SUMMARY OF GROUNDWATER DATA REVIEWED IN SEPTEMBER 2013 THAT MEET NOTIFICATION REQUIREMENTS

INTRODUCTION

This report provides preliminary information to the New Mexico Environment Department (NMED) concerning recent groundwater monitoring data obtained by the Los Alamos National Laboratory (the Laboratory) under its interim monitoring plan and contains results for chemical constituents that meet the seven screening criteria laid out in the Compliance Order on Consent (Consent Order). The report covers groundwater samples taken from wells or springs (listed in the accompanying table) that provide surveillance of the groundwater zones indicated in the table.

The report includes one table, *Table 1: NMED 8-13 Groundwater Report*. This table contains some values that are reported when they are detected for the first time since June 14, 2007, or are greater than other data collected since that time (as specified in the Consent Order). These reported data may be similar to data gathered before June 14, 2007.

This table includes the following:

- Additional comments on results that appear to be exceptional or based on consideration of monitoring data acquired before the current result (using statistics described below)
- Supplemental information summarizing monitoring results obtained before the current result
- Sampling date, name of the well or spring, location of the well or spring, depth of the screened interval, groundwater zone sampled, analytical result, detection limit, values for regulatory standards or screening levels, and analytical and secondary validation qualifiers. Additional information describing the locations and analytical data is also included. All data have been through secondary validation.

In accordance with the Consent Order, the screening levels used include the U.S. Environmental Protection Agency (EPA) maximum contaminant levels (MCLs), the New Mexico groundwater standards, and the EPA Regional Screening Levels for tap water (for compounds having no other regulatory standard). The EPA Regional Screening Levels for tap water are either for cancer (10^{-6} excess risk) or noncancer risk values. The data were screened using 10 times the EPA's 10^{-6} excess cancer risk values, to achieve 10^{-5} excess cancer risk as indicated in Section VIII.A.1 of the Consent Order.

Background levels applied in Criteria 2 and 5 are the most recent NMED-approved 95% upper tolerance limits for background for each groundwater zone as set forth in the "Groundwater Background Investigation Report," prepared under Section IV.A.3.d of the Consent Order.

DESCRIPTION OF TABLE

The table is divided into separate categories that correspond to the seven screening criteria in the Consent Order. Some data meet more than one of the criteria and appear in the table multiple times. The table also presents only the instances where the results exceed criteria; therefore, not all seven criteria may appear in the table.

The criteria are as follows:

CA. The Respondents shall notify the Department orally within one business day after review of the analytical data if such data show detection of a contaminant in a well screen interval or spring at a concentration that exceeds either the NMWQCC water quality standard or the federal MCL if that contaminant has not previously exceeded such water quality standard or maximum contaminant level in such well screen interval or spring.

C1. Detection of a contaminant that is an organic compound in a spring or screened interval of a well if that contaminant has not previously been detected in the spring or screened interval.

C2. Detection of a contaminant that is a metal or other inorganic compound at a concentration above the background level in a spring or screened interval of a well if that contaminant has not previously exceeded the background level in the spring or screened interval.

C3. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal maximum contaminant level, or if there is no such standard for the contaminant, one-half the EPA Region 6 human health medium-specific screening level for tap water (now the EPA Regional Screening Levels for tap water), if that contaminant has not previously exceeded one-half such standard or screening level in the spring or screened interval.

C4. Detection of perchlorate in a spring or screened interval of a well at a concentration of 2 µg/L or greater if perchlorate at such concentration has not previously been detected in the spring or screened interval.

C5. Detection of a contaminant that is a metal or other inorganic compound in a spring or screened interval of a well at a concentration that exceeds 2 times the background level for the third consecutive sampling of the spring or screened interval.

C6. Detection of a contaminant in a spring or screened interval of a well at a concentration that exceeds either one-half the New Mexico water quality standard or one-half the federal MCL, and that has increased for the third consecutive sampling of that spring or screened interval.

The next seven columns of the table give information on monitoring results obtained prior to the current result. The columns provide summary statistics for the samples collected since January 1, 2000, for the same analyte and field preparation (for example, filtered samples). The information includes the date of the first sampling event included in the statistics, the numbers of sampling events and samples analyzed, the number of detections, and the minimum, maximum, and median concentration for detections. This information indicates whether the new result is consistent with the range of earlier data.

