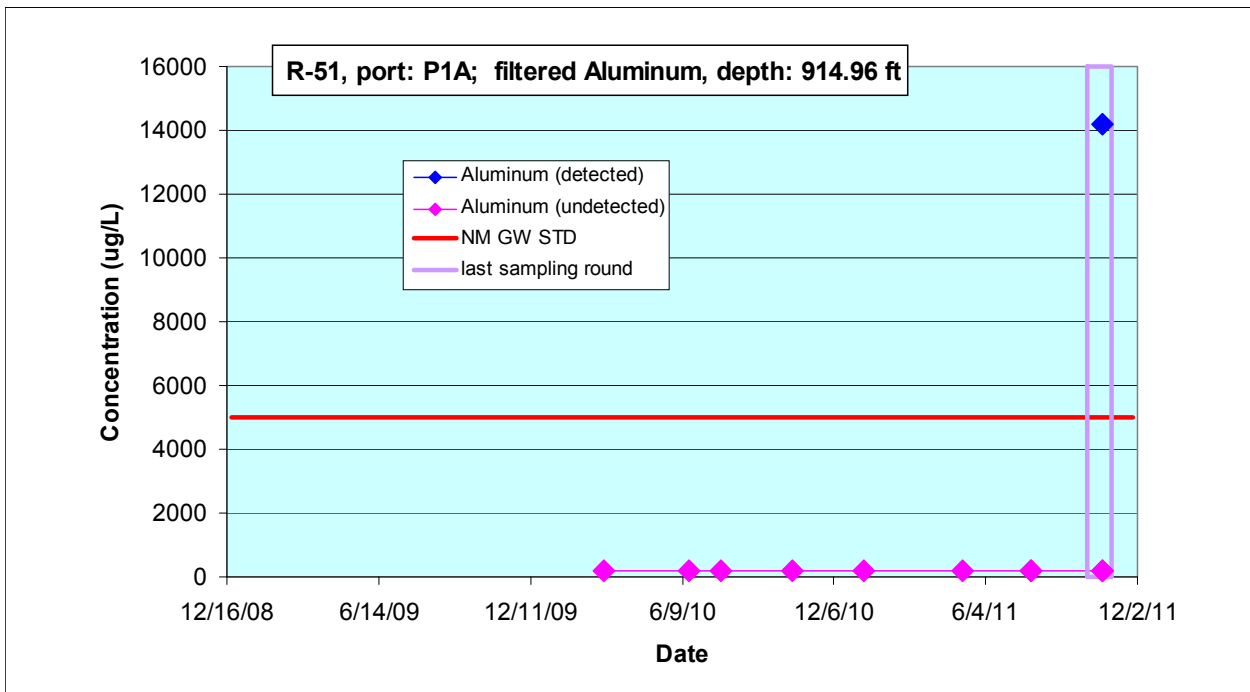
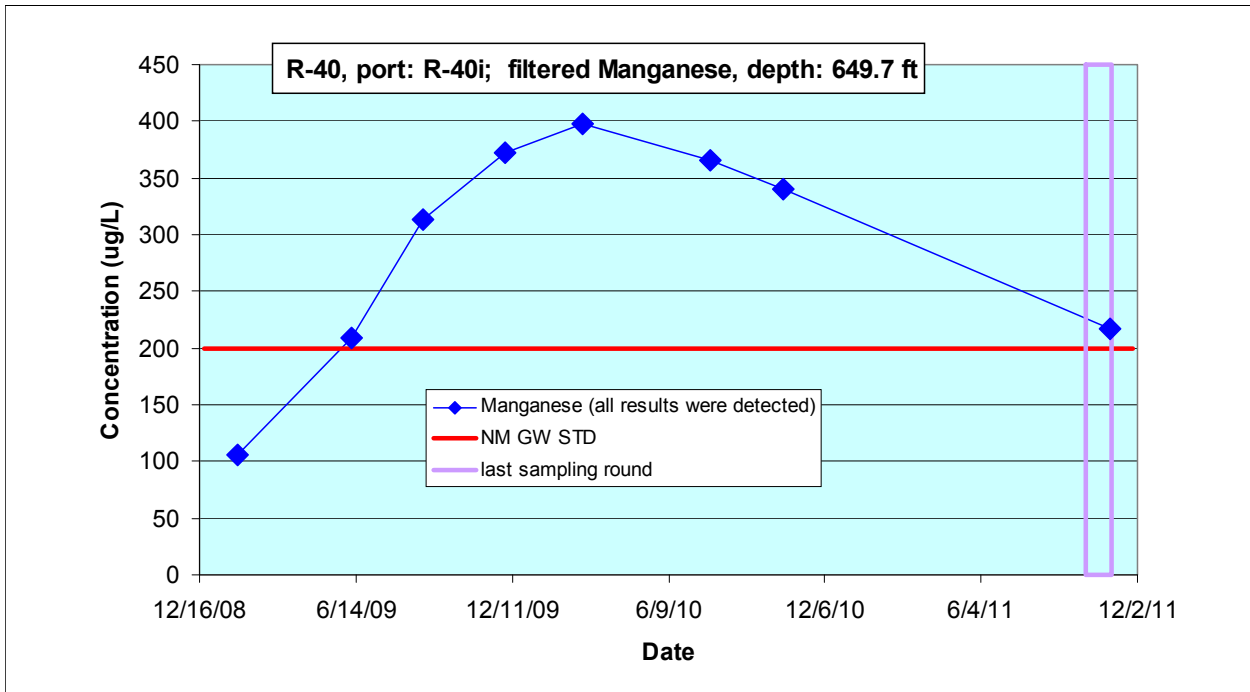


