

DOE Oversight Bureau, New Mexico Environment Department

**Groundwater Monitoring at
Sandia National Laboratories/New Mexico
Tijeras Arroyo Groundwater Area of Concern**

**Conducted by the
New Mexico Environment Department DOE Oversight Bureau
for FFY 2016 Q-4**

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Final Report

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The purpose of this communication is to transmit groundwater quality data collected by the New Mexico Environment Department DOE Oversight Bureau from Tijeras Arroyo Groundwater Area of Concern monitoring wells during fourth quarter of Federal Fiscal Year (FFY) 2016.

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Introduction

The New Mexico Environment Department (NMED) DOE Oversight Bureau (DOE-OB or Bureau) has compiled and assessed groundwater data collected during August and September 2016. The Bureau collected groundwater samples from Tijeras Arroyo Groundwater (TAG) Area of Concern (AOC) monitoring wells PGS-2, TA1-W-01, TA1-W-03, TA1-W-04, TA1-W-05, TA1-W-06 (plus duplicate), TA1-W-08, TA2-NW1-595, TA2-W-01, TA2-W-19, TA2-W-26, TA2-W-27, TA2-W-28, TJA-2, TJA-3, TJA-4, TJA-6, TJA-7 and WYO-3.

Split samples were collected using standard Sandia National Laboratories/New Mexico (SNL/NM) sampling procedures and equipment. Samples were analyzed for total target analyte list metals plus uranium, alkalinity, anions, nitrate-nitrite as nitrogen, volatile organic compounds (VOCs), gross alpha, gross beta, gamma emitting isotopes and tritium. Due to limited volume, samples collected from TA1-W-03 were analyzed for VOCs and nitrate-nitrite only. The Bureau used ALS Environmental Laboratory located in Fort Collins, Colorado to analyze and report data results from samples collected at TAG AOC. ALS Environmental is an independent analytical laboratory under contract with the NMED.

Nitrate levels exceeded the U.S. Environmental Protection Agency (EPA) maximum contaminant level (MCL), or drinking water standard of 10 mg/L in samples collected from TAG monitoring wells TA2-W-19, TA2-W-28, TJA-2, TJA-4 and TJA-7.

Data Assessment

All groundwater samples were collected and analyzed in accordance with U.S. EPA protocols. Data results are compared to applicable maximum contaminant levels (MCLs) established by the U.S. EPA National Primary Drinking Water Regulations (40 CFR 141), National Primary Drinking Water Standards, EPA, July 2002.

Results

Analytical results for total Target Analyte List (TAL) metals plus uranium are presented in Table-1. All metal concentrations were below established MCLs.

Analytical results for alkalinity, major anions (as bromide, chloride, fluoride, and sulfate) and nitrate-nitrite as nitrogen are listed in Table-2. No results exceeded MCLs, except for nitrate-nitrite. Nitrate-nitrite concentrations exceeded the EPA MCL of 10 mg/L at monitoring wells TA2-W-19 (11 mg/L), TA2-W-28 (20 mg/L), TJA-2 (12 mg/L), TJA-4 (28 mg/L) and TJA-7 (22 mg/L).

Volatile organic compounds detected at concentrations above the method

detection limits (MDLs) are presented in Table-3. The VOCs detected at low concentrations include: chloroform, dichloroethane [1,1-], dichloroethene[1,1-], dichloroethene[cis-1,2-], tetrachloroethene (PCE) and trichloroethene (TCE). Concentrations of TCE ranged from 0.43 µg/L at monitoring well TA1-W-06 to 4.7 µg/L at TJA-2. No VOCs were detected above their associated drinking water standards. Table-4 summarizes the laboratory MDLs for the remaining VOCs analyzed from the samples collected at TAG monitoring wells.

Analytical results for radiochemistry samples are listed in Table-5. Samples were analyzed for gross alpha, gross beta, gamma emitting isotopes and tritium. No isotopes were detected above U.S. EPA drinking water standards.

Conclusion

The DOE-OB collected split groundwater samples from a total of nineteen (19) TAG AOC monitoring wells during FFY 2016 Q-4. No parameters were detected above EPA drinking water standards, except for nitrate-nitrite as nitrogen at monitoring wells TA2-W-19, TA2-W-28, TJA-2, TJA-4 and TJA-7. Nitrate has been identified as a contaminant of concern at TAG and results detected during fourth quarter FFY 2016 are similar to historical concentrations.

The DOE-OB will continue to collect split samples with SNL/NM from TAG groundwater monitoring wells and continue to independently monitor TAG wells for contaminants of concern and make the data reports available to the public.

References

Sandia National Laboratories/New Mexico (SNL/NM). "Annual Groundwater Monitoring Report Calendar Year 2015." Sandia National Laboratories, Albuquerque, New Mexico.

U.S. EPA National Primary Drinking Water Regulations (40 CFR 141), National Primary Drinking Water Standards, EPA, July 2002.

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**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
PGS-2 19-Aug-16	Aluminum	0.51	NE	0.1	0.014		SW-846:6020
	Antimony	0.00029	0.006	0.001	0.000084	J	SW-846:6020
	Arsenic	0.001	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.079	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	65	NE	1	0.061		SW-846:6020
	Chromium	0.034	0.10	0.01	0.0011		SW-846:6020
	Cobalt	0.00036	NE	0.005	0.00007	J	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.53	NE	0.1	0.0053	JB	SW-846:6020
	Lead	0.0011	NE	0.002	0.00016	JB	SW-846:6020
	Magnesium	13	NE	0.1	0.02		SW-846:6020
	Manganese	0.018	NE	0.005	0.0003		SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.051	NE	0.02	0.0042		SW-846:6020
	Potassium	2.7	NE	1	0.32		SW-846:6020
	Selenium	0.0019	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	35	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0019	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0038	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0099	NE	0.1	0.0091	J	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

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Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA1-W-01 22-Aug-16	Aluminum	0.014	NE	0.1	0.014	U	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00032	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.054	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	61	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.0053	NE	0.1	0.0053	U	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	12	NE	0.1	0.02	B	SW-846:6020
	Manganese	0.00035	NE	0.005	0.0003	J	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	2.1	NE	1	0.32		SW-846:6020
	Selenium	0.0014	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	26	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.003	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0044	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

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Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA1-W-04 16-Aug-16	Aluminum	0.018	NE	0.1	0.014	J	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00037	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.062	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	65	NE	1	0.061		SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.012	NE	0.1	0.0053	JB	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	11	NE	0.1	0.02		SW-846:6020
	Manganese	0.00036	NE	0.005	0.0003	J	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	2.1	NE	1	0.32		SW-846:6020
	Selenium	0.0016	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	24	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0031	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0043	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

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Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA1-W-05 29-Aug-16	Aluminum	0.018	NE	0.1	0.014	JB	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00046	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.037	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00045	0.004	0.0005	0.00027	J	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	79	NE	1	0.061		SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.011	NE	0.1	0.0053	J	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	11	NE	0.1	0.02		SW-846:6020
	Manganese	0.00061	NE	0.005	0.0003	J	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	2.1	NE	1	0.32		SW-846:6020
	Selenium	0.0013	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	32	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0032	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.003	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

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Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA1-W-06 31-Aug-16	Aluminum	0.028	NE	0.1	0.014	JB	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00052	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.026	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	120	NE	1	0.061		SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.021	NE	0.1	0.0053	J	SW-846:6020
	Lead	0.00022	NE	0.002	0.00016	JB	SW-846:6020
	Magnesium	16	NE	0.1	0.02		SW-846:6020
	Manganese	0.00064	NE	0.005	0.0003	J	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	2	NE	1	0.32		SW-846:6020
	Selenium	0.0076	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	32	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0011	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0034	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

