wood.

Appendix B: Zone 3 Monitoring Data (Table B.1) with Introductory Text; Figure B-1 (Zone 3 2018 Monitoring Well Locations); Figure B-2 (Zone 3 Proposed Well Locations); and 2019 Laboratory Groundwater Analytical Reports

APPENDIX B
ZONE 3 MONITORING DATA

Earlier remedial action in Zone 3 has consisted of the operation of the Northeast Pump-Back Wells (Wells 600, 608, 610, 613, and 672), and installation and operation of twelve Stage I Extraction Wells (Wells 701-703 and 705-713) in mid-1989 and seven Stage II Extraction Wells (Wells 714-720) in mid-1991. Remedial action has been monitored since the third quarter of 1989 by measurement of groundwater levels and groundwater sampling and analyses at nineteen Zone 3 monitoring wells (Wells 106 D, 9D, 517, 518, 504 B, 502 B, 501 B, 420, 411, EPA 18, EPA 17, EPA 15, EPA 14, EPA 13, EPA 12, EPA 11, EPA 9, EPA 3, and EPA 1). Well 126 was added to the monitoring program in the third quarter of 1990 to measure water levels in accordance with the requirements of the Nuclear Regulatory Commission (NRC) and the U.S. Environmental Protection Agency (EPA).

At the end of the 1993 operating year, the extraction and performance monitoring systems for Zone 3 were modified with the approval of the NRC and EPA. Modifications included discontinuing pumping at ten low-producing extraction wells (Wells 600, 608, 610, 672, 702, 703, 705, 710, 712, and 713) and at two extraction wells that were intercepting background water (Wells 714 and 715). Water levels were measured at seven of these former extraction wells (Wells 608, 702, 703, 710, 712, 714, and 715) during 2000 to augment the existing monitoring system.

In July 1999, ten additional low-producing extraction wells (Wells 613, 701, 706, 707, 708, 709, 711, 713, 719, and 720) were decommissioned with approval of the NRC and EPA. Several of these wells were converted to use as water level and water quality monitoring wells (Wells 613 and 711) or as water level monitoring wells (713, 701, 706, 707 and 719).

Beginning with the second quarter of 2000, the revised monitoring program was implemented. This included using a revised set of monitoring wells and low-flow sampling procedures. Some changes to the well set used in the revised program were implemented in the second quarter of 2001, including installation a new well designated NBL-01. The wells included in the monitoring program for Zone 3 are listed in Table 9 of this 2019 Annual Review Report. See enclosed Figure B-1 for the current layout of the wells. During June 2002, the following wells were installed to track the northward migration of the Zone 3 seepage-impact front: PB-01, PB-02, PB-03, and PB-04. Well PB-01 no longer exists. These wells are not part of the formal performance monitoring program. During July 2004, two new piezometers were installed in the updip, southeastern part of the Zone 3 hydrostratigraphic unit: Z3 M-1 and Z3 M-2. These piezometers were dry during the first two quarterly measurement events. Subsequent monitoring has shown water-level variations to approximately 1 ft in Z3-M2 and 0.4 ft in Z3-M1. These piezometers are not part of the formal performance monitoring program.