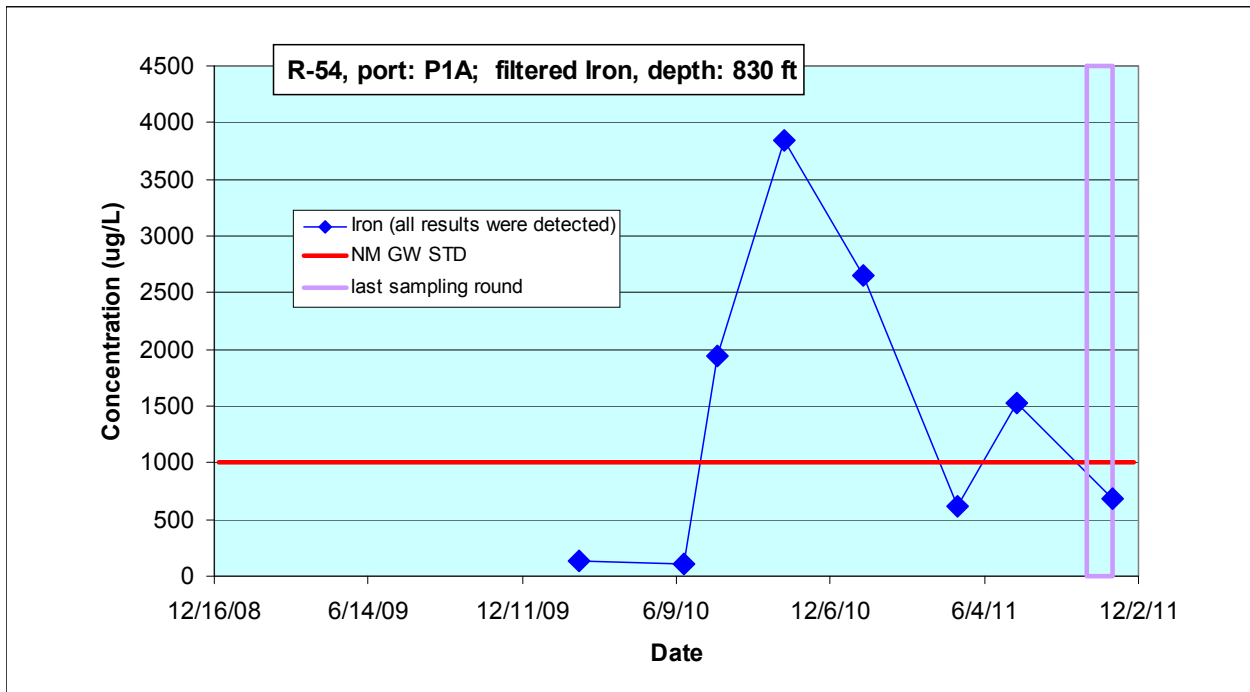
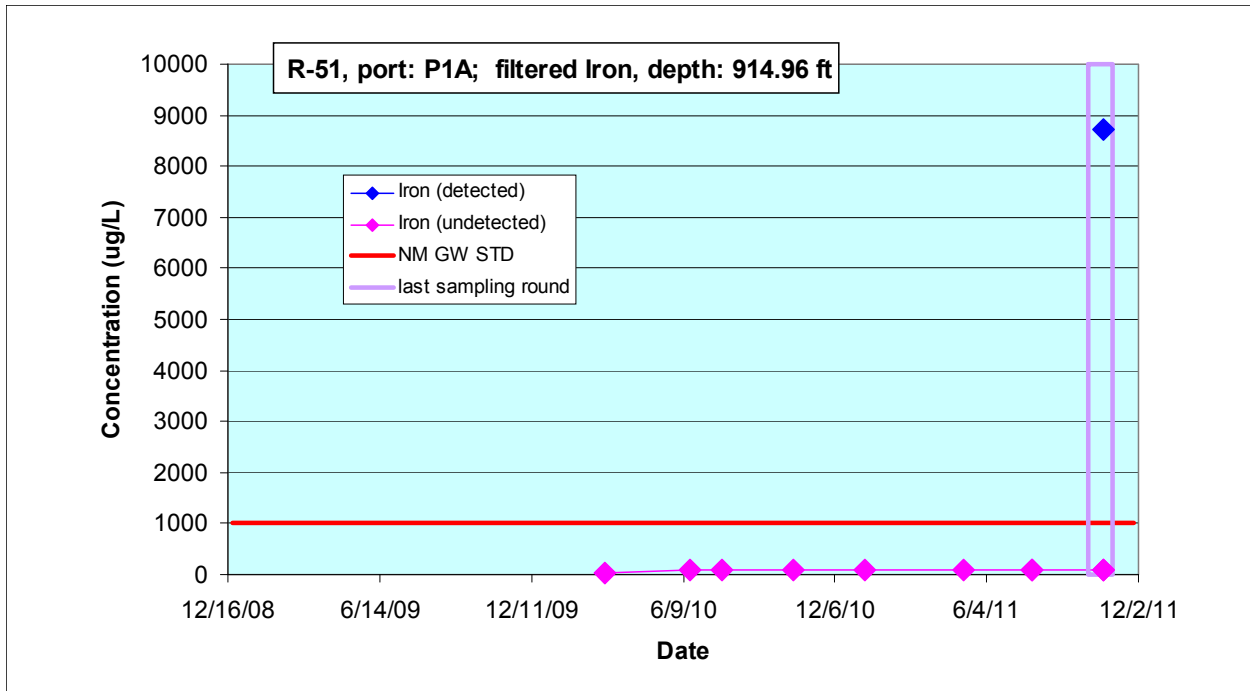
## **Appendix E**

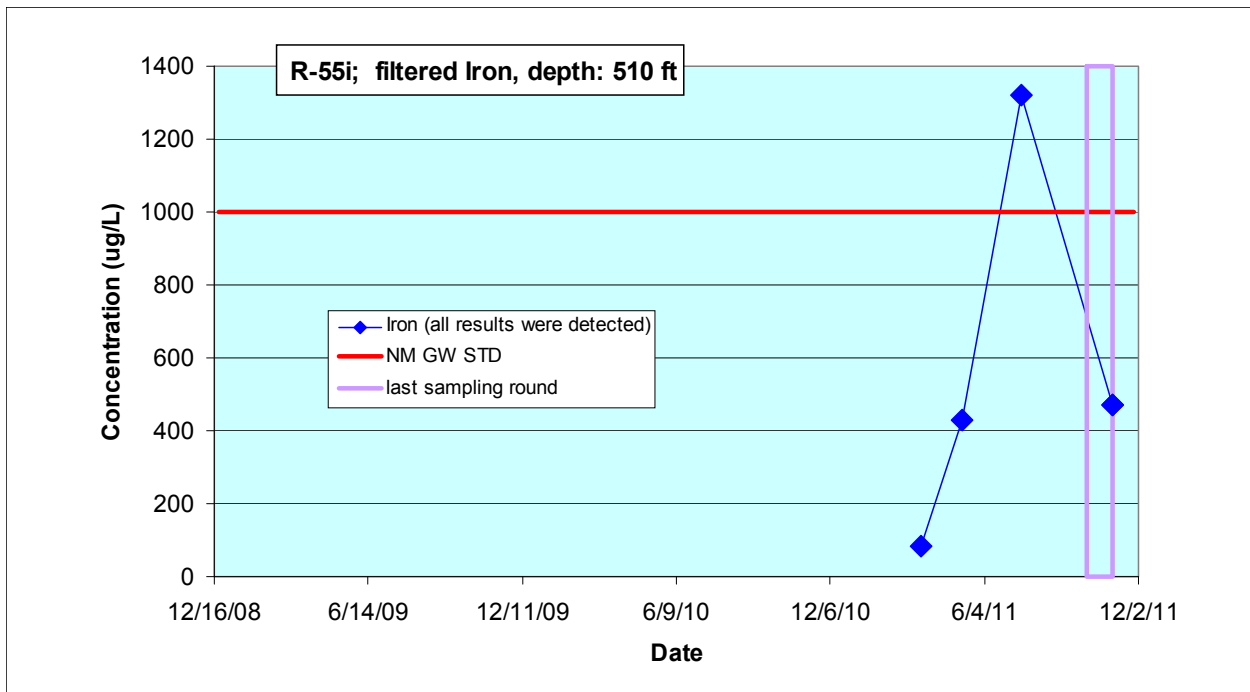
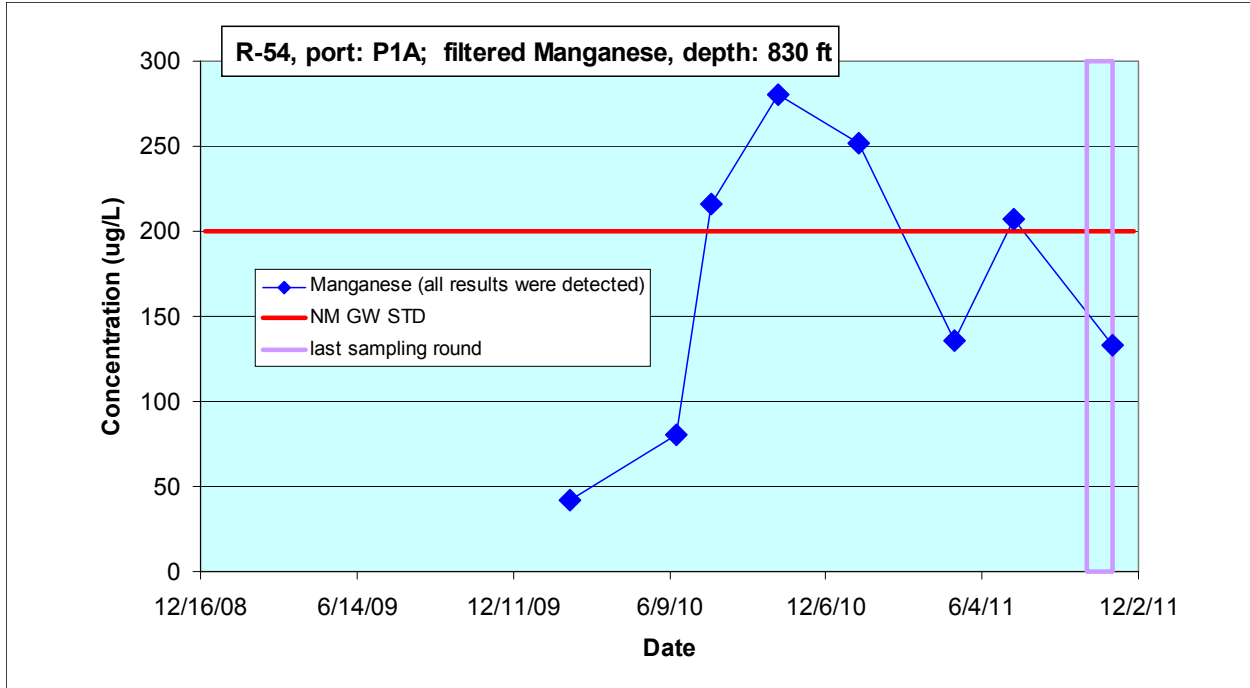
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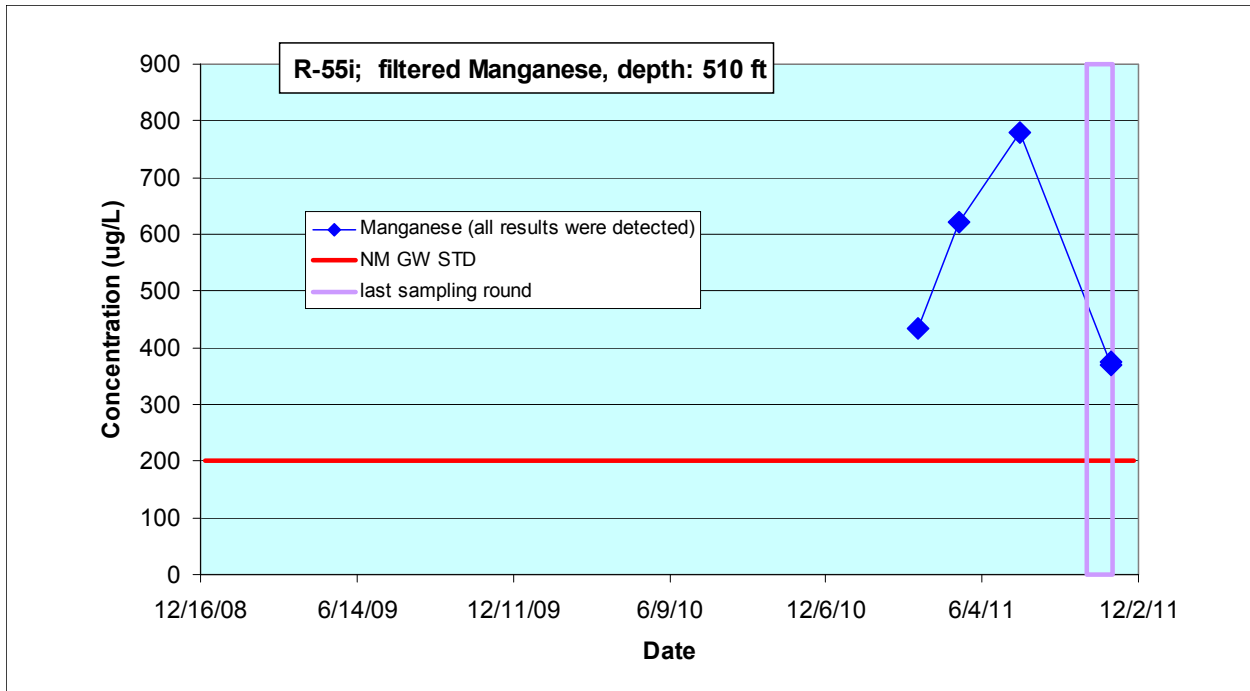
*Analytical Chemistry Graphs of Screening-Level Exceedances*