The subsequent columns contain location and sampling information:

Hdr 1—canyon where monitoring location is found

Zone—groundwater zone sampled by monitoring location (such as alluvial spring)

Location—monitoring location name

Screen Depth—depth of top of well screen in feet (0 for springs, –1 if unknown)

Start Date—sample date

Fld QC Type Code—identifies regular samples (REG) or field duplicates (FD)

Fld Prep—identifies whether samples are filtered or unfiltered

Lab Sample Type Code—indicates whether result is a primary (customer) sample or reanalysis

Anyl Suite—analytical suite (such as volatile organic compounds) for analyzed compound

Analyte Desc—name of analyte

Analyte—chemical symbol for analyte or CAS (Chemical Abstracts Service) number for organic compounds

Std Result—analytical result in standard measurement units

Result/Median—ratio of the Std Result to the median of all detections since 2000

LVL Type/Risk Code—type of regulatory standard, screening level, or background value (indicating groundwater zone) used for comparison

Screen Level—value of the LVL Type/Risk Code

Exceedance Ratio—ratio of Std Result to LVL Type/Risk Code. In earlier versions of this report, the ratio was divided by the basis for comparison in the criterion, but that is no longer the case. For example, for a criterion (such as C3) that compares the value to one-half the standard, a value equal to a standard previously had an exceedance ratio of 2. The current report shows this ratio as 1.

Std Mdl—method detection limit in standard measurement units

Std UOM—standard units of measurement

Dilution Factor—amount by which the sample was diluted to measure the concentration

Lab Qual Code—analytical laboratory qualifiers indicating analytical quality of the sample

Concat Flag Code—secondary validation qualifier

Concat Reason Code—concatenated secondary validation codes explaining assignment of qualifiers