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Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA1-W-06 31-Aug-16 DUP	Aluminum	0.022	NE	0.1	0.014	JB	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.0004	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.026	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	120	NE	1	0.061		SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.018	NE	0.1	0.0053	J	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	15	NE	0.1	0.02		SW-846:6020
	Manganese	0.00056	NE	0.005	0.0003	J	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.005	NE	0.02	0.0042	J	SW-846:6020
	Potassium	1.9	NE	1	0.32		SW-846:6020
	Selenium	0.0078	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	31	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0011	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0033	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

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Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA1-W-08 24-Aug-16	Aluminum	0.014	NE	0.1	0.014	U	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00034	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.021	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	300	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.0053	NE	0.1	0.0053	U	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	39	NE	0.1	0.02	B	SW-846:6020
	Manganese	0.0003	NE	0.005	0.0003	U	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	2.9	NE	1	0.32		SW-846:6020
	Selenium	0.025	0.05	0.01	0.00066		SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	82	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0015	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0025	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

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Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA2-NW1-595 23-Aug-16	Aluminum	0.014	NE	0.1	0.014	U	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00023	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.045	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	93	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.0053	NE	0.1	0.0053	U	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	15	NE	0.1	0.02	B	SW-846:6020
	Manganese	0.0003	NE	0.005	0.0003	U	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.005	NE	0.02	0.0042	JB	SW-846:6020
	Potassium	2.1	NE	1	0.32		SW-846:6020
	Selenium	0.0061	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	28	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.002	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.003	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA2-W-01 12-Sep-16	Aluminum	0.031	NE	0.1	0.014	J	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00064	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.073	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	80	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.042	NE	0.1	0.0053	JB	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	11	NE	0.1	0.02		SW-846:6020
	Manganese	0.003	NE	0.005	0.0003	JB	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0095	NE	0.02	0.0042	JB	SW-846:6020
	Potassium	1.7	NE	1	0.32		SW-846:6020
	Selenium	0.0056	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	21	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.00092	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0035	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA2-W-19 15-Sep-16	Aluminum	0.014	NE	0.1	0.014	U	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00063	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.052	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	72	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.017	NE	0.1	0.0053	JB	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	11	NE	0.1	0.02		SW-846:6020
	Manganese	0.00033	NE	0.005	0.0003	JB	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	1.8	NE	1	0.32		SW-846:6020
	Selenium	0.0044	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	22	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0011	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0039	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.14	NE	0.1	0.0091		SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA2-W-26 14-Sep-16	Aluminum	0.022	NE	0.1	0.014	J	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00042	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.065	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	220	NE	1	0.061	B	SW-846:6020
	Chromium	0.0012	0.10	0.01	0.0011	J	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.027	NE	0.1	0.0053	JB	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	27	NE	0.1	0.02		SW-846:6020
	Manganese	0.00072	NE	0.005	0.0003	JB	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.011	NE	0.02	0.0042	JB	SW-846:6020
	Potassium	2.6	NE	1	0.32		SW-846:6020
	Selenium	0.02	0.05	0.01	0.00066		SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	41	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0012	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0023	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA2-W-27 8-Sep-16	Aluminum	0.17	NE	0.1	0.014		SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00043	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.058	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	100	NE	1	0.061		SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	J	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.01	NE	0.1	0.0053	J	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	14	NE	0.1	0.02		SW-846:6020
	Manganese	0.00038	NE	0.005	0.0003	JB	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	1.9	NE	1	0.32		SW-846:6020
	Selenium	0.0077	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	28	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0011	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0035	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA2-W-28 20-Sep-16	Aluminum	0.069	NE	0.1	0.014	JB	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00061	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.22	2	0.005	0.00023	B	SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	61	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.063	NE	0.1	0.0053	JB	SW-846:6020
	Lead	0.00045	NE	0.002	0.00016	JB	SW-846:6020
	Magnesium	11	NE	0.1	0.02	B	SW-846:6020
	Manganese	0.0003	NE	0.005	0.0003	U	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	1.7	NE	1	0.32		SW-846:6020
	Selenium	0.0033	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	18	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0014	0.03	0.0001	0.000027	B	SW-846:6020	
Vanadium	0.0041	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TJA-2 19-Sep-16	Aluminum	0.014	NE	0.1	0.014	U	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00069	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.044	2	0.005	0.00023	B	SW-846:6020
	Beryllium	0.00039	0.004	0.0005	0.00027	J	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	76	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.0053	NE	0.1	0.0053	U	SW-846:6020
	Lead	0.0005	NE	0.002	0.00016	JB	SW-846:6020
	Magnesium	11	NE	0.1	0.02	B	SW-846:6020
	Manganese	0.0003	NE	0.005	0.0003	U	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	1.7	NE	1	0.32		SW-846:6020
	Selenium	0.0038	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	22	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0013	0.03	0.0001	0.000027	B	SW-846:6020	
Vanadium	0.0038	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TJA-3 13-Sep-16	Aluminum	0.015	NE	0.1	0.014	J	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00048	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.043	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	64	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.018	NE	0.1	0.0053	JB	SW-846:6020
	Lead	0.00016	NE	0.002	0.00016	U	SW-846:6020
	Magnesium	10	NE	0.1	0.02		SW-846:6020
	Manganese	0.0003	NE	0.005	0.0003	U	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0073	NE	0.02	0.0042	JB	SW-846:6020
	Potassium	1.8	NE	1	0.32		SW-846:6020
	Selenium	0.0016	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	23	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0021	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0031	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TJA-4 22-Sep-16	Aluminum	0.17	NE	0.1	0.014	B	SW-846:6020
	Antimony	0.00051	0.006	0.001	0.000084	J	SW-846:6020
	Arsenic	0.00071	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.19	2	0.005	0.00023	B	SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	67	NE	1	0.061	B	SW-846:6020
	Chromium	0.0061	0.10	0.01	0.0011	J	SW-846:6020
	Cobalt	0.00011	NE	0.005	0.00007	J	SW-846:6020
	Copper	0.0045	NE	0.02	0.0011	J	SW-846:6020
	Iron	0.21	NE	0.1	0.0053	B	SW-846:6020
	Lead	0.00062	NE	0.002	0.00016	JB	SW-846:6020
	Magnesium	13	NE	0.1	0.02	B	SW-846:6020
	Manganese	0.0018	NE	0.005	0.0003	JB	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0066	NE	0.02	0.0042	J	SW-846:6020
	Potassium	2.9	NE	1	0.32		SW-846:6020
	Selenium	0.0022	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	25	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0029	0.03	0.0001	0.000027	B	SW-846:6020	
Vanadium	0.0043	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.041	NE	0.1	0.0091	JB	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TJA-6 30-Aug-16	Aluminum	0.036	NE	0.1	0.014	JB	SW-846:6020
	Antimony	0.00023	0.006	0.001	0.000084	JB	SW-846:6020
	Arsenic	0.00058	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.068	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	62	NE	1	0.061		SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.052	NE	0.1	0.0053	J	SW-846:6020
	Lead	0.00022	NE	0.002	0.00016	JB	SW-846:6020
	Magnesium	11	NE	0.1	0.02		SW-846:6020
	Manganese	0.0014	NE	0.005	0.0003	J	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0065	NE	0.02	0.0042	J	SW-846:6020
	Potassium	2.1	NE	1	0.32		SW-846:6020
	Selenium	0.0013	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	23	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.003	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0051	NE	0.005	0.00058		SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TJA-7 21-Sep-16	Aluminum	0.023	NE	0.1	0.014	JB	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00077	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.23	2	0.005	0.00023	B	SW-846:6020
	Beryllium	0.0003	0.004	0.0005	0.00027	J	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	65	NE	1	0.061	B	SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00092	NE	0.005	0.00007	J	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.0053	NE	0.1	0.0053	U	SW-846:6020
	Lead	0.00059	NE	0.002	0.00016	JB	SW-846:6020
	Magnesium	12	NE	0.1	0.02	B	SW-846:6020
	Manganese	0.0003	NE	0.005	0.0003	U	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	1.8	NE	1	0.32		SW-846:6020
	Selenium	0.0037	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	19	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.0018	0.03	0.0001	0.000027	B	SW-846:6020	
Vanadium	0.0044	NE	0.005	0.00058	J	SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-1 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Total Target Analyte List Metals plus Uranium**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
WYO-3 17-Aug-16	Aluminum	0.02	NE	0.1	0.014	J	SW-846:6020
	Antimony	0.000084	0.006	0.001	0.000084	U	SW-846:6020
	Arsenic	0.00074	0.01	0.002	0.00018	J	SW-846:6020
	Barium	0.051	2	0.005	0.00023		SW-846:6020
	Beryllium	0.00027	0.004	0.0005	0.00027	U	SW-846:6020
	Cadmium	0.000099	0.005	0.002	0.000099	U	SW-846:6020
	Calcium	63	NE	1	0.061		SW-846:6020
	Chromium	0.0011	0.10	0.01	0.0011	U	SW-846:6020
	Cobalt	0.00007	NE	0.005	0.00007	U	SW-846:6020
	Copper	0.0011	NE	0.02	0.0011	U	SW-846:6020
	Iron	0.024	NE	0.1	0.0053	JB	SW-846:6020
	Lead	0.00017	NE	0.002	0.00016	JB	SW-846:6020
	Magnesium	12	NE	0.1	0.02		SW-846:6020
	Manganese	0.00035	NE	0.005	0.0003	J	SW-846:6020
	Mercury	0.00006	0.002	0.0001	0.00006	U	SW-846:7470A
	Nickel	0.0042	NE	0.02	0.0042	U	SW-846:6020
	Potassium	2.2	NE	1	0.32		SW-846:6020
	Selenium	0.0019	0.05	0.01	0.00066	J	SW-846:6020
	Silver	0.000039	NE	0.0005	0.000039	U	SW-846:6020
	Sodium	26	NE	1	0.19		SW-846:6020
	Thallium	0.000014	0.002	0.0001	0.000014	U	SW-846:6020
Uranium	0.003	0.03	0.0001	0.000027		SW-846:6020	
Vanadium	0.0056	NE	0.005	0.00058		SW-846:6020	
Zinc	0.0091	NE	0.1	0.0091	U	SW-846:6020	