## **Appendix F**

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



## DVD Table of Contents

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-133	GENINORG <sup>a</sup>	GELC <sup>b</sup>	CAPA-12-1117	10/20/11	R-23i	470.2
12-133	GENINORG	GELC	CAPA-12-1119	10/20/11	R-23i	470.2
12-133	GENINORG	GELC	CAPA-12-1143	10/20/11	R-32	867.5
12-133	GENINORG	GELC	CAPA-12-1144	10/20/11	R-32	867.5
12-133	GENINORG	GELC	CAPA-12-1149	10/20/11	R-40	849.3
12-133	GENINORG	GELC	CAPA-12-1150	10/20/11	R-40	849.3
12-133	HEXP <sup>c</sup>	GELC	CAPA-12-1119	10/20/11	R-23i	470.2
12-133	HEXP	GELC	CAPA-12-1143	10/20/11	R-32	867.5
12-133	HEXP	GELC	CAPA-12-1150	10/20/11	R-40	849.3
12-133	METALS	GELC	CAPA-12-1117	10/20/11	R-23i	470.2
12-133	METALS	GELC	CAPA-12-1119	10/20/11	R-23i	470.2
12-133	METALS	GELC	CAPA-12-1143	10/20/11	R-32	867.5
12-133	METALS	GELC	CAPA-12-1144	10/20/11	R-32	867.5
12-133	METALS	GELC	CAPA-12-1149	10/20/11	R-40	849.3
12-133	METALS	GELC	CAPA-12-1150	10/20/11	R-40	849.3
12-133	PEST/PCB <sup>d</sup>	GELC	CAPA-12-1119	10/20/11	R-23i	470.2
12-133	PEST/PCB	GELC	CAPA-12-1143	10/20/11	R-32	867.5
12-133	PEST/PCB	GELC	CAPA-12-1150	10/20/11	R-40	849.3
12-133	RAD <sup>e</sup>	GELC	CAPA-12-1119	10/20/11	R-23i	470.2
12-133	RAD	GELC	CAPA-12-1143	10/20/11	R-32	867.5
12-133	RAD	GELC	CAPA-12-1150	10/20/11	R-40	849.3
12-133	SVOA <sup>f</sup>	GELC	CAPA-12-1119	10/20/11	R-23i	470.2
12-133	SVOA	GELC	CAPA-12-1143	10/20/11	R-32	867.5
12-133	SVOA	GELC	CAPA-12-1150	10/20/11	R-40	849.3
12-133	VOA <sup>g</sup>	GELC	CAPA-12-1118	10/20/11	R-23i	470.2
12-133	VOA	GELC	CAPA-12-1119	10/20/11	R-23i	470.2
12-133	VOA	GELC	CAPA-12-1142	10/20/11	R-32	867.5
12-133	VOA	GELC	CAPA-12-1143	10/20/11	R-32	867.5
12-133	VOA	GELC	CAPA-12-1148	10/20/11	R-40	849.3
12-133	VOA	GELC	CAPA-12-1150	10/20/11	R-40	849.3
12-145	DIOX/FUR <sup>h</sup>	CFA <sup>i</sup>	CAPA-12-1159	10/21/11	R-51	914.96
12-145	DIOX/FUR	CFA	CAPA-12-1160	10/21/11	R-51	914.96
12-145	DIOX/FUR	CFA	CAPA-12-1161	10/21/11	R-51	914.96
12-145	DIOX/FUR	CFA	CAPA-12-1163	10/21/11	R-51	914.96
12-146	GENINORG	GELC	CAPA-12-1159	10/21/11	R-51	914.96
12-146	GENINORG	GELC	CAPA-12-1160	10/21/11	R-51	914.96
12-146	GENINORG	GELC	CAPA-12-1163	10/21/11	R-51	914.96
12-146	HEXP	GELC	CAPA-12-1159	10/21/11	R-51	914.96
12-146	HEXP	GELC	CAPA-12-1160	10/21/11	R-51	914.96