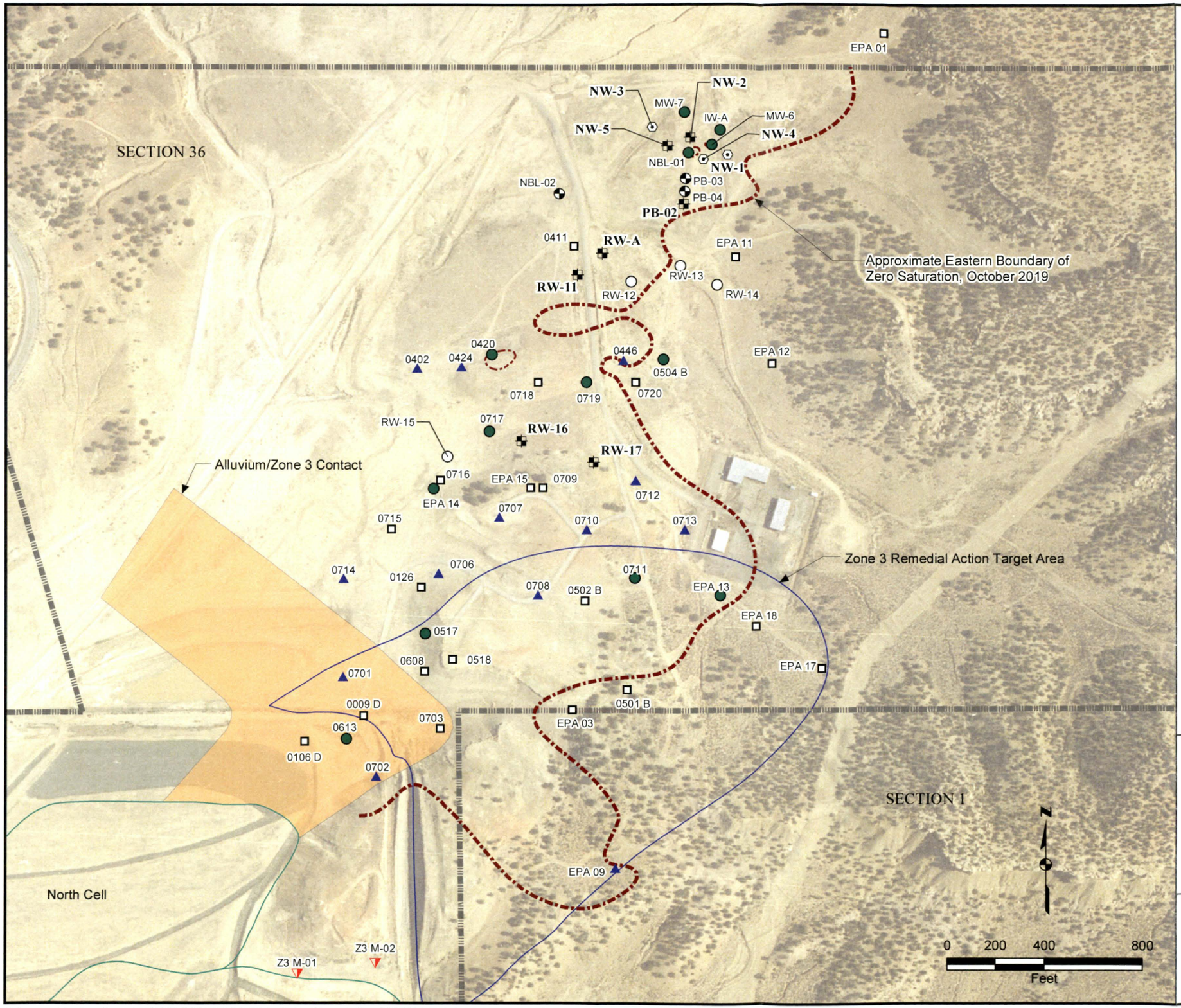
During 2004, new extraction wells were installed and hydrofractured in order to enhance the permeability of the Zone 3 sandstones. Since then, some of these extraction wells have been shut off due to very low yields, fouling, or becoming dry. Starting in April 2005 and continuing to present in 2010, the extraction wells pumped groundwater from Zone 3 that is piped to the evaporation pond. These extraction wells are shown in Figure B-1 of this appendix (RW-series wells); older well PB-02 was also utilized for extraction pumping, but as of July 2013 pumping has been discontinued due to performance degradation. Figure B-1 also shows the locations of two new wells installed during 2007: extraction well RW-A (September 2007) and tracking monitoring well NBL 2 (August 2007; not part of the formal monitoring program).