B = Compound was found in the blank and sample.

J = the reported value was obtained from a reading that was less than the Laboratory Detection Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

U = the analyte was analyzed for but not detected

**Table-2 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Alkalinity, Anions and Nitrate-Nitrite as Nitrogen**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
PGS-2 19-Aug-16	Alkalinity-CO3	20	NE	20	20	U	EPA:310.1
	Alkalinity-CO3+HCO3	190	NE	20	20		EPA:310.1
	Alkalinity-HCO3	190	NE	20	20		EPA:310.1
	Bromide	0.06	NE	0.2	0.06	U	EPA:300.0
	Chloride	16	NE	0.2	0.06		EPA:300.0
	Fluoride	0.11	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	1.4	10	0.01	0.003		EPA:353.2
	Sulfate	87	NE	1	0.3		EPA:300.0
TA1-W-01 22-Aug-16	Alkalinity-CO3	20	NE	20	20	UH	EPA:310.1
	Alkalinity-CO3+HCO3	160	NE	20	20	H	EPA:310.1
	Alkalinity-HCO3	160	NE	20	20	H	EPA:310.1
	Bromide	0.06	NE	0.2	0.06	U	EPA:300.0
	Chloride	16	NE	0.2	0.06		EPA:300.0
	Fluoride	0.4	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	2.3	10	0.1	0.03		EPA:353.2
	Sulfate	81	NE	1	0.3		EPA:300.0
TA1-W-03 26-Aug-16	Nitrate-Nitrite as Nitrogen	5.9	10	0.5	0.15		EPA:353.2
TA1-W-04 16-Aug-16	Alkalinity-CO3	20	NE	20	20	UH	EPA:310.1
	Alkalinity-CO3+HCO3	180	NE	20	20	H	EPA:310.1
	Alkalinity-HCO3	180	NE	20	20	H	EPA:310.1
	Bromide	0.06	NE	0.2	0.06	U	EPA:300.0
	Chloride	15	NE	0.2	0.06		EPA:300.0
	Fluoride	0.34	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	1.7	10	0.1	0.03		EPA:353.2
	Sulfate	71	NE	1	0.3		EPA:300.0
TA1-W-05 29-Aug-16	Alkalinity-CO3	20	NE	20	20	U	EPA:310.1
	Alkalinity-CO3+HCO3	210	NE	20	20		EPA:310.1
	Alkalinity-HCO3	210	NE	20	20		EPA:310.1
	Bromide	0.06	NE	0.2	0.06	U	EPA:300.0
	Chloride	12	NE	0.2	0.06		EPA:300.0
	Fluoride	0.25	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	1.1	10	0.1	0.03		EPA:353.2
	Sulfate	97	NE	5	1.5		EPA:300.0

H = Analytical holding time was exceeded.

U = the analyte was analyzed for but not detected

**Table-2 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Alkalinity, Anions and Nitrate-Nitrite as Nitrogen**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA1-W-06 31-Aug-16	Alkalinity-CO3	20	NE	20	20	U	EPA:310.1
	Alkalinity-CO3+HCO3	95	NE	20	20		EPA:310.1
	Alkalinity-HCO3	95	NE	20	20		EPA:310.1
	Bromide	1.1	NE	0.2	0.06		EPA:300.0
	Chloride	100	NE	2	0.6		EPA:300.0
	Fluoride	0.32	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	2.9	10	0.1	0.03		EPA:353.2
	Sulfate	190	NE	10	3		EPA:300.0
TA1-W-06 31-Aug-16 DUP	Alkalinity-CO3	20	NE	20	20	U	EPA:310.1
	Alkalinity-CO3+HCO3	86	NE	20	20		EPA:310.1
	Alkalinity-HCO3	86	NE	20	20		EPA:310.1
	Bromide	1.1	NE	0.2	0.06		EPA:300.0
	Chloride	100	NE	2	0.6		EPA:300.0
	Fluoride	0.29	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	2.8	10	0.1	0.03		EPA:353.2
	Sulfate	190	NE	10	3		EPA:300.0
TA1-W-08 24-Aug-16	Alkalinity-CO3	20	NE	20	20	UH	EPA:310.1
	Alkalinity-CO3+HCO3	81	NE	20	20	H	EPA:310.1
	Alkalinity-HCO3	81	NE	20	20	H	EPA:310.1
	Bromide	2.5	NE	0.2	0.06		EPA:300.0
	Chloride	220	NE	5	1.5		EPA:300.0
	Fluoride	0.23	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	6.5	10	0.5	0.15		EPA:353.2
	Sulfate	740	NE	10	3		EPA:300.0
TA2-NW1-595 23-Aug-16	Alkalinity-CO3	20	NE	20	20	UH	EPA:310.1
	Alkalinity-CO3+HCO3	130	NE	20	20	H	EPA:310.1
	Alkalinity-HCO3	130	NE	20	20	H	EPA:310.1
	Bromide	1.1	NE	0.2	0.06		EPA:300.0
	Chloride	93	NE	2	0.6		EPA:300.0
	Fluoride	0.3	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	3.3	10	0.1	0.03		EPA:353.2
	Sulfate	110	NE	10	3		EPA:300.0

H = Analytical holding time was exceeded.