Periodic Monitoring Report for TA-54 Monitoring Group

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-146	HEXP	GELC	CAPA-12-1163	10/21/11	R-51	914.96
12-146	PEST/PCB	GELC	CAPA-12-1159	10/21/11	R-51	914.96
12-146	PEST/PCB	GELC	CAPA-12-1160	10/21/11	R-51	914.96
12-146	PEST/PCB	GELC	CAPA-12-1161	10/21/11	R-51	914.96
12-146	PEST/PCB	GELC	CAPA-12-1163	10/21/11	R-51	914.96
12-146	SVOA	GELC	CAPA-12-1159	10/21/11	R-51	914.96
12-146	SVOA	GELC	CAPA-12-1160	10/21/11	R-51	914.96
12-146	SVOA	GELC	CAPA-12-1161	10/21/11	R-51	914.96
12-146	SVOA	GELC	CAPA-12-1163	10/21/11	R-51	914.96
12-146	VOA	GELC	CAPA-12-1157	10/21/11	R-51	914.96
12-146	VOA	GELC	CAPA-12-1159	10/21/11	R-51	914.96
12-146	VOA	GELC	CAPA-12-1160	10/21/11	R-51	914.96
12-146	VOA	GELC	CAPA-12-1161	10/21/11	R-51	914.96
12-146	VOA	GELC	CAPA-12-1163	10/21/11	R-51	914.96
12-147	GENINORG	GELC	CAPA-12-1158	10/21/11	R-51	914.96
12-147	GENINORG	GELC	CAPA-12-1159	10/21/11	R-51	914.96
12-147	GENINORG	GELC	CAPA-12-1160	10/21/11	R-51	914.96
12-147	GENINORG	GELC	CAPA-12-1162	10/21/11	R-51	914.96
12-147	GENINORG	GELC	CAPA-12-1163	10/21/11	R-51	914.96
12-147	METALS	GELC	CAPA-12-1158	10/21/11	R-51	914.96
12-147	METALS	GELC	CAPA-12-1159	10/21/11	R-51	914.96
12-147	METALS	GELC	CAPA-12-1160	10/21/11	R-51	914.96
12-147	METALS	GELC	CAPA-12-1162	10/21/11	R-51	914.96
12-147	METALS	GELC	CAPA-12-1163	10/21/11	R-51	914.96
12-148	RAD	GELC	CAPA-12-1159	10/21/11	R-51	914.96
12-148	RAD	GELC	CAPA-12-1160	10/21/11	R-51	914.96
12-148	RAD	GELC	CAPA-12-1163	10/21/11	R-51	914.96
12-151	DIOX/FUR	CFA	CAPA-12-1164	10/21/11	R-51	1030.96
12-152	GENINORG	GELC	CAPA-12-1164	10/21/11	R-51	1030.96
12-152	GENINORG	GELC	CAPA-12-1166	10/21/11	R-51	1030.96
12-152	HEXP	GELC	CAPA-12-1164	10/21/11	R-51	1030.96
12-152	METALS	GELC	CAPA-12-1164	10/21/11	R-51	1030.96
12-152	METALS	GELC	CAPA-12-1166	10/21/11	R-51	1030.96
12-152	PEST/PCB	GELC	CAPA-12-1164	10/21/11	R-51	1030.96
12-152	RAD	GELC	CAPA-12-1164	10/21/11	R-51	1030.96
12-152	RAD	GELC	CAPA-12-1166	10/21/11	R-51	1030.96
12-152	SVOA	GELC	CAPA-12-1164	10/21/11	R-51	1030.96
12-152	VOA	GELC	CAPA-12-1164	10/21/11	R-51	1030.96
12-152	VOA	GELC	CAPA-12-1165	10/21/11	R-51	1030.96
12-155	DIOX/FUR	CFA	CAPA-12-1215	10/21/11	R-57	910
12-155	DIOX/FUR	CFA	CAPA-12-1218	10/21/11	R-57	971.5

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-156	GENINORG	GELC	CAPA-12-1215	10/21/11	R-57	910
12-156	GENINORG	GELC	CAPA-12-1218	10/21/11	R-57	971.5
12-156	HEXP	GELC	CAPA-12-1215	10/21/11	R-57	910
12-156	HEXP	GELC	CAPA-12-1218	10/21/11	R-57	971.5
12-156	PEST/PCB	GELC	CAPA-12-1215	10/21/11	R-57	910
12-156	PEST/PCB	GELC	CAPA-12-1218	10/21/11	R-57	971.5
12-156	SVOA	GELC	CAPA-12-1215	10/21/11	R-57	910
12-156	SVOA	GELC	CAPA-12-1218	10/21/11	R-57	971.5
12-156	VOA	GELC	CAPA-12-1215	10/21/11	R-57	910
12-156	VOA	GELC	CAPA-12-1217	10/21/11	R-57	910
12-156	VOA	GELC	CAPA-12-1218	10/21/11	R-57	971.5
12-156	VOA	GELC	CAPA-12-1219	10/21/11	R-57	971.5
12-157	GENINORG	GELC	CAPA-12-1215	10/21/11	R-57	910
12-157	GENINORG	GELC	CAPA-12-1216	10/21/11	R-57	910
12-157	GENINORG	GELC	CAPA-12-1218	10/21/11	R-57	971.5
12-157	GENINORG	GELC	CAPA-12-1220	10/21/11	R-57	971.5
12-157	METALS	GELC	CAPA-12-1215	10/21/11	R-57	910
12-157	METALS	GELC	CAPA-12-1216	10/21/11	R-57	910
12-157	METALS	GELC	CAPA-12-1218	10/21/11	R-57	971.5
12-157	METALS	GELC	CAPA-12-1220	10/21/11	R-57	971.5
12-157	RAD	GELC	CAPA-12-1215	10/21/11	R-57	910
12-157	RAD	GELC	CAPA-12-1218	10/21/11	R-57	971.5
12-160	DIOX/FUR	CFA	CAPA-12-1119	10/20/11	R-23i	470.2
12-160	DIOX/FUR	CFA	CAPA-12-1143	10/20/11	R-32	867.5
12-160	DIOX/FUR	CFA	CAPA-12-1150	10/20/11	R-40	849.3
12-167	DIOX/FUR	CFA	CAPA-12-1181	10/25/11	R-38	821.2
12-167	DIOX/FUR	CFA	CAPA-12-1182	10/25/11	R-41	965.3
12-168	GENINORG	GELC	CAPA-12-1181	10/25/11	R-38	821.2
12-168	GENINORG	GELC	CAPA-12-1182	10/25/11	R-41	965.3
12-168	HEXP	GELC	CAPA-12-1181	10/25/11	R-38	821.2
12-168	HEXP	GELC	CAPA-12-1182	10/25/11	R-41	965.3
12-168	PEST/PCB	GELC	CAPA-12-1181	10/25/11	R-38	821.2
12-168	PEST/PCB	GELC	CAPA-12-1182	10/25/11	R-41	965.3
12-168	SVOA	GELC	CAPA-12-1181	10/25/11	R-38	821.2
12-168	SVOA	GELC	CAPA-12-1182	10/25/11	R-41	965.3
12-168	VOA	GELC	CAPA-12-1180	10/25/11	R-38	821.2
12-168	VOA	GELC	CAPA-12-1181	10/25/11	R-38	821.2
12-168	VOA	GELC	CAPA-12-1182	10/25/11	R-41	965.3
12-168	VOA	GELC	CAPA-12-1184	10/25/11	R-41	965.3
12-169	GENINORG	GELC	CAPA-12-1179	10/25/11	R-38	821.2
12-169	GENINORG	GELC	CAPA-12-1181	10/25/11	R-38	821.2