Anyl Meth Code—analytical method number

Lab Code—analytical laboratory name

Comment—comment on the analytical result

Table 1: NMED 8-13 Groundwater Report

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Std Result	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Uncert	Std Mda	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C2	19	23	06/27/05	137	204	147	23	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-33 S1	995.5	07/10/13	REG	F	INIT	GENINORG	Total Dissolved Solids	204	LANL Reg BG LVL	191.7	1.1			3.4	mg/L	1		J	I10a	EPA:160.1	GELC	
C2	26	37	12/19/05	0.014	0.576	0.023	3	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16r	600	07/24/13	FD	F	INIT	GENINORG	Ammonia as Nitrogen	0.576	LANL Reg BG LVL	0.05	11.5			0.017	mg/L	1		NQ	NQ	EPA:350.1	GELC	
C2	14	16	06/13/05	0.0666	0.461	0.433	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16 S2	863.4	07/24/13	REG	F	INIT	GENINORG	Perchlorate	0.461	LANL Reg BG LVL	0.46	1			0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C2	20	22	10/12/06	68.6	68.6	68.6	1	Sandia Canyon	Regional	R-10 S1	874	07/17/13	FD	F	INIT	METALS	Aluminum	68.6	LANL Reg BG LVL	68	1			68	ug/L	1	J	J	J_LAB	SW-846:6010B	GELC	
C5	26	31	06/14/05	0.368	4.15	2.25	31	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	07/22/13	REG	F	INIT	GENINORG	Perchlorate	3.33	LANL Avl BG LVL	0.05	66.6			0.25	ug/L	5		NQ	NQ	SW-846:6850	GELC	
C5	46	51	03/12/01	144	1290	306.5	50	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	07/22/13	REG	F	INIT	GENINORG	Total Dissolved Solids	310	LANL Avl BG LVL	139	2.2			3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	32	37	03/12/01	0.092	0.886	0.36	27	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Alluvial	MCO-3	2	07/22/13	REG	F	INIT	GENINORG	Total Kjeldahl Nitrogen	0.642	LANL Avl BG LVL	0.04	16.1			0.033	mg/L	1		NQ	NQ	EPA:351.2	GELC	
C5	8	9	05/20/11	2.03	18.3	13.2	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	07/15/13	REG	F	INIT	METALS	Chromium	12.6	LANL Reg BG LVL	5.75	2.2			2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	8	9	05/20/11	12.3	1100	113	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	07/15/13	REG	F	INIT	METALS	Manganese	12.3	LANL Reg BG LVL	2.94	4.2			2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	minimum, results lower since treatment
C5	8	9	05/20/11	2.96	7.37	6.13	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	07/15/13	REG	F	INIT	GENINORG	Perchlorate	6.67	LANL Reg BG LVL	0.46	14.5			1	ug/L	20		NQ	NQ	SW-846:6850	GELC	
C5	8	9	05/20/11	1.46	27.4	1.96	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	07/15/13	REG	F	INIT	GENINORG	Potassium	11.8	LANL Reg BG LVL	2.63	4.5			0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	8	9	05/20/11	0.77	10.1	1.14	9	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	07/15/13	REG	UF	INIT	GENINORG	Total Organic Carbon	0.81	LANL Reg BG LVL	0.33	2.5			0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	8	9	05/20/11	0.0531	11.8	3.92	6	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S1	1125	07/15/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	4.61	LANL Reg BG LVL	0.16	28.8			0.085	mg/L	5		NQ	NQ	EPA:365.4	GELC	decrease from high of 12 ug/L
C5	8	8	05/24/11	148	5590	599	7	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	07/16/13	REG	F	INIT	METALS	Iron	599	LANL Reg BG LVL	21	28.5			30	ug/L	1		NQ	NQ	SW-846:6010B	GELC	results lower since treatment
C5	8	8	05/24/11	22.2	908	142.5	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	07/16/13	REG	F	INIT	METALS	Manganese	111	LANL Reg BG LVL	2.94	37.8			2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	results lower since treatment
C5	8	8	05/24/11	1.51	24.4	7.42	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	07/16/13	REG	F	INIT	GENINORG	Potassium	14.1	LANL Reg BG LVL	2.63	5.4			0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	8	8	05/24/11	0.573	14.7	1.995	8	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	07/16/13	REG	UF	INIT	GENINORG	Total Organic Carbon	1.36	LANL Reg BG LVL	0.33	4.1			0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	8	8	05/24/11	0.0389	19.7	7.53	5	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-61 S2	1220.4	07/16/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	7.53	LANL Reg BG LVL	0.16	47.1			0.17	mg/L	10		NQ	NQ	EPA:365.4	GELC	decrease from high of 20 ug/L