U = the analyte was analyzed for but not detected

**Table-2 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Alkalinity, Anions and Nitrate-Nitrite as Nitrogen**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA2-W-01 12-Sep-16	Alkalinity-CO3	5	NE	5	5	UH	EPA:310.1
	Alkalinity-CO3+HCO3	97	NE	5	5	H	EPA:310.1
	Alkalinity-HCO3	97	NE	5	5	H	EPA:310.1
	Bromide	1.4	NE	0.2	0.06		EPA:300.0
	Chloride	9.4	NE	0.2	0.06		EPA:300.0
	Fluoride	0.32	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	4.3	10	0.5	0.15		EPA:353.2
	Sulfate	58	NE	1	0.3		EPA:300.0
TA2-W-19 15-Sep-16	Alkalinity-CO3	5	NE	5	5	U	EPA:310.1
	Alkalinity-CO3+HCO3	110	NE	5	5		EPA:310.1
	Alkalinity-HCO3	110	NE	5	5		EPA:310.1
	Bromide	0.78	NE	0.2	0.06		EPA:300.0
	Chloride	59	NE	2	0.6		EPA:300.0
	Fluoride	0.34	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	11	10	0.5	0.15		EPA:353.2
	Sulfate	59	NE	1	0.3		EPA:300.0
TA2-W-26 14-Sep-16	Alkalinity-CO3	5	NE	5	5	U	EPA:310.1
	Alkalinity-CO3+HCO3	78	NE	5	5		EPA:310.1
	Alkalinity-HCO3	78	NE	5	5		EPA:310.1
	Bromide	2.5	NE	0.2	0.06		EPA:300.0
	Chloride	210	NE	2.5	0.75		EPA:300.0
	Fluoride	0.27	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	5.7	10	0.5	0.15		EPA:353.2
	Sulfate	410	NE	12	3.8		EPA:300.0
TA2-W-27 8-Sep-16	Alkalinity-CO3	20	NE	20	20	U	EPA:310.1
	Alkalinity-CO3+HCO3	99	NE	20	20		EPA:310.1
	Alkalinity-HCO3	99	NE	20	20		EPA:310.1
	Bromide	1.3	NE	0.2	0.06		EPA:300.0
	Chloride	110	NE	2	0.6		EPA:300.0
	Fluoride	0.27	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	4	10	0.5	0.15		EPA:353.2
	Sulfate	140	NE	10	3		EPA:300.0

H = Analytical holding time was exceeded.

U = the analyte was analyzed for but not detected

**Table-2 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Alkalinity, Anions and Nitrate-Nitrite as Nitrogen**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA2-W-28 20-Sep-16	Alkalinity-CO3	10	NE	10	10	U	EPA:310.1
	Alkalinity-CO3+HCO3	120	NE	10	10		EPA:310.1
	Alkalinity-HCO3	120	NE	10	10		EPA:310.1
	Bromide	0.52	NE	0.2	0.06		EPA:300.0
	Chloride	34	NE	2	0.6		EPA:300.0
	Fluoride	0.47	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	20	10	0.5	0.15		EPA:353.2
	Sulfate	14	NE	1	0.3		EPA:300.0
TJA-2 19-Sep-16	Alkalinity-CO3	10	NE	10	10	U	EPA:310.1
	Alkalinity-CO3+HCO3	110	NE	10	10		EPA:310.1
	Alkalinity-HCO3	110	NE	10	10		EPA:310.1
	Bromide	0.83	NE	0.2	0.06		EPA:300.0
	Chloride	68	NE	2	0.6		EPA:300.0
	Fluoride	0.35	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	12	10	0.5	0.15		EPA:353.2
	Sulfate	53	NE	1	0.3		EPA:300.0
TJA-3 13-Sep-16	Alkalinity-CO3	5	NE	5	5	U	EPA:310.1
	Alkalinity-CO3+HCO3	170	NE	5	5		EPA:310.1
	Alkalinity-HCO3	170	NE	5	5		EPA:310.1
	Bromide	0.06	NE	0.2	0.06	U	EPA:300.0
	Chloride	14	NE	0.2	0.06		EPA:300.0
	Fluoride	0.32	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	2.7	10	0.1	0.03		EPA:353.2
	Sulfate	80	NE	1	0.3		EPA:300.0
TJA-4 22-Sep-16	Alkalinity-CO3	20	NE	20	20	U	EPA:310.1
	Alkalinity-CO3+HCO3	140	NE	20	20		EPA:310.1
	Alkalinity-HCO3	140	NE	20	20		EPA:310.1
	Bromide	0.33	NE	0.2	0.06		EPA:300.0
	Chloride	23	NE	1	0.3		EPA:300.0
	Fluoride	0.4	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	28	10	0.5	0.15		EPA:353.2
	Sulfate	16	NE	1	0.3		EPA:300.0

H = Analytical holding time was exceeded.

U = the analyte was analyzed for but not detected

**Table-2 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Alkalinity, Anions and Nitrate-Nitrite as Nitrogen**

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TJA-6 30-Aug-16	Alkalinity-CO3	20	NE	20	20	U	EPA:310.1
	Alkalinity-CO3+HCO3	160	NE	20	20		EPA:310.1
	Alkalinity-HCO3	160	NE	20	20		EPA:310.1
	Bromide	0.06	NE	0.2	0.06	U	EPA:300.0
	Chloride	15	NE	0.2	0.06		EPA:300.0
	Fluoride	0.35	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	2.1	10	0.1	0.03		EPA:353.2
	Sulfate	66	NE	1	0.3		EPA:300.0
TJA-7 21-Sep-16	Alkalinity-CO3	20	NE	20	20	U	EPA:310.1
	Alkalinity-CO3+HCO3	140	NE	20	20		EPA:310.1
	Alkalinity-HCO3	140	NE	20	20		EPA:310.1
	Bromide	0.43	NE	0.2	0.06		EPA:300.0
	Chloride	26	NE	1	0.3		EPA:300.0
	Fluoride	0.39	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	22	10	0.5	0.15		EPA:353.2
	Sulfate	20	NE	1	0.3		EPA:300.0
WYO-3 17-Aug-16	Alkalinity-CO3	20	NE	20	20	UH	EPA:310.1
	Alkalinity-CO3+HCO3	150	NE	20	20	H	EPA:310.1
	Alkalinity-HCO3	150	NE	20	20	H	EPA:310.1
	Bromide	0.06	NE	0.2	0.06	U	EPA:300.0
	Chloride	18	NE	0.2	0.06		EPA:300.0
	Fluoride	0.5	4	0.1	0.03		EPA:300.0
	Nitrate-Nitrite as Nitrogen	1.9	10	0.1	0.03		EPA:353.2
	Sulfate	95	NE	1	0.3		EPA:300.0

H = Analytical holding time was exceeded.

U = the analyte was analyzed for but not detected

Table-3 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Detected Volatile Organic Compounds

Monitoring Well/ Sample Date	Analyte	Result (mg/L)	EPA MCL (mg/L)	Laboratory Detection Limit (mg/L)	MDL (mg/L)	Laboratory Qualifier	Analytical Method
TA1-W-06 31-Aug-16	Chloroform	0.31	NE	1	0.3	J	SW-846:8260B_25
	Dichloroethene[1,1-]	1	7	1	0.3		SW-846:8260B_25
	Trichloroethene	0.43	5	1	0.3	J	SW-846:8260B_25
TA1-W-06 31-Aug-16 DUP	Dichloroethene[1,1-]	0.99	7	1	0.3	J	SW-846:8260B_25
	Trichloroethene	0.43	5	1	0.3	J	SW-846:8260B_25
TA2-W-01 12-Sep-16	Tetrachloroethene	0.43	5	1	0.2	J	SW-846:8260B_25
	Trichloroethene	1.5	5	1	0.3		SW-846:8260B_25
TA2-W-19 15-Sep-16	Dichloroethane[1,1-]	0.4	NE	1	0.3	J	SW-846:8260B_25
	Dichloroethene[cis-1,2-]	0.45	70	1	0.3	J	SW-846:8260B_25
	Trichloroethene	3.1	5	1	0.3		SW-846:8260B_25
TA2-W-26 14-Sep-16	Chloroform	0.32	NE	1	0.3	J	SW-846:8260B_25
	Dichloroethene[cis-1,2-]	0.46	70	1	0.3	J	SW-846:8260B_25
	Tetrachloroethene	0.87	5	1	0.2	J	SW-846:8260B_25
	Trichloroethene	1.1	5	1	0.3		SW-846:8260B_25
TA2-W-27 8-Sep-16	Tetrachloroethene	1.6	5	1	0.2		SW-846:8260B_25
	Trichloroethene	1.4	5	1	0.3		SW-846:8260B_25
TJA-2 19-Sep-16	Dichloroethane[1,1-]	0.48	NE	1	0.3	J	SW-846:8260B_25
	Dichloroethene[cis-1,2-]	0.56	70	1	0.3	J	SW-846:8260B_25
	Trichloroethene	4.7	5	1	0.3		SW-846:8260B_25
TJA-3 13-Sep-16	Trichloroethene	0.3	5	1	0.3	J	SW-846:8260B_25
TJA-7 21-Sep-16	Trichloroethene	2	5	1	0.3		SW-846:8260B_25

J = The reported value was obtained from the reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL).