During September 2008 five new extraction wells were installed within Section 36 to the north of Well NBL-01. These wells (designated NW-1 through NW-5) underwent test pumping during February 2009, and from February to November 2009 NW-1, NW-2, and NW-3 were pumped. In November 2009 this pumping regime was re-optimized to comprise pumping at NW-1, NW-2, and NW-4. Due to critical loss of saturated thickness and yield, NW-1 was shut off during May 2012 and, to help compensate, the pumping rate at NW-2 was increased from 0.5 to 1 gpm in June 2012. NW-4 performance degraded

significantly during 2013 to 2015 and pumping was suspended in October 2015. Pumping was initiated at NW-5 on March 16, 2016 as a replacement for NW-4.

During May and June 2010, three new wells were installed in the northern area of Zone 3. The injection well, IW-A, was installed as part of a remedial enhancement program proposed in the Remedial Design Report (Chester Engineers, 2010c). The pilot study program started in April 2011 and involves injection of water amended with alkalinity. Two new nearby monitoring wells, MW-6 and MW-7, were installed to provide additional locations for monitoring water level changes associated with the injection and monitoring the groundwater quality. The injection capacity at IW-A declined over time. In late June 2012 the capacity had declined to ~ 0.2 gpm and it became very difficult to meet the target level for the well water level. On June 29, 2012, the injection at IW-A was terminated for this reason. Through this date, a total of 426,363 gallons of water had been injected.

Table B.1 presents the quarterly water level and water quality data for the monitoring wells from start-up of the Stage I wells in the third quarter of 1989 through the fourth quarter of 2019. Water levels for wells that are monitored only for water level were presented for the period from 1994 through 2002 in Earth Tech (2002d, Table B.2). Groundwater level updates for four of these wells (402, 424, 446, and NBL-01) were provided in Table B.1 of the 2004 Annual Review Report (N.A. Water Systems, 2004b), and the water levels for October 2019 are provided in Figure 36 of this 2019 Annual Review Report. Monthly field measurements and quarterly sample collection at Well NBL-01 were suspended as of March 2013 subsequent to determining that the water level dropped below the top of sediment accumulated at the base of the well. During 2015 it was determined that the Well 446 water level is below the bottom of the screened interval (there is a 10-foot section of blank well casing below the well screen) so is unreliable. The Zone 3 groundwater extraction system, and the likelihood that recharge from the alluvium has ceased, have resulted in dewatering a large portion of the Zone 3 Remedial Action Target Area and, consequently, many of the monitoring wells have gone dry since 1989. Water levels have declined such that there was insufficient water volume to collect samples for full laboratory analysis from Well MW 6 (quarterly samples beginning in July 2014), Well PB 2 (beginning in October 2013), and Wells PB-03 and PB-04 (annual samples beginning in October 2014). For these wells, water level and water quality data are presented for the period of time prior to dewatering. The laboratory analytical data for 2019 are presented at the end of this appendix.



LEGEND

- Extraction Well
- Extraction Well (Off)
- Former Extraction Well
- Groundwater Quality and Water Level Monitoring Well
- Water Level Monitoring Well
- Zone 3 Monitoring Well Removed From Monitoring Program
- Boundary Well
- Piezometer Installed in 2004
- Approximate Eastern Boundary of Zero Saturation
- Approximate Area of Zero Saturation
- Cell Boundary
- Property Boundary
- Zone 3 Target Remedial Action Area
- Section Boundary

Notes:

1. Aerial photo taken on August 1, 1996.
2. Extraction wells NW-1 through NW-5 installed September 2008; pumping started in three of the wells during February 2009.
3. PB-02 not pumping during 2019.

FIGURE B-1

Zone 3 2019 Monitoring Well Locations

United Nuclear Corporation Church Rock Site,
Church Rock, New Mexico

wood.