Periodic Monitoring Report for TA-54 Monitoring Group

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-169	GENINORG	GELC	CAPA-12-1182	10/25/11	R-41	965.3
12-169	GENINORG	GELC	CAPA-12-1183	10/25/11	R-41	965.3
12-169	METALS	GELC	CAPA-12-1179	10/25/11	R-38	821.2
12-169	METALS	GELC	CAPA-12-1181	10/25/11	R-38	821.2
12-169	METALS	GELC	CAPA-12-1182	10/25/11	R-41	965.3
12-169	METALS	GELC	CAPA-12-1183	10/25/11	R-41	965.3
12-170	RAD	GELC	CAPA-12-1181	10/25/11	R-38	821.2
12-170	RAD	GELC	CAPA-12-1182	10/25/11	R-41	965.3
12-171	RAD	ARSL <sup>j</sup>	CAPA-12-1119	10/20/11	R-23i	470.2
12-171	RAD	ARSL	CAPA-12-1143	10/20/11	R-32	867.5
12-171	RAD	ARSL	CAPA-12-1150	10/20/11	R-40	849.3
12-171	RAD	ARSL	CAPA-12-1159	10/21/11	R-51	914.96
12-171	RAD	ARSL	CAPA-12-1160	10/21/11	R-51	914.96
12-171	RAD	ARSL	CAPA-12-1163	10/21/11	R-51	914.96
12-171	RAD	ARSL	CAPA-12-1164	10/21/11	R-51	1030.96
12-171	RAD	ARSL	CAPA-12-1181	10/25/11	R-38	821.2
12-171	RAD	ARSL	CAPA-12-1182	10/25/11	R-41	965.3
12-171	RAD	ARSL	CAPA-12-1215	10/21/11	R-57	910
12-171	RAD	ARSL	CAPA-12-1218	10/21/11	R-57	971.5
12-175	DIOX/FUR	CFA	CAPA-12-1192	10/25/11	R-53	849.2
12-175	DIOX/FUR	CFA	CAPA-12-1196	10/25/11	R-53	959.7
12-175	DIOX/FUR	CFA	CAPA-12-1197	10/25/11	R-53	959.7
12-175	DIOX/FUR	CFA	CAPA-12-1198	10/25/11	R-53	959.7
12-176	GENINORG	GELC	CAPA-12-1192	10/25/11	R-53	849.2
12-176	GENINORG	GELC	CAPA-12-1196	10/25/11	R-53	959.7
12-176	GENINORG	GELC	CAPA-12-1197	10/25/11	R-53	959.7
12-176	HEXP	GELC	CAPA-12-1192	10/25/11	R-53	849.2
12-176	HEXP	GELC	CAPA-12-1196	10/25/11	R-53	959.7
12-176	HEXP	GELC	CAPA-12-1197	10/25/11	R-53	959.7
12-176	PEST/PCB	GELC	CAPA-12-1192	10/25/11	R-53	849.2
12-176	PEST/PCB	GELC	CAPA-12-1196	10/25/11	R-53	959.7
12-176	PEST/PCB	GELC	CAPA-12-1197	10/25/11	R-53	959.7
12-176	PEST/PCB	GELC	CAPA-12-1198	10/25/11	R-53	959.7
12-176	SVOA	GELC	CAPA-12-1192	10/25/11	R-53	849.2
12-176	SVOA	GELC	CAPA-12-1196	10/25/11	R-53	959.7
12-176	SVOA	GELC	CAPA-12-1197	10/25/11	R-53	959.7
12-176	SVOA	GELC	CAPA-12-1198	10/25/11	R-53	959.7
12-176	VOA	GELC	CAPA-12-1192	10/25/11	R-53	849.2
12-176	VOA	GELC	CAPA-12-1193	10/25/11	R-53	849.2
12-176	VOA	GELC	CAPA-12-1194	10/25/11	R-53	959.7
12-176	VOA	GELC	CAPA-12-1196	10/25/11	R-53	959.7

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-176	VOA	GELC	CAPA-12-1197	10/25/11	R-53	959.7
12-176	VOA	GELC	CAPA-12-1198	10/25/11	R-53	959.7
12-177	GENINORG	GELC	CAPA-12-1191	10/25/11	R-53	849.2
12-177	GENINORG	GELC	CAPA-12-1192	10/25/11	R-53	849.2
12-177	GENINORG	GELC	CAPA-12-1195	10/25/11	R-53	959.7
12-177	GENINORG	GELC	CAPA-12-1196	10/25/11	R-53	959.7
12-177	GENINORG	GELC	CAPA-12-1197	10/25/11	R-53	959.7
12-177	GENINORG	GELC	CAPA-12-1199	10/25/11	R-53	959.7
12-177	METALS	GELC	CAPA-12-1191	10/25/11	R-53	849.2
12-177	METALS	GELC	CAPA-12-1192	10/25/11	R-53	849.2
12-177	METALS	GELC	CAPA-12-1195	10/25/11	R-53	959.7
12-177	METALS	GELC	CAPA-12-1196	10/25/11	R-53	959.7
12-177	METALS	GELC	CAPA-12-1197	10/25/11	R-53	959.7
12-177	METALS	GELC	CAPA-12-1199	10/25/11	R-53	959.7
12-178	RAD	GELC	CAPA-12-1192	10/25/11	R-53	849.2
12-178	RAD	GELC	CAPA-12-1196	10/25/11	R-53	959.7
12-178	RAD	GELC	CAPA-12-1197	10/25/11	R-53	959.7
12-179	RAD	ARSL	CAPA-12-1192	10/25/11	R-53	849.2
12-179	RAD	ARSL	CAPA-12-1196	10/25/11	R-53	959.7
12-179	RAD	ARSL	CAPA-12-1197	10/25/11	R-53	959.7
12-185	DIOX/FUR	CFA	CAPA-12-1121	10/26/11	R-23i	524
12-185	DIOX/FUR	CFA	CAPA-12-1139	10/26/11	R-23	816
12-186	GENINORG	GELC	CAPA-12-1121	10/26/11	R-23i	524
12-186	GENINORG	GELC	CAPA-12-1139	10/26/11	R-23	816
12-186	HEXP	GELC	CAPA-12-1121	10/26/11	R-23i	524
12-186	HEXP	GELC	CAPA-12-1139	10/26/11	R-23	816
12-186	PEST/PCB	GELC	CAPA-12-1121	10/26/11	R-23i	524
12-186	PEST/PCB	GELC	CAPA-12-1139	10/26/11	R-23	816
12-186	SVOA	GELC	CAPA-12-1121	10/26/11	R-23i	524
12-186	SVOA	GELC	CAPA-12-1139	10/26/11	R-23	816
12-186	VOA	GELC	CAPA-12-1120	10/26/11	R-23i	524
12-186	VOA	GELC	CAPA-12-1121	10/26/11	R-23i	524
12-186	VOA	GELC	CAPA-12-1139	10/26/11	R-23	816
12-186	VOA	GELC	CAPA-12-1141	10/26/11	R-23	816
12-187	GENINORG	GELC	CAPA-12-1121	10/26/11	R-23i	524
12-187	GENINORG	GELC	CAPA-12-1122	10/26/11	R-23i	524
12-187	GENINORG	GELC	CAPA-12-1139	10/26/11	R-23	816
12-187	GENINORG	GELC	CAPA-12-1140	10/26/11	R-23	816
12-187	METALS	GELC	CAPA-12-1121	10/26/11	R-23i	524
12-187	METALS	GELC	CAPA-12-1122	10/26/11	R-23i	524
12-187	METALS	GELC	CAPA-12-1139	10/26/11	R-23	816