NE = Not Established

**Table-4 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results:
Method Detection Limits for Volatile Organic Compounds by Method SW-846:8260B_25**

Analyte	MDL (µg/L)
Acetone	3
Benzene	0.3
Bromobenzene	0.3
Bromochloromethane	0.3
Bromodichloromethane	0.3
Bromoform	0.3
Bromomethane	0.3
Butanone[2-]	3
Butylbenzene[n-]	0.3
Butylbenzene[sec-]	0.3
Butylbenzene[tert-]	0.3
Carbon Disulfide	0.3
Carbon Tetrachloride	0.3
Chlorobenzene	0.3
Chlorodibromomethane	0.3
Chloroethane	0.3
Chloroform	0.3
Chlorohexane[1-]	0.3
Chloromethane	0.3
Chlorotoluene[2-]	0.3
Chlorotoluene[4-]	0.3
Dibromo-3-Chloropropane[1,2-]	0.4
Dibromoethane[1,2-]	0.3
Dibromomethane	0.3
Dichlorobenzene[1,2-]	0.3
Dichlorobenzene[1,3-]	0.3
Dichlorobenzene[1,4-]	0.3
Dichlorodifluoromethane	0.3
Dichloroethane[1,1-]	0.3
Dichloroethane[1,2-]	0.3
Dichloroethene[1,1-]	0.3
Dichloroethene[cis-1,2-]	0.3
Dichloroethene[trans-1,2-]	0.3
Dichloropropane[1,2-]	0.3
Dichloropropane[1,3-]	0.3

Analyte	MDL (µg/L)
Dichloropropane[2,2-]	0.3
Dichloropropene[1,1-]	0.3
Dichloropropene[cis-1,3-]	0.3
Dichloropropene[trans-1,3-]	0.3
Ethylbenzene	0.3
Hexachlorobutadiene	0.3
Hexanone[2-]	3
Iodomethane	0.38
Isopropylbenzene	0.3
Isopropyltoluene[4-]	0.3
Methyl tert-Butyl Ether	0.3
Methyl-2-pentanone[4-]	3
Methylene Chloride	0.44
Naphthalene	0.3
Propylbenzene[1-]	0.3
Styrene	0.3
Tetrachloroethane[1,1,1,2-]	0.3
Tetrachloroethane[1,1,2,2-]	0.3
Tetrachloroethene	0.2
Toluene	0.3
Trichloro-1,2,2-trifluoroethane[1,1,2-]	0.3
Trichlorobenzene[1,2,3-]	0.3
Trichlorobenzene[1,2,4-]	0.3
Trichloroethane[1,1,1-]	0.3
Trichloroethane[1,1,2-]	0.3
Trichloroethene	0.3
Trichlorofluoromethane	0.3
Trichloropropane[1,2,3-]	0.3
Trimethylbenzene[1,2,4-]	0.3
Trimethylbenzene[1,3,5-]	0.3
Vinyl acetate	0.3
Vinyl Chloride	0.3
Xylene[1,2-]	0.3
Xylene[1,3-]+Xylene[1,4-]	0.3

Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
PGS-2 19-Aug-16	Actinium-228	-4.8 ± 18	59	U	EPA:901.1
	Americium-241	18 ± 11	34	U	EPA:901.1
	Beryllium-7	-3.8 ± 15	51	U	EPA:901.1
	Bismuth-212	39 ± 26	87	U	EPA:901.1
	Bismuth-214	8.7 ± 9.2	37	U	EPA:901.1
	Cesium-134	3.3 ± 3	9.9	U	EPA:901.1
	Cesium-137	0.077 ± 2	6.8	U	EPA:901.1
	Cobalt-60	0.56 ± 2.7	9.3	U	EPA:901.1
	Gross alpha	2.7 ± 0.42	1		EPA:900
	Gross beta	3.6 ± 0.49	1.2		EPA:900
	Iodine-131	-2.6 ± 4.4	15	U	EPA:901.1
	Lead-212	-2.5 ± 4.7	16	U	EPA:901.1
	Lead-214	-9.6 ± 8.3	28	U	EPA:901.1
	Potassium-40	-13 ± 59	200	U	EPA:901.1
	Protactinium-234m	350 ± 390	1300	U	EPA:901.1
	Sodium-22	0.86 ± 2.5	8.4	U	EPA:901.1
	Thallium-208	5.4 ± 2	6.2	U	EPA:901.1
	Thorium-234	22 ± 45	150	U	EPA:901.1
Tritium	-150 ± 98	330	U	EPA:906.0	
TA1-W-01 22-Aug-16	Actinium-228	16 ± 4.4	16	U	EPA:901.1
	Americium-241	-20 ± 51	170	U	EPA:901.1
	Beryllium-7	-2.9 ± 9.4	32	U	EPA:901.1
	Bismuth-212	24 ± 18	61	U	EPA:901.1
	Bismuth-214	-0.64 ± 7.9	26	U	EPA:901.1
	Cesium-134	-3.3 ± 1.3	4.5	U	EPA:901.1
	Cesium-137	2.4 ± 1.3	4.2	U	EPA:901.1
	Cobalt-60	-2.8 ± 1.4	5	U	EPA:901.1
	Gross alpha	2.8 ± 0.39	0.86		EPA:900
	Gross beta	3 ± 0.42	1.1		EPA:900
	Iodine-131	0.33 ± 2.7	9.1	U	EPA:901.1
	Lead-212	7 ± 2	6.1	U,SI	EPA:901.1
	Lead-214	1 ± 7.1	24	U	EPA:901.1
	Potassium-40	-21 ± 42	140	U	EPA:901.1
	Protactinium-234m	330 ± 220	730	U	EPA:901.1
	Sodium-22	0.84 ± 1.4	4.6	U	EPA:901.1
	Thallium-208	0.66 ± 3.5	12	U	EPA:901.1
	Thorium-234	38 ± 78	260	U	EPA:901.1
Tritium	-100 ± 100	340	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

U = Result is less than the sample specific MDC or less than the associated TPU.

Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)		MDA (pCi/L)	Laboratory Qualifier	Analytical Method
TA1-W-04 16-Aug-16	Actinium-228	26	± 5.5	16		EPA:901.1
	Americium-241	-74	± 33	110	U	EPA:901.1
	Beryllium-7	-15	± 12	40	U	EPA:901.1
	Bismuth-212	26	± 13	43	U	EPA:901.1
	Bismuth-214	9.9	± 5.6	25	U	EPA:901.1
	Cesium-134	-1.6	± 1.4	4.9	U	EPA:901.1
	Cesium-137	1.3	± 1.3	4.3	U	EPA:901.1
	Cobalt-60	-1.9	± 1.4	5	U	EPA:901.1
	Gross alpha	2.9	± 0.39	0.81		EPA:900
	Gross beta	2.9	± 0.41	1.1		EPA:900
	Iodine-131	-3.8	± 4.5	15	U	EPA:901.1
	Lead-212	5	± 4.5	15	U	EPA:901.1
	Lead-214	2	± 6.3	21	U	EPA:901.1
	Potassium-40	-11	± 40	130	U	EPA:901.1
	Protactinium-234m	300	± 220	720	U	EPA:901.1
	Sodium-22	1	± 1.4	4.8	U	EPA:901.1
	Thallium-208	4.6	± 1.5	4.6		EPA:901.1
	Thorium-234	44	± 73	240	U	EPA:901.1
Tritium	21	± 110	360	U	EPA:906.0	
TA1-W-05 29-Aug-16	Actinium-228	26	± 5.9	18		EPA:901.1
	Americium-241	6.4	± 11	37	U	EPA:901.1
	Beryllium-7	-12	± 12	40	U	EPA:901.1
	Bismuth-212	40	± 19	61	U	EPA:901.1
	Bismuth-214	23	± 5.3	20		EPA:901.1
	Cesium-134	2.1	± 9.2	30	U	EPA:901.1
	Cesium-137	0.91	± 1.4	4.8	U	EPA:901.1
	Cobalt-60	0.1	± 1.6	5.4	U	EPA:901.1
	Gross alpha	3.4	± 0.47	0.99		EPA:900
	Gross beta	2.3	± 0.46	1.3		EPA:900
	Iodine-131	2.2	± 3.5	12	U	EPA:901.1
	Lead-212	-2.8	± 3.9	13	U	EPA:901.1
	Lead-214	14	± 5.7	19	U	EPA:901.1
	Potassium-40	-6.2	± 39	130	U	EPA:901.1
	Protactinium-234m	320	± 230	760	U	EPA:901.1
	Sodium-22	-1.8	± 1.6	5.5	U	EPA:901.1
	Thallium-208	5.5	± 1.5	4.5		EPA:901.1
	Thorium-234	-4.6	± 41	140	U	EPA:901.1
Tritium	-240	± 100	350	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

U = Result is less than the sample specific MDC or less than the associated TPU.

Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
TA1-W-06 31-Aug-16	Actinium-228	16 ± 4.6	14		EPA:901.1
	Americium-241	-0.67 ± 1.2	4.1	U	EPA:901.1
	Beryllium-7	-7.1 ± 7.8	27	U	EPA:901.1
	Bismuth-212	36 ± 16	51	U	EPA:901.1
	Bismuth-214	22 ± 4.6	18		EPA:901.1
	Cesium-134	1 ± 1.1	3.5	U	EPA:901.1
	Cesium-137	-0.48 ± 1.1	3.6	U	EPA:901.1
	Cobalt-60	0.34 ± 1.3	4.4	U	EPA:901.1
	Gross alpha	1.9 ± 0.53	1.6		EPA:900
	Gross beta	3.5 ± 0.66	1.9		EPA:900
	Iodine-131	1.1 ± 2	6.8	U	EPA:901.1
	Lead-212	0.86 ± 2.8	9.4	U	EPA:901.1
	Lead-214	24 ± 4	14		EPA:901.1
	Potassium-40	-16 ± 34	110	U	EPA:901.1
	Protactinium-234m	280 ± 200	660	U	EPA:901.1
	Sodium-22	0.64 ± 1.1	3.9	U	EPA:901.1
	Thallium-208	-2.2 ± 2.5	8.5	U	EPA:901.1
	Thorium-234	18 ± 23	75	U	EPA:901.1
Tritium	-250 ± 100	350	U	EPA:906.0	
TA1-W-06 31-Aug-16 DUP	Actinium-228	23 ± 4.9	18		EPA:901.1
	Americium-241	-12 ± 10	34	U	EPA:901.1
	Beryllium-7	-16 ± 12	41	U	EPA:901.1
	Bismuth-212	12 ± 22	72	U	EPA:901.1
	Bismuth-214	24 ± 6.3	24	U	EPA:901.1
	Cesium-134	-3.2 ± 1.5	5.4	U	EPA:901.1
	Cesium-137	0.17 ± 1.5	4.9	U	EPA:901.1
	Cobalt-60	1.9 ± 1.7	5.5	U	EPA:901.1
	Gross alpha	0.53 ± 0.5	1.7	U	EPA:900
	Gross beta	2.3 ± 0.74	2.3	U	EPA:900
	Iodine-131	-2.5 ± 2.7	9.3	U	EPA:901.1
	Lead-212	3.8 ± 3.8	12	U	EPA:901.1
	Lead-214	26 ± 5.5	20		EPA:901.1
	Potassium-40	17 ± 39	130	U	EPA:901.1
	Protactinium-234m	370 ± 230	740	U	EPA:901.1
	Sodium-22	0.21 ± 1.5	5.2	U	EPA:901.1
	Thallium-208	4.3 ± 1.5	4.9	U	EPA:901.1
	Thorium-234	-4.6 ± 43	140	U	EPA:901.1
Tritium	-72 ± 100	350	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

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Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
TA1-W-08 24-Aug-16	Actinium-228	1.8 ± 9.3	31	U	EPA:901.1
	Americium-241	0.55 ± 1.3	4.4	U	EPA:901.1
	Beryllium-7	-8.5 ± 8.4	29	U	EPA:901.1
	Bismuth-212	32 ± 17	56	U	EPA:901.1
	Bismuth-214	27 ± 5.6	17		EPA:901.1
	Cesium-134	0.34 ± 1.2	3.9	U	EPA:901.1
	Cesium-137	-3.2 ± 1.2	4.1	U	EPA:901.1
	Cobalt-60	-3 ± 1.3	4.5	U	EPA:901.1
	Gross alpha	-1.4 ± 4	14	U	EPA:900
	Gross beta	26 ± 7.5	23		EPA:900
	Iodine-131	-1.3 ± 1.7	5.7	U	EPA:901.1
	Lead-212	-0.5 ± 3.4	11	U	EPA:901.1
	Lead-214	22 ± 4.3	15		EPA:901.1
	Potassium-40	34 ± 35	110	U	EPA:901.1
	Protactinium-234m	210 ± 200	680	U	EPA:901.1
	Sodium-22	-0.78 ± 1.2	4.1	U	EPA:901.1
	Thallium-208	-0.57 ± 2.4	8.1	U	EPA:901.1
	Thorium-234	22 ± 18	75	U	EPA:901.1
Tritium	-85 ± 99	330	U	EPA:906.0	
TA2-NW1-595 23-Aug-16	Actinium-228	18 ± 6	19	U	EPA:901.1
	Americium-241	10 ± 8.4	28	U	EPA:901.1
	Beryllium-7	15 ± 11	37	U	EPA:901.1
	Bismuth-212	-5.3 ± 20	67	U	EPA:901.1
	Bismuth-214	23 ± 5.8	23	U	EPA:901.1
	Cesium-134	10 ± 9	30	U	EPA:901.1
	Cesium-137	-0.13 ± 1.5	5.1	U	EPA:901.1
	Cobalt-60	-0.4 ± 1.8	6.1	U	EPA:901.1
	Gross alpha	1.7 ± 0.45	1.3		EPA:900
	Gross beta	2.7 ± 0.62	1.8		EPA:900
	Iodine-131	-3.6 ± 2.6	9	U	EPA:901.1
	Lead-212	-2.8 ± 4.8	16	U	EPA:901.1
	Lead-214	18 ± 5.5	20	U	EPA:901.1
	Potassium-40	5.7 ± 43	140	U	EPA:901.1
	Protactinium-234m	400 ± 210	670	U	EPA:901.1
	Sodium-22	-0.61 ± 1.6	5.4	U	EPA:901.1
	Thallium-208	5.2 ± 1.5	4.8		EPA:901.1
	Thorium-234	2.3 ± 49	160	U	EPA:901.1
Tritium	-170 ± 100	340	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

U = Result is less than the sample specific MDC or less than the associated TPU.

Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
TA2-W-01 12-Sep-16	Actinium-228	21 ± 5.5	17		EPA:901.1
	Americium-241	-22 ± 32	110	U	EPA:901.1
	Beryllium-7	4.8 ± 11	36	U	EPA:901.1
	Bismuth-212	23 ± 20	65	U	EPA:901.1
	Bismuth-214	41 ± 5.8	21		EPA:901.1
	Cesium-134	-3.5 ± 1.4	5	U	EPA:901.1
	Cesium-137	-1.6 ± 1.3	4.4	U	EPA:901.1
	Cobalt-60	-2.9 ± 1.5	5.2	U	EPA:901.1
	Gross alpha	0.78 ± 0.6	2	U	EPA:900
	Gross beta	2.4 ± 0.75	2.4		EPA:900
	Iodine-131	0.44 ± 2.7	9.1	U	EPA:901.1
	Lead-212	-0.21 ± 4	13	U	EPA:901.1
	Lead-214	34 ± 5.9	23		EPA:901.1
	Potassium-40	-7.2 ± 40	130	U	EPA:901.1
	Protactinium-234m	410 ± 230	740	U	EPA:901.1
	Sodium-22	-1.3 ± 1.4	5	U	EPA:901.1
	Thallium-208	2.6 ± 2.4	8	U	EPA:901.1
	Thorium-234	-10 ± 72	240	U	EPA:901.1
Tritium	-37 ± 93	310	U	EPA:906.0	
TA2-W-19 15-Sep-16	Actinium-228	23 ± 4.4	16	UI	EPA:901.1
	Americium-241	-32 ± 53	180	U	EPA:901.1
	Beryllium-7	-8.5 ± 9.5	33	U	EPA:901.1
	Bismuth-212	29 ± 19	61	U	EPA:901.1
	Bismuth-214	52 ± 16	56	U	EPA:901.1
	Cesium-134	0.52 ± 1.4	4.5	U	EPA:901.1
	Cesium-137	-1 ± 1.4	4.9	U	EPA:901.1
	Cobalt-60	0.57 ± 1.5	5.2	U	EPA:901.1
	Gross alpha	1.2 ± 0.34	1		EPA:900
	Gross beta	5.1 ± 0.6	1.3		EPA:900
	Iodine-131	0.66 ± 2.2	7.2	U	EPA:901.1
	Lead-212	3.4 ± 4.9	16	U	EPA:901.1
	Lead-214	64 ± 6.4	19		EPA:901.1
	Potassium-40	-5.2 ± 39	130	U	EPA:901.1
	Protactinium-234m	250 ± 220	740	U	EPA:901.1
	Sodium-22	0.69 ± 1.3	4.5	U	EPA:901.1
	Thallium-208	0.39 ± 2.9	9.8	U	EPA:901.1
	Thorium-234	-53 ± 75	250	U	EPA:901.1
Tritium	-180 ± 93	320	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

U = Result is less than the sample specific MDC or less than the associated TPU.

Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
TA2-W-26 14-Sep-16	Actinium-228	16 ± 10	33	U	EPA:901.1
	Americium-241	26 ± 11	35	U	EPA:901.1
	Beryllium-7	-1 ± 15	51	U	EPA:901.1
	Bismuth-212	90 ± 29	91	U	EPA:901.1
	Bismuth-214	61 ± 8.1	27		EPA:901.1
	Cesium-134	12 ± 13	44	U	EPA:901.1
	Cesium-137	-1.3 ± 2.1	7.1	U	EPA:901.1
	Cobalt-60	2.6 ± 2.7	8.9	U	EPA:901.1
	Gross alpha	-0.7 ± 0.77	2.7	U	EPA:900
	Gross beta	1.1 ± 1	3.5	U	EPA:900
	Iodine-131	0.8 ± 3	10	U	EPA:901.1
	Lead-212	7 ± 5	16	U	EPA:901.1
	Lead-214	55 ± 6.8	22		EPA:901.1
	Potassium-40	17 ± 63	210	U	EPA:901.1
	Protactinium-234m	890 ± 410	1300	U	EPA:901.1
	Sodium-22	0.4 ± 2.6	8.9	U	EPA:901.1
	Thallium-208	5.2 ± 2	6.6	U	EPA:901.1
	Thorium-234	-28 ± 44	150	U	EPA:901.1
Tritium	-24 ± 98	330	U	EPA:906.0	
TA2-W-27 8-Sep-16	Actinium-228	18 ± 6.3	20	U	EPA:901.1
	Americium-241	-16 ± 15	52	U	EPA:901.1
	Beryllium-7	3.8 ± 13	43	U	EPA:901.1
	Bismuth-212	-19 ± 23	80	U	EPA:901.1
	Bismuth-214	15 ± 6.5	21	U	EPA:901.1
	Cesium-134	1.1 ± 1.5	5	U	EPA:901.1
	Cesium-137	-2 ± 1.6	5.4	U	EPA:901.1
	Cobalt-60	-2.3 ± 1.7	6	U	EPA:901.1
	Gross alpha	0.95 ± 0.43	1.4	U	EPA:900
	Gross beta	3 ± 0.67	2		EPA:900
	Iodine-131	-10 ± 4.4	15	U	EPA:901.1
	Lead-212	0.14 ± 4.2	14	U	EPA:901.1
	Lead-214	15 ± 3.3	12		EPA:901.1
	Potassium-40	-39 ± 53	180	U	EPA:901.1
	Protactinium-234m	210 ± 260	880	U	EPA:901.1
	Sodium-22	-2.5 ± 1.6	5.8	U	EPA:901.1
	Thallium-208	2.3 ± 1.6	5.3	U	EPA:901.1
	Thorium-234	68 ± 21	67		EPA:901.1
Tritium	290 ± 100	330	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

U = Result is less than the sample specific MDC or less than the associated TPU.

Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
TA2-W-28 20-Sep-16	Actinium-228	13 ± 5.6	18	U	EPA:901.1
	Americium-241	-1.7 ± 8.5	29	U	EPA:901.1
	Beryllium-7	1.1 ± 10	35	U	EPA:901.1
	Bismuth-212	6.2 ± 20	67	U	EPA:901.1
	Bismuth-214	36 ± 5.9	22		EPA:901.1
	Cesium-134	-2.8 ± 1.4	4.7	U	EPA:901.1
	Cesium-137	-0.38 ± 1.4	4.7	U	EPA:901.1
	Cobalt-60	0.54 ± 1.6	5.5	U	EPA:901.1
	Gross alpha	2.2 ± 0.31	0.68		EPA:900
	Gross beta	1.8 ± 0.37	1.1		EPA:900
	Iodine-131	-2.3 ± 1.8	6.3	U	EPA:901.1
	Lead-212	13 ± 2.1	6.1		EPA:901.1
	Lead-214	33 ± 5.4	18		EPA:901.1
	Potassium-40	200 ± 23	55		EPA:901.1
	Protactinium-234m	640 ± 260	840	U	EPA:901.1
	Sodium-22	-1.5 ± 1.6	5.6	U	EPA:901.1
	Thallium-208	4.8 ± 1.4	4.3		EPA:901.1
	Thorium-234	180 ± 20	52		EPA:901.1
Tritium	280 ± 100	330	U	EPA:906.0	
TJA-2 19-Sep-16	Actinium-228	16 ± 5.8	18	U	EPA:901.1
	Americium-241	9.5 ± 8.6	29	U	EPA:901.1
	Beryllium-7	-17 ± 12	41	U	EPA:901.1
	Bismuth-212	47 ± 20	64	U	EPA:901.1
	Bismuth-214	28 ± 6.1	23		EPA:901.1
	Cesium-134	3 ± 10	33	U	EPA:901.1
	Cesium-137	-2.4 ± 1.5	5.2	U	EPA:901.1
	Cobalt-60	-0.84 ± 1.7	6	U	EPA:901.1
	Gross alpha	0.69 ± 0.3	0.96	U	EPA:900
	Gross beta	1.9 ± 0.35	1		EPA:900
	Iodine-131	1.2 ± 2.4	8	U	EPA:901.1
	Lead-212	1.2 ± 4.5	15	U	EPA:901.1
	Lead-214	25 ± 5	20		EPA:901.1
	Potassium-40	3.2 ± 43	140	U	EPA:901.1
	Protactinium-234m	-100 ± 250	870	U	EPA:901.1
	Sodium-22	2.7 ± 1.6	5.3	U	EPA:901.1
	Thallium-208	0.67 ± 3.2	11	U	EPA:901.1
	Thorium-234	-31 ± 43	140	U	EPA:901.1
Tritium	-25 ± 93	310	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