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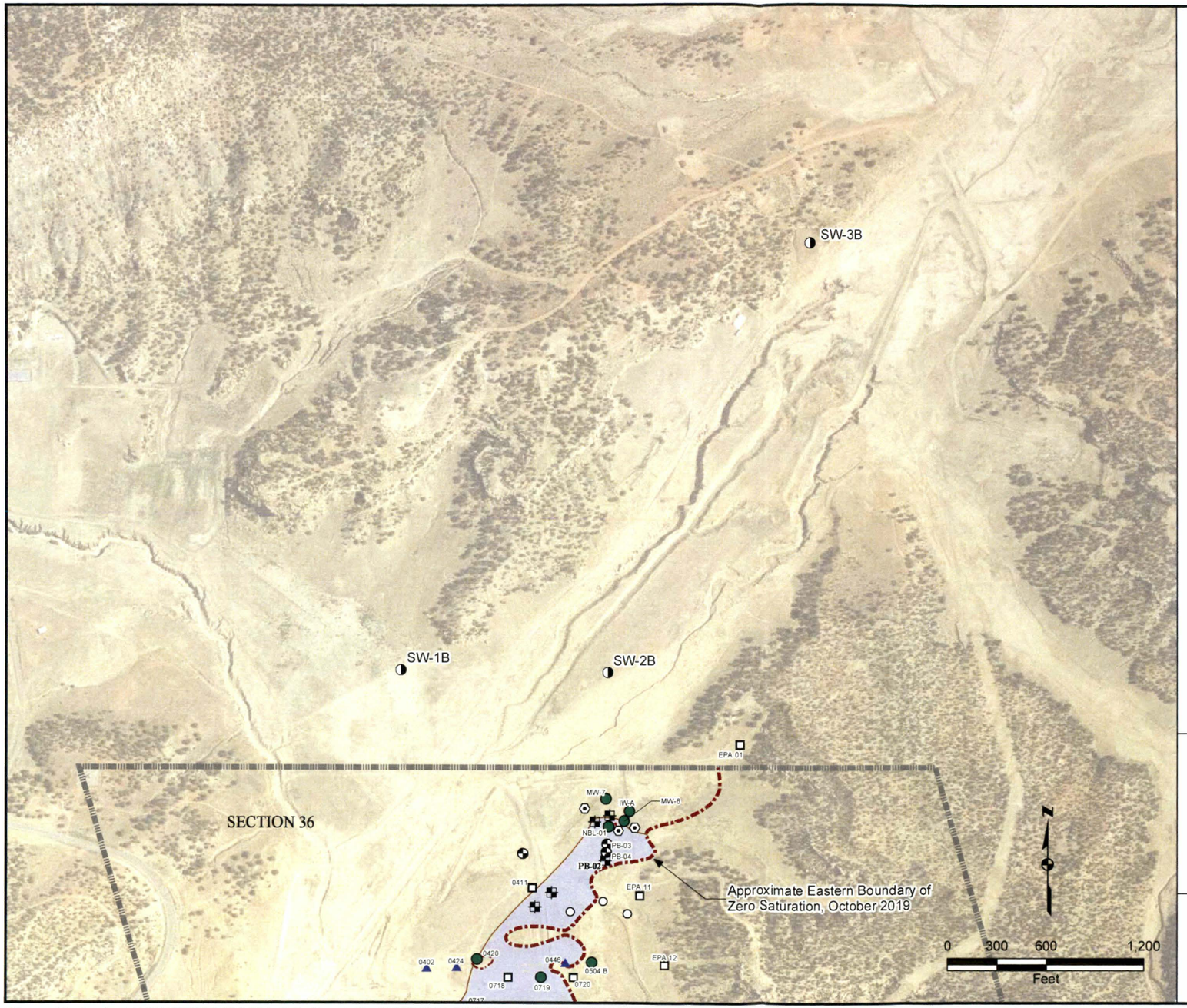

LEGEND

- Sentinel Monitoring Well
- Extraction Well
- Extraction Well (Off)
- Former Extraction Well
- Groundwater Quality and Water Level Monitoring Well
- Water Level Monitoring Well
- Zone 3 Monitoring Well Removed From Monitoring Program
- Boundary Well
- Piezometer Installed in 2004
- Approximate Eastern Boundary of Zero Saturation
- Approximate Area of Zero Saturation
- Cell Boundary
- Property Boundary
- Zone 3 Target Remedial Action Area
- Section Boundary
- Seepage Plume — *Approximate Area Impacted by Tailings Seepage*

Notes:
1. Aerial photo taken on August 1, 1996.