C5	15	18	03/06/10	4.68	8.34	7.015	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	07/09/13	REG	F	INIT	GENINORG	Chloride	7.6	LANL Reg BG LVL	3.57	2.1			0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	15	20	03/06/10	49.8	103	78.9	20	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	07/09/13	REG	F	INIT	METALS	Chromium	95.4	LANL Reg BG LVL	5.75	16.6			2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	15	18	03/06/10	1.51	8.66	3.445	18	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	07/09/13	REG	F	INIT	METALS	Nickel	8.66	LANL Reg BG LVL	3.09	2.8			0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	15	18	03/06/10	0.44	2.46	1.12	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-50 S1	1077	07/09/13	REG	UF	INIT	GENINORG	Total Organic Carbon	1.16	LANL Reg BG LVL	0.33	3.5			0.33	mg/L	1		NQ	NQ	SW-846:9060	GELC	
C5	14	16	05/12/04	2.14	146	13	16	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16 S2	863.4	07/24/13	REG	F	INIT	METALS	Manganese	13.2	LANL Reg BG LVL	2.94	4.5			2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	13	14	03/19/04	3.74	68	13.9	14	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Regional	R-16 S4	1237	07/25/13	REG	F	INIT	METALS	Manganese	68	LANL Reg BG LVL	2.94	23.1			2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	14	16	07/26/00	143	271	170	16	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/12/13	REG	F	INIT	GENINORG	Alkalinity-CO3+HCO3	157	LANL Avl BG LVL	76	2.1			0.725	mg/L	1		NQ	NQ	EPA:310.1	GELC	
C5	14	16	06/27/00	30	48.7	36.8	16	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/12/13	REG	F	INIT	GENINORG	Sodium	37	LANL Avl BG LVL	15.54	2.4			0.1	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	10	10	05/11/05	357	507	418	10	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/12/13	REG	F	INIT	METALS	Strontium	357	LANL Avl BG LVL	120	3			1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	14	16	06/27/00	5.8	12.7	7.975	10	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Alluvial	LLAO-4	5.24	06/12/13	REG	F	INIT	METALS	Vanadium	8.92	LANL Avl BG LVL	1	8.9			1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	21	29	10/21/08	0.194	0.683	0.506	29	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	GENINORG	Bromide	0.595	LANL Int BG LVL	0.03	19.8			0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	21	31	10/21/08	59.5	71.7	66.6	31	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	GENINORG	Calcium	69.7	LANL Int BG LVL	17.31	4			0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	21	29	10/21/08	53.4	68.2	59.8	29	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	GENINORG	Chloride	56.4	LANL Int BG LVL	7.78	7.2			0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	21	36	10/21/08	406	658	506.5	36	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	METALS	Chromium	406	LANL Int BG LVL	1	406			2	ug/L	1		NQ	NQ	SW-846:6020	GELC	minimum,steady decrease
C5	21	31	10/21/08	13.1	16.7	15.4	31	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	GENINORG	Magnesium	16.4	LANL Int BG LVL	6.12	2.7			0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	21	31	10/21/08	14.5	19.3	17	31	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	METALS	Nickel	18	LANL Int BG LVL	1	18			0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	21	29	10/21/08	0.936	1.12	1.01	29	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	GENINORG	Perchlorate	0.961	LANL Int BG LVL	0.05	19.2			0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	21	31	10/21/08	278	350	322	31	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	METALS	Strontium	326	LANL Int BG LVL	154.8	2.1			1	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	21	29	10/21/08	354	451	414	29	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	GENINORG	Total Dissolved Solids	401	LANL Int BG LVL	127	3.2			3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	21	31	10/21/08	1.2	2.11	1.51	31	Sandia Canyon	Intermediate	SCI-2	548	07/23/13	REG	F	INIT	RAD	Uranium	2	LANL Int BG LVL	0.72	2.8			0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	5	5	08/08/11	0.136	0.19	0.146	5	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/11/13	REG	F	INIT	GENINORG	Bromide	0.142	LANL Int BG LVL	0.03	4.7			0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	5	5	08/08/11	16	19.1	18.6	5	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/11/13	REG	F	INIT	GENINORG	Chloride	16	LANL Int BG LVL	7.78	2.1			0.335	mg/L	5		NQ	NQ	EPA:300.0	GELC	
C5	5	5	08/08/11	4.86	5.58	5.38	5	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/11/13	REG	F	INIT	GENINORG	Perchlorate	5.48	LANL Int BG LVL	0.05	109.6			0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	at this level here and Basalt Spring since late 2008
C5	5	5	08/08/11	0.259	0.438	0.363	5	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/11/13	REG	F	INIT	GENINORG	Total Phosphate as Phosphorus	0.317	LANL Int BG LVL	0.08	4			0.017	mg/L	1		NQ	NQ	EPA:365.4	GELC	