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Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
TJA-3 13-Sep-16	Actinium-228	15 ± 6	19	U	EPA:901.1
	Americium-241	-4.3 ± 11	37	U	EPA:901.1
	Beryllium-7	5.3 ± 13	42	U	EPA:901.1
	Bismuth-212	5.8 ± 23	78	U	EPA:901.1
	Bismuth-214	29 ± 6.2	24		EPA:901.1
	Cesium-134	-2.9 ± 1.6	5.7	U	EPA:901.1
	Cesium-137	-0.55 ± 1.6	5.3	U	EPA:901.1
	Cobalt-60	-2.3 ± 1.8	6.4	U	EPA:901.1
	Gross alpha	1.6 ± 0.43	1.3		EPA:900
	Gross beta	1.1 ± 0.48	1.6	U	EPA:900
	Iodine-131	-2 ± 2.7	9.2	U	EPA:901.1
	Lead-212	5.4 ± 4.2	14	U	EPA:901.1
	Lead-214	46 ± 5	16		EPA:901.1
	Potassium-40	2.9 ± 43	140	U	EPA:901.1
	Protactinium-234m	340 ± 260	850	U	EPA:901.1
	Sodium-22	-0.63 ± 1.8	6.2	U	EPA:901.1
	Thallium-208	1.1 ± 3.4	11	U	EPA:901.1
	Thorium-234	6.6 ± 49	160	U	EPA:901.1
Tritium	-19 ± 99	330	U	EPA:906.0	
TJA-4 22-Sep-16	Actinium-228	15 ± 3.8	15		EPA:901.1
	Americium-241	0.46 ± 1.3	4.2	U	EPA:901.1
	Beryllium-7	2.9 ± 8.9	30	U	EPA:901.1
	Bismuth-212	33 ± 17	54	U	EPA:901.1
	Bismuth-214	-1.2 ± 5.8	19	U	EPA:901.1
	Cesium-134	0.38 ± 1.2	3.9	U	EPA:901.1
	Cesium-137	0.37 ± 1.1	3.8	U	EPA:901.1
	Cobalt-60	-0.86 ± 1.3	4.4	U	EPA:901.1
	Gross alpha	2.5 ± 0.57	1.6		EPA:900
	Gross beta	2 ± 0.63	2		EPA:900
	Iodine-131	4.1 ± 3.5	12	U	EPA:901.1
	Lead-212	-0.51 ± 3.5	12	U	EPA:901.1
	Lead-214	-7.4 ± 4.9	16	U	EPA:901.1
	Potassium-40	-68 ± 35	120	U	EPA:901.1
	Protactinium-234m	150 ± 200	680	U	EPA:901.1
	Sodium-22	-1.9 ± 1.2	4.1	U	EPA:901.1
	Thallium-208	0.21 ± 2	6.8	U	EPA:901.1
	Thorium-234	3.9 ± 21	70	U	EPA:901.1
Tritium	-33 ± 96	320	U	EPA:906.0	

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Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
TJA-6 30-Aug-16	Actinium-228	14 ± 5.4	17	U	EPA:901.1
	Americium-241	9.1 ± 7.9	26	U	EPA:901.1
	Beryllium-7	3.7 ± 10	34	U	EPA:901.1
	Bismuth-212	25 ± 19	63	U	EPA:901.1
	Bismuth-214	21 ± 5.1	21	U	EPA:901.1
	Cesium-134	-1.2 ± 1.3	4.4	U	EPA:901.1
	Cesium-137	-0.051 ± 1.3	4.4	U	EPA:901.1
	Cobalt-60	-2.6 ± 1.6	5.6	U	EPA:901.1
	Gross alpha	2.5 ± 0.38	0.87		EPA:900
	Gross beta	2.2 ± 0.39	1.1		EPA:900
	Iodine-131	-2.1 ± 2.6	8.8	U	EPA:901.1
	Lead-212	1.1 ± 3.6	12	U	EPA:901.1
	Lead-214	18 ± 4.5	17		EPA:901.1
	Potassium-40	10 ± 36	120	U	EPA:901.1
	Protactinium-234m	310 ± 240	780	U	EPA:901.1
	Sodium-22	-1.2 ± 1.5	5.1	U	EPA:901.1
	Thallium-208	0.52 ± 2.7	9.1	U	EPA:901.1
	Thorium-234	19 ± 34	110	U	EPA:901.1
Tritium	-150 ± 96	320	U	EPA:906.0	
TJA-7 21-Sep-16	Actinium-228	22 ± 4.4	17		EPA:901.1
	Americium-241	-10 ± 8.3	28	U	EPA:901.1
	Beryllium-7	6 ± 12	40	U	EPA:901.1
	Bismuth-212	70 ± 21	66		EPA:901.1
	Bismuth-214	-1.9 ± 6.5	22	U	EPA:901.1
	Cesium-134	-2.7 ± 1.4	4.8	U	EPA:901.1
	Cesium-137	1.2 ± 1.4	4.6	U	EPA:901.1
	Cobalt-60	-1.1 ± 1.7	5.8	U	EPA:901.1
	Gross alpha	2.7 ± 0.49	1.2		EPA:900
	Gross beta	3 ± 0.49	1.4		EPA:900
	Iodine-131	6.2 ± 4.7	16	U	EPA:901.1
	Lead-212	-3.2 ± 4.1	14	U	EPA:901.1
	Lead-214	-0.24 ± 5.1	17	U	EPA:901.1
	Potassium-40	-95 ± 43	140	U	EPA:901.1
	Protactinium-234m	300 ± 240	790	U	EPA:901.1
	Sodium-22	-0.82 ± 1.7	5.8	U	EPA:901.1
	Thallium-208	-1.6 ± 3.2	11	U	EPA:901.1
	Thorium-234	-4.9 ± 42	140	U	EPA:901.1
Tritium	100 ± 98	320	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

U = Result is less than the sample specific MDC or less than the associated TPU.

Table-5 NMED DOE Oversight Bureau FFY 2016 Q-4 Tijeras Arroyo Groundwater Quality Results: Gross Alpha, Gross Beta, Gamma Spectroscopy, and Tritium

Monitoring Well/ Sample Date	Analyte	Activity (pCi/L)	MDA (pCi/L)	Laboratory Qualifier	Analytical Method
WYO-3 17-Aug-16	Actinium-228	23 ± 6.1	19		EPA:901.1
	Americium-241	-4.3 ± 10	34	U	EPA:901.1
	Beryllium-7	-9.2 ± 14	47	U	EPA:901.1
	Bismuth-212	29 ± 23	75	U	EPA:901.1
	Bismuth-214	1.2 ± 8	27	U	EPA:901.1
	Cesium-134	-0.8 ± 2.2	7.5	U	EPA:901.1
	Cesium-137	-1 ± 1.5	5.2	U	EPA:901.1
	Cobalt-60	-1.1 ± 1.7	5.9	U	EPA:901.1
	Gross alpha	3.5 ± 0.44	0.89		EPA:900
	Gross beta	2.3 ± 0.39	1.1		EPA:900
	Iodine-131	-2 ± 4.2	14	U	EPA:901.1
	Lead-212	7.5 ± 4.9	16	U	EPA:901.1
	Lead-214	-2.9 ± 5.8	20	U	EPA:901.1
	Potassium-40	10 ± 43	140	U	EPA:901.1
	Protactinium-234m	500 ± 260	840	U	EPA:901.1
	Sodium-22	2.6 ± 1.5	5	U	EPA:901.1
	Thallium-208	-2.8 ± 3.2	11	U	EPA:901.1
	Thorium-234	-26 ± 48	160	U	EPA:901.1
Tritium	-22 ± 98	330	U	EPA:906.0	

SI = Nuclide identification and/or quantitation is tentative

U = Result is less than the sample specific MDC or less than the associated TPU.