FIGURE B-2

Recently Installed (2019-2020) Sentinel Monitoring Well Locations

United Nuclear Corporation Church Rock Site, Church Rock, New Mexico

wood.

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APPENDIX B
ZONE 3 MONITORING DATA
(CONT.)

NOTES FOR TABLE B.1
ZONE 3 DATA SUMMARY, 1989 - 2019

General Notes:

1. NRC standard as listed in License Condition 30, Part B (revised 2015 [NRC, 2015] and with proposed corrections of typographical errors [GE, 2015]), based on updated BTVs for the site [UNC, 2012; GE, 2012b).
2. EPA standard is revised cleanup level based on updated BTV evaluation for the site (Chester Engineers, 2015b) and approved for use to complete Part III of the SWSFS (EPA, 2015).
3. Standard for nitrate reflects revised standards recommended in the NRC's 1996 evaluation of background water quality and documented in the January 6, 1998, letter from NMED to EPA.
4. NA - Not applicable.
5. Data qualifiers
    a. D - sample reporting limit was increased due to sample matrix.
    b. E - analyte concentration exceeded instrument calibration range (estimated result).
    c. H - analysis was performed past the recommended method holding time.
    d. U - Not detected at minimum detectable concentration.
    e. B – analyte detected in blank sample.
6. Values that exceed the NRC and/or EPA standards are shaded.
7. Gross alpha value excludes contribution from radon and uranium.
8. Reporting limit for bicarbonate changed from 0.0 mg/L to 0.1 mg/L in fourth quarter 1997.
9. Reporting limit for cadmium changed from 0.01 mg/L to 0.005 mg/L after fourth quarter 1997. The analytical method changed from EPA 200.7 (ICP) to 200.8 (ICP-MS).
10. Well NBL-01 was installed in June 2001 in accordance with the agencies during the November 14-15, 2000 meeting. The well is monitored for water level and water quality beginning August 2001.
11. NO3 (nitrate) is reported by the laboratory as nitrate + nitrite as N.
12. During August 2006, the NRC issued License Amendment 37 (NRC, 2006b) revising the former 1 ug/L chloroform groundwater protection standard to 80 ug/L for total trihalomethanes (TTHMs) in the Southwest Alluvium, Zone 1 and Zone 3; and also revising the current combined radium-226 and -228 groundwater protection standard of 5 pCi/L to 5.2 pCi/L in the Southwest Alluvium and 9.4 pCi/L in Zone 1. The combined radium standards have been subsequently revised (see Note 1).
13. Energy Laboratory's reporting of radiological analyses changed during 2008 (N.A. Water Systems, 2008d). This affected the reporting of Church Rock sample analyses beginning in April 2008 (2nd quarter). The changes were made to make the reporting methods consistent with Section 7.5 of The United States Nuclear Regulatory Commission's Regulatory Guide 4.14.
    The changes are summarized as follows:
    - A minimum detectable concentration (MDC) is determined and reported for each analysis.

- Sample results are reported regardless of whether they are lower than the MDC. for the analysis. This may result in the reporting of negative concentrations.
- Sample results lower than the MDC are qualified with a "U".

These noted changes affected the reporting of all radiological parameters analyzed in Church Rock samples, except for thorium-230. Energy Labs did not have an approved methodology for determining MDC values for thorium-230. In the absence of MDC values, the historical reporting limit was used instead. Therefore, U-qualified results for thorium-230 indicate concentrations below a reporting limit rather than an MDC. Otherwise, the reporting of thorium-230 results was treated similarly to other radiological parameters. This means that measured concentrations were reported with a U qualification if the values were below the reporting limit.

The rationale for reporting values below MDC or reporting limit, even if negative, is that errors associated with the reported values are expected, over time, to average to zero. This means that averages or sums (e.g. for total radium) of concentrations will tend to be more accurate if below limit (MDC or reporting) results are retained in the calculations.