Periodic Monitoring Report for TA-54 Monitoring Group

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-187	METALS	GELC	CAPA-12-1140	10/26/11	R-23	816
12-187	RAD	GELC	CAPA-12-1121	10/26/11	R-23i	524
12-187	RAD	GELC	CAPA-12-1139	10/26/11	R-23	816
12-194	DIOX/FUR	CFA	CAPA-12-1153	10/26/11	R-49	845
12-195	GENINORG	GELC	CAPA-12-1151	10/26/11	R-49	845
12-195	GENINORG	GELC	CAPA-12-1153	10/26/11	R-49	845
12-195	HEXP	GELC	CAPA-12-1153	10/26/11	R-49	845
12-195	METALS	GELC	CAPA-12-1151	10/26/11	R-49	845
12-195	METALS	GELC	CAPA-12-1153	10/26/11	R-49	845
12-195	PEST/PCB	GELC	CAPA-12-1153	10/26/11	R-49	845
12-195	RAD	GELC	CAPA-12-1153	10/26/11	R-49	845
12-195	SVOA	GELC	CAPA-12-1153	10/26/11	R-49	845
12-195	VOA	GELC	CAPA-12-1152	10/26/11	R-49	845
12-195	VOA	GELC	CAPA-12-1153	10/26/11	R-49	845
12-201	GENINORG	GELC	CAPA-12-1136	10/27/11	R-20	1147.1
12-201	GENINORG	GELC	CAPA-12-1138	10/27/11	R-20	1147.1
12-201	GENINORG	GELC	CAPA-12-1146	10/27/11	R-39	859
12-201	GENINORG	GELC	CAPA-12-1147	10/27/11	R-39	859
12-201	GENINORG	GELC	CAPA-12-1155	10/27/11	R-49	905.6
12-201	GENINORG	GELC	CAPA-12-1156	10/27/11	R-49	905.6
12-201	HEXP	GELC	CAPA-12-1136	10/27/11	R-20	1147.1
12-201	HEXP	GELC	CAPA-12-1147	10/27/11	R-39	859
12-201	HEXP	GELC	CAPA-12-1156	10/27/11	R-49	905.6
12-201	METALS	GELC	CAPA-12-1136	10/27/11	R-20	1147.1
12-201	METALS	GELC	CAPA-12-1138	10/27/11	R-20	1147.1
12-201	METALS	GELC	CAPA-12-1146	10/27/11	R-39	859
12-201	METALS	GELC	CAPA-12-1147	10/27/11	R-39	859
12-201	METALS	GELC	CAPA-12-1155	10/27/11	R-49	905.6
12-201	METALS	GELC	CAPA-12-1156	10/27/11	R-49	905.6
12-201	PEST/PCB	GELC	CAPA-12-1136	10/27/11	R-20	1147.1
12-201	PEST/PCB	GELC	CAPA-12-1147	10/27/11	R-39	859
12-201	PEST/PCB	GELC	CAPA-12-1156	10/27/11	R-49	905.6
12-201	RAD	GELC	CAPA-12-1136	10/27/11	R-20	1147.1
12-201	RAD	GELC	CAPA-12-1147	10/27/11	R-39	859
12-201	RAD	GELC	CAPA-12-1156	10/27/11	R-49	905.6
12-201	SVOA	GELC	CAPA-12-1136	10/27/11	R-20	1147.1
12-201	SVOA	GELC	CAPA-12-1147	10/27/11	R-39	859
12-201	SVOA	GELC	CAPA-12-1156	10/27/11	R-49	905.6
12-201	VOA	GELC	CAPA-12-1136	10/27/11	R-20	1147.1
12-201	VOA	GELC	CAPA-12-1137	10/27/11	R-20	1147.1
12-201	VOA	GELC	CAPA-12-1145	10/27/11	R-39	859



Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-201	VOA	GELC	CAPA-12-1147	10/27/11	R-39	859
12-201	VOA	GELC	CAPA-12-1154	10/27/11	R-49	905.6
12-201	VOA	GELC	CAPA-12-1156	10/27/11	R-49	905.6
12-209	DIOX/FUR	CFA	CAPA-12-1201	10/28/11	R-55	860
12-210	GENINORG	GELC	CAPA-12-1200	10/28/11	R-55	860
12-210	GENINORG	GELC	CAPA-12-1201	10/28/11	R-55	860
12-210	HEXP	GELC	CAPA-12-1201	10/28/11	R-55	860
12-210	METALS	GELC	CAPA-12-1200	10/28/11	R-55	860
12-210	METALS	GELC	CAPA-12-1201	10/28/11	R-55	860
12-210	PEST/PCB	GELC	CAPA-12-1201	10/28/11	R-55	860
12-210	RAD	GELC	CAPA-12-1201	10/28/11	R-55	860
12-210	SVOA	GELC	CAPA-12-1201	10/28/11	R-55	860
12-210	VOA	GELC	CAPA-12-1201	10/28/11	R-55	860
12-210	VOA	GELC	CAPA-12-1202	10/28/11	R-55	860
12-213	DIOX/FUR	CFA	CAPA-12-1127	10/28/11	R-37	929.3
12-214	GENINORG	GELC	CAPA-12-1127	10/28/11	R-37	929.3
12-214	GENINORG	GELC	CAPA-12-1128	10/28/11	R-37	929.3
12-214	HEXP	GELC	CAPA-12-1127	10/28/11	R-37	929.3
12-214	METALS	GELC	CAPA-12-1127	10/28/11	R-37	929.3
12-214	METALS	GELC	CAPA-12-1128	10/28/11	R-37	929.3
12-214	PEST/PCB	GELC	CAPA-12-1127	10/28/11	R-37	929.3
12-214	RAD	GELC	CAPA-12-1127	10/28/11	R-37	929.3
12-214	SVOA	GELC	CAPA-12-1127	10/28/11	R-37	929.3
12-214	VOA	GELC	CAPA-12-1126	10/28/11	R-37	929.3
12-214	VOA	GELC	CAPA-12-1127	10/28/11	R-37	929.3
12-215	DIOX/FUR	CFA	CAPA-12-1136	10/27/11	R-20	1147.1
12-215	DIOX/FUR	CFA	CAPA-12-1147	10/27/11	R-39	859
12-215	DIOX/FUR	CFA	CAPA-12-1156	10/27/11	R-49	905.6
12-218	VOA	GELC	CAPA-12-1306	10/31/11	R-40	751.6
12-218	VOA	GELC	CAPA-12-1307	10/31/11	R-40	751.6
12-218	VOA	GELC	CAPA-12-1308	10/31/11	R-40	751.6
12-218	VOA	GELC	CAPA-12-1309	10/31/11	R-40	751.6
12-218	VOA	GELC	CAPA-12-1312	10/31/11	R-40	751.6
12-224	DIOX/FUR	CFA	CAPA-12-1204	10/31/11	R-55	994.4
12-225	GENINORG	GELC	CAPA-12-1204	10/31/11	R-55	994.4
12-225	GENINORG	GELC	CAPA-12-1205	10/31/11	R-55	994.4
12-225	HEXP	GELC	CAPA-12-1204	10/31/11	R-55	994.4
12-225	METALS	GELC	CAPA-12-1204	10/31/11	R-55	994.4
12-225	METALS	GELC	CAPA-12-1205	10/31/11	R-55	994.4
12-225	PEST/PCB	GELC	CAPA-12-1204	10/31/11	R-55	994.4
12-225	RAD	GELC	CAPA-12-1204	10/31/11	R-55	994.4

Periodic Monitoring Report for TA-54 Monitoring Group

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-225	SVOA	GELC	CAPA-12-1204	10/31/11	R-55	994.4
12-225	VOA	GELC	CAPA-12-1203	10/31/11	R-55	994.4
12-225	VOA	GELC	CAPA-12-1204	10/31/11	R-55	994.4
12-228	DIOX/FUR	CFA	CAPA-12-1172	10/31/11	R-54	915
12-228	DIOX/FUR	CFA	CAPA-12-1178	10/31/11	R-37	1026
12-229	GENINORG	GELC	CAPA-12-1172	10/31/11	R-54	915
12-229	GENINORG	GELC	CAPA-12-1178	10/31/11	R-37	1026
12-229	HEXP	GELC	CAPA-12-1172	10/31/11	R-54	915
12-229	HEXP	GELC	CAPA-12-1178	10/31/11	R-37	1026
12-229	PEST/PCB	GELC	CAPA-12-1172	10/31/11	R-54	915
12-229	PEST/PCB	GELC	CAPA-12-1178	10/31/11	R-37	1026
12-229	SVOA	GELC	CAPA-12-1172	10/31/11	R-54	915
12-229	SVOA	GELC	CAPA-12-1178	10/31/11	R-37	1026
12-229	VOA	GELC	CAPA-12-1171	10/31/11	R-54	915
12-229	VOA	GELC	CAPA-12-1172	10/31/11	R-54	915
12-229	VOA	GELC	CAPA-12-1176	10/31/11	R-37	1026
12-229	VOA	GELC	CAPA-12-1178	10/31/11	R-37	1026
12-230	GENINORG	GELC	CAPA-12-1170	10/31/11	R-54	915
12-230	GENINORG	GELC	CAPA-12-1172	10/31/11	R-54	915
12-230	GENINORG	GELC	CAPA-12-1177	10/31/11	R-37	1026
12-230	GENINORG	GELC	CAPA-12-1178	10/31/11	R-37	1026
12-230	METALS	GELC	CAPA-12-1170	10/31/11	R-54	915
12-230	METALS	GELC	CAPA-12-1172	10/31/11	R-54	915
12-230	METALS	GELC	CAPA-12-1177	10/31/11	R-37	1026
12-230	METALS	GELC	CAPA-12-1178	10/31/11	R-37	1026
12-231	RAD	GELC	CAPA-12-1172	10/31/11	R-54	915
12-231	RAD	GELC	CAPA-12-1178	10/31/11	R-37	1026
12-240	DIOX/FUR	CFA	CAPA-12-1222	11/01/11	R-55i	510
12-240	DIOX/FUR	CFA	CAPA-12-1224	11/01/11	R-55i	510
12-240	DIOX/FUR	CFA	CAPA-12-1225	11/01/11	R-55i	510
12-241	GENINORG	GELC	CAPA-12-1224	11/01/11	R-55i	510
12-241	GENINORG	GELC	CAPA-12-1225	11/01/11	R-55i	510
12-241	HEXP	GELC	CAPA-12-1224	11/01/11	R-55i	510
12-241	HEXP	GELC	CAPA-12-1225	11/01/11	R-55i	510
12-241	PEST/PCB	GELC	CAPA-12-1222	11/01/11	R-55i	510
12-241	PEST/PCB	GELC	CAPA-12-1224	11/01/11	R-55i	510
12-241	PEST/PCB	GELC	CAPA-12-1225	11/01/11	R-55i	510
12-241	SVOA	GELC	CAPA-12-1222	11/01/11	R-55i	510
12-241	SVOA	GELC	CAPA-12-1224	11/01/11	R-55i	510
12-241	SVOA	GELC	CAPA-12-1225	11/01/11	R-55i	510
12-241	VOA	GELC	CAPA-12-1221	11/01/11	R-55i	510