Criteria Code	Visits	Samples	First Event	Min Detect	Max Detect	Median Detect	Num Detect	Hdr 1	Zone	Location	Screen Depth	Start Date	Fld QC Type Code	Fld Prep Code	Lab Sample Type Code	Anyl Suite Code	Analyte Desc	Std Result	LVL Type/Risk Code	Screen Level	Exceedance Ratio	Std Uncert	Std Mda	Std Mdl	Std Uom	Dilution Factor	Lab Qual Code	Concat Flag Code	Concat Reason Code	Anyl Meth Code	Lab Code	Comment
C5	5	5	08/08/11	1.39	2.16	1.76	5	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/11/13	REG	F	INIT	RAD	Uranium	2.06	LANL Int BG LVL	0.72	2.9			0.067	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	19	22	09/19/00	0.072	0.103	0.0951	7	Sandia Canyon	Intermediate	R-12 S2	504.5	07/22/13	REG	F	INIT	GENINORG	Bromide	0.0796	LANL Int BG LVL	0.03	2.7			0.067	mg/L	1	J	J	J_LAB	EPA:300.0	GELC	
C5	19	20	09/19/00	23.6	180	37.85	20	Sandia Canyon	Intermediate	R-12 S2	504.5	07/22/13	REG	F	INIT	METALS	Manganese	31.2	LANL Int BG LVL	2	15.6			2	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	15	16	02/01/06	0.838	1.16	0.957	15	Sandia Canyon	Intermediate	R-12 S2	504.5	07/22/13	REG	F	INIT	GENINORG	Perchlorate	0.838	LANL Int BG LVL	0.05	16.8			0.05	ug/L	1		NQ	NQ	SW-846:6850	GELC	
C5	7	11	03/26/12	1.64	8.74	7.85	11	Sandia Canyon	Regional	R-62	1158.4	07/19/13	FD	F	INIT	GENINORG	Chloride	8.07	LANL Reg BG LVL	3.57	2.3			0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	7	11	03/26/12	1.64	8.74	7.85	11	Sandia Canyon	Regional	R-62	1158.4	07/19/13	REG	F	INIT	GENINORG	Chloride	8.07	LANL Reg BG LVL	3.57	2.3			0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	7	11	03/26/12	123	198	133	11	Sandia Canyon	Regional	R-62	1158.4	07/19/13	FD	F	INIT	METALS	Chromium	133	LANL Reg BG LVL	5.75	23.1			2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	7	11	03/26/12	123	198	133	11	Sandia Canyon	Regional	R-62	1158.4	07/19/13	REG	F	INIT	METALS	Chromium	136	LANL Reg BG LVL	5.75	23.7			2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	19	25	11/05/08	2.35	55.7	15.15	22	Sandia Canyon	Regional	R-43 S1	903.9	07/16/13	REG	F	INIT	METALS	Chromium	55.7	LANL Reg BG LVL	5.75	9.7			2	ug/L	1		NQ	NQ	SW-846:6020	GELC	maximum, steady increase
C5	19	19	11/05/08	5.05	6.03	5.46	18	Sandia Canyon	Regional	R-43 S1	903.9	07/16/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	5.35	LANL Reg BG LVL	0.89	6			0.085	mg/L	5		NQ	NQ	EPA:353.2	GELC	
C5	34	44	05/17/05	13.5	34.9	20.95	44	Sandia Canyon	Regional	R-11	855	07/12/13	REG	F	INIT	METALS	Chromium	26.4	LANL Reg BG LVL	5.75	4.6			2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	33	41	05/17/05	2.27	7.43	5.07	41	Sandia Canyon	Regional	R-11	855	07/12/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	6.05	LANL Reg BG LVL	0.89	6.8			0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	32	39	05/17/05	0.338	0.984	0.581	25	Sandia Canyon	Regional	R-11	855	07/12/13	REG	UF	INIT	GENINORG	Total Organic Carbon	0.77	LANL Reg BG LVL	0.33	2.3			0.33	mg/L	1	J	J	J_LAB	SW-846:9060	GELC	
C5	32	45	06/15/05	25.4	51.9	36.9	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	METALS	Boron	51.9	LANL Int BG LVL	15.12	3.4			15	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	32	45	06/15/05	0.212	0.702	0.604	43	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Bromide	0.621	LANL Int BG LVL	0.03	20.7			0.067	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	32	45	06/15/05	42.8	75.5	64.5	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Calcium	69.7	LANL Int BG LVL	17.31	4			0.05	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	32	45	06/15/05	21.2	64.8	45	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Chloride	61.7	LANL Int BG LVL	7.78	7.9			0.67	mg/L	10		NQ	NQ	EPA:300.0	GELC	
C5	32	48	06/15/05	29.4	73.2	49.15	48	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	METALS	Chromium	69.6	LANL Int BG LVL	1	69.6			2	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	32	45	06/15/05	0.412	0.635	0.538	42	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Fluoride	0.626	LANL Int BG LVL	0.23	2.7			0.033	mg/L	1		NQ	NQ	EPA:300.0	GELC	
C5	32	45	06/15/05	8.49	15.7	13	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Magnesium	14.4	LANL Int BG LVL	6.12	2.4			0.11	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	32	45	06/15/05	2.9	41.3	11.7	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	METALS	Nickel	40.7	LANL Int BG LVL	1	40.7			0.5	ug/L	1		NQ	NQ	SW-846:6020	GELC	
C5	32	45	06/15/05	7.62	20.4	11.7	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Nitrate-Nitrite as Nitrogen	7.69	LANL Int BG LVL	2.41	3.2			0.17	mg/L	10		NQ	NQ	EPA:353.2	GELC	
C5	32	45	06/15/05	56.3	246	95.2	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Perchlorate	60.8	LANL Int BG LVL	0.05	1216			5	ug/L	100		J+	PE12f	SW-846:6850	GELC	
C5	32	45	06/15/05	19.5	28.8	25.1	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Sodium	26.3	LANL Int BG LVL	12.19	2.2			0.1	mg/L	1		NQ	NQ	SW-846:6010B	GELC	
C5	32	45	06/15/05	298	497	404	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	GENINORG	Total Dissolved Solids	413	LANL Int BG LVL	127	3.3			3.4	mg/L	1		NQ	NQ	EPA:160.1	GELC	
C5	32	45	06/15/05	15.9	288	34.1	45	Mortandad Canyon (includes Ten Site Canyon and Canada del Buey)	Intermediate	MCOI-6	686	07/09/13	REG	F	INIT	METALS	Zinc	25.3	LANL Int BG LVL	2	12.7			3.3	ug/L	1		NQ	NQ	SW-846:6010B	GELC	
C6	5	5	08/08/11	4.86	5.58	5.38	5	Lower Los Alamos Canyon (San Ildefonso Pueblo)	Intermediate Spring	Vine Tree Spring	0	06/11/13	REG	F	INIT	GENINORG	Perchlorate	5.48	Consent Order	4	1.4			0.5	ug/L	10		NQ	NQ	SW-846:6850	GELC	at this level here and Basalt Spring since late 2008