14. At the request of EPA, UNC had the laboratory reduce the reporting limits for beryllium and lead. The new reporting limits are lower than the action levels. Beryllium's former reporting limit of 10 ug/L has been reduced to 1 ug/L (using lab method E200.7), and lead's former reporting limit of 50 ug/L has been reduced to 1 ug/L (using lab method E200.8). These changes were implemented during the July 2012 sampling event.
15. The laboratory analytical method for NH4-N was changed from A4500-NH3 G to E350.1 beginning in October 2018. The methods are considered equal and all results will be comparable.
16. Laboratory reporting limits for several analytes were reduced beginning in January 2018. These changes, most of which coincided with a change in the analytical method (from E200.7 to E200.8), are summarized as follows:
    - Aluminum from 0.1 mg/L to 0.03 mg/L.
    - Cadmium from 0.005 mg/L to 0.001 mg/L.
    - Cobalt from 0.01 mg/L to 0.005 mg/L.
    - Manganese from 0.01 mg/L to 0.001 mg/L.
    - Molybdenum from 0.1 mg/L to 0.001 mg/L.
    - Nickel from 0.05 mg/L to 0.005 mg/L.
    - Vanadium from 0.1 mg/L to 0.01 mg/L.
17. Only total values are included in the attached table. Speciation test results are provided for arsenic and selenium in Appendix D.
18. 2019 Third quarter sampling (normally completed in July) had to be resampled in August in wells (NW-2, NW-4, Well 142 and EPA 02, 04, 05 and 07) due to a refrigeration failure at ENERGY laboratory.

Specific Notes:

- Well 502 B was eliminated from the monitoring program as of 2nd quarter 2000 in accordance with the Revised Monitoring Program.

APPENDIX B
ZONE 3 MONITORING DATA
(CONT.)

- Well 711 was added to the monitoring program to replace Well 502 B.
- Well 708 is monitored for water level and water quality beginning 2nd quarter 2001.
- Well 518 was eliminated from the monitoring program as of 2nd quarter 2000 in accordance with the Revised Monitoring Program.
- Well EPA 9 is monitored for water level only beginning in 2nd quarter 2000.
- Well EPA 13 was monitored for water level only from 2nd quarter 2000 through 1st quarter 2001.
- Well EPA 13 is monitored for water level and water quality beginning in 2nd quarter 2001.
- Wells 402, 424, 446, 613, 701, 706, 707, 717, and 719 were added as water level monitoring wells as of 2nd quarter 2000.
- Wells 717 and 719 are monitored for water quality and water level beginning 2nd quarter 2001.
- Well 9 D contained insufficient water for sampling, 4th quarter 1992.
- Well 106 D contained insufficient water for sampling, 3rd quarter 1991.
- Well 501 B contained insufficient water for sampling, 4th quarter 1993.
- Well EPA 3 contained insufficient water for sampling, 1st quarter 1992.
- The water level in EPA 11 fell below the pump inlet after 2nd quarter 1990. The pump is cemented in place and cannot be lowered.
- Well EPA 12 contained insufficient water for sampling, 4th quarter 1992.
- Well EPA 15 contained insufficient water for sampling, 1st quarter 1996.
- Well EPA 17 contained insufficient water for sampling, 3rd quarter 1992.
- Well EPA 18 contained insufficient water for sampling, 1st quarter 1995.
- Well EPA 1 contained insufficient water for sampling, 1st quarter 1997.
- Well 411 contained insufficient water for sampling, 2nd quarter 1998.
- Well 504 B contained insufficient water for sampling, 1st quarter 2011.
- At the request of EPA, UNC started quarterly sampling of MW-6 and MW-7 during the July 2012 sampling event.
- At the request of EPA, UNC made turbidity measurements during the July and October 2012 sampling events.
- Well NBL-01 contained insufficient water for sampling beginning March 2013.
- Well PB-02 contained insufficient water for sampling beginning October 2013.
- Well MW-6 contained insufficient water for sampling beginning July 2014.
- Wells PB-03 and PB-04 contained insufficient water for sampling beginning October 2014.
- Well MW-7 could not be sampled during October 2015 due to pump failure.
- NW-3 will be sampled for the full parameter list quarterly starting October 2016 (for an undetermined amount of time) per a 2016 request from EPA for UNC to provide quarterly reporting related to potential seepage impacts north of the northern Zone 3 extraction wells.