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-241	VOA	GELC	CAPA-12-1222	11/01/11	R-55i	510
12-241	VOA	GELC	CAPA-12-1224	11/01/11	R-55i	510
12-241	VOA	GELC	CAPA-12-1225	11/01/11	R-55i	510
12-242	GENINORG	GELC	CAPA-12-1223	11/01/11	R-55i	510
12-242	GENINORG	GELC	CAPA-12-1224	11/01/11	R-55i	510
12-242	GENINORG	GELC	CAPA-12-1225	11/01/11	R-55i	510
12-242	GENINORG	GELC	CAPA-12-1226	11/01/11	R-55i	510
12-242	METALS	GELC	CAPA-12-1223	11/01/11	R-55i	510
12-242	METALS	GELC	CAPA-12-1224	11/01/11	R-55i	510
12-242	METALS	GELC	CAPA-12-1225	11/01/11	R-55i	510
12-242	METALS	GELC	CAPA-12-1226	11/01/11	R-55i	510
12-243	RAD	GELC	CAPA-12-1224	11/01/11	R-55i	510
12-243	RAD	GELC	CAPA-12-1225	11/01/11	R-55i	510
12-244	RAD	ARSL	CAPA-12-1121	10/26/11	R-23i	524
12-244	RAD	ARSL	CAPA-12-1124	11/01/11	R-40	649.7
12-244	RAD	ARSL	CAPA-12-1127	10/28/11	R-37	929.3
12-244	RAD	ARSL	CAPA-12-1136	10/27/11	R-20	1147.1
12-244	RAD	ARSL	CAPA-12-1139	10/26/11	R-23	816
12-244	RAD	ARSL	CAPA-12-1147	10/27/11	R-39	859
12-244	RAD	ARSL	CAPA-12-1153	10/26/11	R-49	845
12-244	RAD	ARSL	CAPA-12-1156	10/27/11	R-49	905.6
12-244	RAD	ARSL	CAPA-12-1172	10/31/11	R-54	915
12-244	RAD	ARSL	CAPA-12-1178	10/31/11	R-37	1026
12-244	RAD	ARSL	CAPA-12-1187	11/01/11	R-52	1035.2
12-244	RAD	ARSL	CAPA-12-1189	11/01/11	R-52	1107
12-244	RAD	ARSL	CAPA-12-1201	10/28/11	R-55	860
12-244	RAD	ARSL	CAPA-12-1204	10/31/11	R-55	994.4
12-244	RAD	ARSL	CAPA-12-1224	11/01/11	R-55i	510
12-244	RAD	ARSL	CAPA-12-1225	11/01/11	R-55i	510
12-246	VOA	GELC	CAPA-12-1310	11/01/11	R-40	751.6
12-246	VOA	GELC	CAPA-12-1311	11/01/11	R-40	751.6
12-250	DIOX/FUR	CFA	CAPA-12-1124	11/01/11	R-40	649.7
12-250	DIOX/FUR	CFA	CAPA-12-1187	11/01/11	R-52	1035.2
12-250	DIOX/FUR	CFA	CAPA-12-1189	11/01/11	R-52	1107
12-251	GENINORG	GELC	CAPA-12-1124	11/01/11	R-40	649.7
12-251	GENINORG	GELC	CAPA-12-1187	11/01/11	R-52	1035.2
12-251	GENINORG	GELC	CAPA-12-1189	11/01/11	R-52	1107
12-251	HEXP	GELC	CAPA-12-1124	11/01/11	R-40	649.7
12-251	HEXP	GELC	CAPA-12-1187	11/01/11	R-52	1035.2
12-251	HEXP	GELC	CAPA-12-1189	11/01/11	R-52	1107
12-251	PEST/PCB	GELC	CAPA-12-1124	11/01/11	R-40	649.7

Periodic Monitoring Report for TA-54 Monitoring Group

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-251	PEST/PCB	GELC	CAPA-12-1187	11/01/11	R-52	1035.2
12-251	PEST/PCB	GELC	CAPA-12-1189	11/01/11	R-52	1107
12-251	SVOA	GELC	CAPA-12-1124	11/01/11	R-40	649.7
12-251	SVOA	GELC	CAPA-12-1187	11/01/11	R-52	1035.2
12-251	SVOA	GELC	CAPA-12-1189	11/01/11	R-52	1107
12-251	VOA	GELC	CAPA-12-1124	11/01/11	R-40	649.7
12-251	VOA	GELC	CAPA-12-1125	11/01/11	R-40	649.7
12-251	VOA	GELC	CAPA-12-1185	11/01/11	R-52	1035.2
12-251	VOA	GELC	CAPA-12-1187	11/01/11	R-52	1035.2
12-251	VOA	GELC	CAPA-12-1188	11/01/11	R-52	1107
12-251	VOA	GELC	CAPA-12-1189	11/01/11	R-52	1107
12-252	GENINORG	GELC	CAPA-12-1123	11/01/11	R-40	649.7
12-252	GENINORG	GELC	CAPA-12-1124	11/01/11	R-40	649.7
12-252	GENINORG	GELC	CAPA-12-1186	11/01/11	R-52	1035.2
12-252	GENINORG	GELC	CAPA-12-1187	11/01/11	R-52	1035.2
12-252	GENINORG	GELC	CAPA-12-1189	11/01/11	R-52	1107
12-252	GENINORG	GELC	CAPA-12-1190	11/01/11	R-52	1107
12-252	METALS	GELC	CAPA-12-1123	11/01/11	R-40	649.7
12-252	METALS	GELC	CAPA-12-1124	11/01/11	R-40	649.7
12-252	METALS	GELC	CAPA-12-1186	11/01/11	R-52	1035.2
12-252	METALS	GELC	CAPA-12-1187	11/01/11	R-52	1035.2
12-252	METALS	GELC	CAPA-12-1189	11/01/11	R-52	1107
12-252	METALS	GELC	CAPA-12-1190	11/01/11	R-52	1107
12-253	RAD	GELC	CAPA-12-1124	11/01/11	R-40	649.7
12-253	RAD	GELC	CAPA-12-1187	11/01/11	R-52	1035.2
12-253	RAD	GELC	CAPA-12-1189	11/01/11	R-52	1107
12-263	DIOX/FUR	CFA	CAPA-12-1168	11/02/11	R-54	830
12-263	DIOX/FUR	CFA	CAPA-12-1207	11/02/11	R-56	945
12-263	DIOX/FUR	CFA	CAPA-12-1209	11/02/11	R-56	1046.6
12-263	DIOX/FUR	CFA	CAPA-12-1212	11/02/11	R-56	1046.6
12-263	DIOX/FUR	CFA	CAPA-12-1213	11/02/11	R-56	1046.6
12-264	GENINORG	GELC	CAPA-12-1168	11/02/11	R-54	830
12-264	GENINORG	GELC	CAPA-12-1207	11/02/11	R-56	945
12-264	GENINORG	GELC	CAPA-12-1212	11/02/11	R-56	1046.6
12-264	GENINORG	GELC	CAPA-12-1213	11/02/11	R-56	1046.6
12-264	HEXP	GELC	CAPA-12-1168	11/02/11	R-54	830
12-264	HEXP	GELC	CAPA-12-1207	11/02/11	R-56	945
12-264	HEXP	GELC	CAPA-12-1212	11/02/11	R-56	1046.6
12-264	HEXP	GELC	CAPA-12-1213	11/02/11	R-56	1046.6
12-264	PEST/PCB	GELC	CAPA-12-1168	11/02/11	R-54	830
12-264	PEST/PCB	GELC	CAPA-12-1207	11/02/11	R-56	945