APPENDIX B
ZONE 3 MONITORING DATA
(CONT.)

- The Well 420 water level dropped below the screened interval and the base of Zone 3 during the first quarter 2017 (water levels were possible because the a 5-ft section of blank well casing extend below the well screen). Therefore, water level measurements and water samples collected since then at this location are considered not to be representative of Zone 3 (the water chemistry associated with Zone 2 [primarily shale and coal] would be expected to be dissimilar).

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0411	N	7/23/1989	6,866.20	7.30	6.45	2458	454	125	107	6.4	246	1563	17.9	0.41	0.04	< 1	< 0.1	0.02	< 0.05	< 0.01	0.05	< 0.05	2.7	2	0.08	0.001	< 0.1	0.0543	6.7	6.3	13	10.2	< 1	14.6
0411	N	10/11/1989	6,864.90	6.30	6.90	2628	470	128	110	9.5	243	1688	20	0.55	0.09	< 1	< 0.1	0.031	< 0.05	< 0.01	0.06	< 0.05	3	2.5	0.09	< 0.001	< 0.1	0.081	5.4	< 1	5.4	< 0.2	< 1	6
0411	N	1/3/1990	6,863.70	6.00	6.50	2534	440	116	112	6.8	256	1509	19.8	0.39	0.08	< 1	< 0.1	0.018	< 0.05	< 0.01	0.03	< 0.05	2.3	1.8	0.07	< 0.001	< 0.1	0.055	6	3.1	9.1	< 0.2	< 1	8.2
0411	N	4/3/1990	6,862.30	6.00	6.60	2545	431	117	109	6.6	270	1444	19.7	0.33	0.08	< 1	< 0.1	0.018	< 0.05	< 0.01	0.05	< 0.05	2.5	2.4	0.08	< 0.001	< 0.1	0.05	4.7	2.4	7.1	< 0.2	< 1	5.3
0411	N	7/2/1990	6,861.20	5.80	6.60	2602	475	114	102	6	267	1483	19	0.2	0.08	< 1	< 0.1	0.009	< 0.05	< 0.01	0.04	< 0.05	2.44	1.77	0.07	< 0.001	< 0.1	0.0592	5.1	5.2	10.3	0.4	< 1	5
0411	N	10/2/1990	6,860.30	6.20	6.85	2527	406	110	109	6.5	266	1607	20.1	0.11	0.05	< 1	< 0.1	0.018	< 0.05	< 0.01	0.06	< 0.05	2.42	1.93	0.06	< 0.001	< 0.1	0.049	6.3	< 1	6.3	< 0.2	1.8	7.5
0411	N	1/3/1991	6,859.50	6.20	6.49	2746	468	126	117	15.7	262	1492	19.4	0.45	0.23	< 1	< 0.1	0.029	< 0.01	< 0.01	0.06	< 0.05	2.72	1.95	0.11	< 0.001	< 0.1	0.1131	6.9	3.7	10.6	< 0.2	< 1	7
0411	N	4/10/1991	6,859.20	6.00	7.23	2600	467	118	111	7.8	277	1453	22.3	0.19	0.05	< 1	< 0.1	0.029	< 0.01	< 0.01	0.05	< 0.05	2.01	1.34	0.06	< 0.001	< 0.1	0.0549	5.8	7.2	13	< 0.2	2.6	6