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-264	PEST/PCB	GELC	CAPA-12-1209	11/02/11	R-56	1046.6
12-264	PEST/PCB	GELC	CAPA-12-1212	11/02/11	R-56	1046.6
12-264	PEST/PCB	GELC	CAPA-12-1213	11/02/11	R-56	1046.6
12-264	SVOA	GELC	CAPA-12-1168	11/02/11	R-54	830
12-264	SVOA	GELC	CAPA-12-1207	11/02/11	R-56	945
12-264	SVOA	GELC	CAPA-12-1209	11/02/11	R-56	1046.6
12-264	SVOA	GELC	CAPA-12-1212	11/02/11	R-56	1046.6
12-264	SVOA	GELC	CAPA-12-1213	11/02/11	R-56	1046.6
12-264	VOA	GELC	CAPA-12-1167	11/02/11	R-54	830
12-264	VOA	GELC	CAPA-12-1168	11/02/11	R-54	830
12-264	VOA	GELC	CAPA-12-1207	11/02/11	R-56	945
12-264	VOA	GELC	CAPA-12-1208	11/02/11	R-56	945
12-264	VOA	GELC	CAPA-12-1209	11/02/11	R-56	1046.6
12-264	VOA	GELC	CAPA-12-1212	11/02/11	R-56	1046.6
12-264	VOA	GELC	CAPA-12-1213	11/02/11	R-56	1046.6
12-264	VOA	GELC	CAPA-12-1214	11/02/11	R-56	1046.6
12-265	GENINORG	GELC	CAPA-12-1168	11/02/11	R-54	830
12-265	GENINORG	GELC	CAPA-12-1169	11/02/11	R-54	830
12-265	GENINORG	GELC	CAPA-12-1206	11/02/11	R-56	945
12-265	GENINORG	GELC	CAPA-12-1207	11/02/11	R-56	945
12-265	GENINORG	GELC	CAPA-12-1210	11/02/11	R-56	1046.6
12-265	GENINORG	GELC	CAPA-12-1211	11/02/11	R-56	1046.6
12-265	GENINORG	GELC	CAPA-12-1212	11/02/11	R-56	1046.6
12-265	GENINORG	GELC	CAPA-12-1213	11/02/11	R-56	1046.6
12-265	METALS	GELC	CAPA-12-1168	11/02/11	R-54	830
12-265	METALS	GELC	CAPA-12-1169	11/02/11	R-54	830
12-265	METALS	GELC	CAPA-12-1206	11/02/11	R-56	945
12-265	METALS	GELC	CAPA-12-1207	11/02/11	R-56	945
12-265	METALS	GELC	CAPA-12-1210	11/02/11	R-56	1046.6
12-265	METALS	GELC	CAPA-12-1211	11/02/11	R-56	1046.6
12-265	METALS	GELC	CAPA-12-1212	11/02/11	R-56	1046.6
12-265	METALS	GELC	CAPA-12-1213	11/02/11	R-56	1046.6
12-266	RAD	GELC	CAPA-12-1168	11/02/11	R-54	830
12-266	RAD	GELC	CAPA-12-1207	11/02/11	R-56	945
12-266	RAD	GELC	CAPA-12-1212	11/02/11	R-56	1046.6
12-266	RAD	GELC	CAPA-12-1213	11/02/11	R-56	1046.6
12-276	HEXP	GELC	CAPA-12-1173	11/03/11	R-21	888.8
12-276	PEST/PCB	GELC	CAPA-12-1173	11/03/11	R-21	888.8
12-276	SVOA	GELC	CAPA-12-1173	11/03/11	R-21	888.8
12-276	VOA	GELC	CAPA-12-1173	11/03/11	R-21	888.8
12-276	VOA	GELC	CAPA-12-1175	11/03/11	R-21	888.8

Periodic Monitoring Report for TA-54 Monitoring Group

Request	Suite	Lab	Sample	Date	Location	Depth (ft)
12-277	GENINORG	GELC	CAPA-12-1173	11/03/11	R-21	888.8
12-277	GENINORG	GELC	CAPA-12-1174	11/03/11	R-21	888.8
12-277	METALS	GELC	CAPA-12-1173	11/03/11	R-21	888.8
12-277	METALS	GELC	CAPA-12-1174	11/03/11	R-21	888.8
12-277	RAD	GELC	CAPA-12-1173	11/03/11	R-21	888.8
12-283	GENINORG	GELC	CAPA-12-1113	11/04/11	R-23i	400.3
12-283	GENINORG	GELC	CAPA-12-1114	11/04/11	R-23i	400.3
12-283	HEXP	GELC	CAPA-12-1113	11/04/11	R-23i	400.3
12-283	METALS	GELC	CAPA-12-1113	11/04/11	R-23i	400.3
12-283	METALS	GELC	CAPA-12-1114	11/04/11	R-23i	400.3
12-283	PEST/PCB	GELC	CAPA-12-1113	11/04/11	R-23i	400.3
12-283	PEST/PCB	GELC	CAPA-12-1116	11/04/11	R-23i	400.3
12-283	RAD	GELC	CAPA-12-1113	11/04/11	R-23i	400.3
12-283	SVOA	GELC	CAPA-12-1113	11/04/11	R-23i	400.3
12-283	SVOA	GELC	CAPA-12-1116	11/04/11	R-23i	400.3
12-283	VOA	GELC	CAPA-12-1113	11/04/11	R-23i	400.3
12-283	VOA	GELC	CAPA-12-1115	11/04/11	R-23i	400.3
12-283	VOA	GELC	CAPA-12-1116	11/04/11	R-23i	400.3
12-285	DIOX/FUR	CFA	CAPA-12-1113	11/04/11	R-23i	400.3
12-285	DIOX/FUR	CFA	CAPA-12-1116	11/04/11	R-23i	400.3
12-285	DIOX/FUR	CFA	CAPA-12-1173	11/03/11	R-21	888.8
12-301	RAD	ARSL	CAPA-12-1168	11/02/11	R-54	830
12-301	RAD	ARSL	CAPA-12-1173	11/03/11	R-21	888.8
12-301	RAD	ARSL	CAPA-12-1207	11/02/11	R-56	945
12-301	RAD	ARSL	CAPA-12-1212	11/02/11	R-56	1046.6
12-301	RAD	ARSL	CAPA-12-1213	11/02/11	R-56	1046.6

<sup>a</sup> GENINORG = General inorganics.

<sup>b</sup> GELC = General Engineering Laboratories, Inc., Charleston, SC.

<sup>c</sup> HEXP = High explosives.

<sup>d</sup> PEST/PCB = Pesticides/polychlorinated biphenyls.

<sup>e</sup> RAD = Radiochemistry (not gamma).

<sup>f</sup> SVOA = Semivolatile organic analysis.

<sup>g</sup> VOA = Volatile organic analysis.

<sup>h</sup> DIOX/FUR = Dioxins and furans.

<sup>i</sup> CFA = Cape Fear Analytical, LLC.

<sup>j</sup> ARSL = American Radiation Services–Primary.