0411	N	7/16/1991	6,858.20	6.10	6.63	2705	419	110	113	6.3	278	1742	22.3	0.38	0.02	< 1	< 0.1	0.035	< 0.01	< 0.01	0.04	< 0.05	2.37	1.89	< 0.05	< 0.001	< 0.1	0.04	4.6	3.6	8.2	< 0.2	2	5
0411	N	10/14/1991	6,855.30	6.00	7.28	2851	414	98.6	123	5.8	271	1640	28.6	0.3	0.02	< 1	0.23	0.062	< 0.01	< 0.01	0.06	< 0.05	2.92	2.96	0.09	< 0.001	< 0.1	0.059	5.5	< 1	5.5	< 0.2	< 1	6
0411	N	1/14/1992	6,854.70	5.80	7.78	2939	467	128	119	6.5	255	1765	23.1	0.8	< 0.01	< 1	< 0.1	0.088	< 0.01	< 0.01	0.06	< 0.05	2.96	2.73	0.09	0.002	< 0.1	0.039	5.4	4.7	10.1	< 0.2	3.5	5
0411	N	4/7/1992	6,854.90	5.90	7.82	3064	475	144	140	8.4	401	1847	26.1	0.37	< 0.1	< 1	< 0.1	0.087	< 0.01	< 0.01	0.06	< 0.05	3.95	3.5	0.05	< 0.001	< 0.1	0.065	4.9	4.3	9.2	< 0.2	2.8	4.9
0411	N	7/7/1992	6,853.30	5.60	8.09	3340	473	170	144	9.6	244	2034	28.7	0.49	0.1	< 1	< 0.1	0.044	< 0.01	< 0.01	0.08	< 0.05	3.62	4.11	0.08	0.003	< 0.1	0.02	5.9	3.6	9.5	< 0.2	< 1	6.5
0411	N	10/6/1992	6,850.90	6.00	8.15	3860	634	239	139	9.2	259	2352	27.4	0.44	6.05	< 1	0.2	0.022	< 0.01	< 0.01	0.09	< 0.05	4.41	6.6	0.11	0.003	< 0.1	0.154	5.2	8.4	13.6	< 0.2	< 1	5.3
0411	N	1/6/1993	6,851.20	6.00	6.79	3091	530	208	127	10.6	246	2137	30.4	1.13	4.1	< 1	< 0.1	0.022	< 0.01	< 0.01	0.09	< 0.05	4.65	5.38	0.14	0.004	< 0.1	0.129	6.8	5.8	12.6	< 0.2	2.3	6.9
0411	N	4/6/1993	6,851.30	6.70	6.65	3306	510	200	140	8	245	2257	35.1	0.84	1.8	< 1	< 0.1	0.011	< 0.01	< 0.01	0.1	< 0.05	5.5	6.41	0.13	< 0.001	< 0.1	0.205	6.7	9.6	16.3	< 0.2	< 1	6.9
0411	N	7/16/1993	6,846.90	6.60	6.25	3412	586	242	166	12.2	321	2420	39.6	0.68	4.4	< 1	0.14	0.017	< 0.01	< 0.01	0.12	< 0.05	4.48	8.5	0.14	< 0.001	< 0.1	0.127	4.8	3.5	8.3	< 0.2	1.2	5.2
0411	N	10/6/1993	6,848.00	7.10	6.81	4026	614	285	149	9.3	340	2591	41.3	0.33	14.3	< 1	< 0.1	0.013	< 0.01	< 0.01	0.1	< 0.05	4	8.38	0.13	< 0.001	< 0.1	0.145	3.8	6.3	10.1	< 0.2	2.2	4
0411	N	1/5/1994	6,841.60	6.80	6.69	4298	557	276	149	9.3	303	2540	45.8	0.55	12.5	< 1	< 0.1	0.011	< 0.01	< 0.01	0.08	< 0.05	4.07	6.9	0.08	< 0.001	< 0.1	0.182	6.6	2.8	9.4	< 0.2	2.7	11.8
0411	N	4/14/1994	6,847.40	7.10	6.51	4006	620	274	146	9.8	294	2634	42.1	1.06	8.8	< 1	< 0.1	0.01	< 0.01	< 0.01	0.1	< 0.05	4.07	7.96	0.1	< 0.001	< 0.1	0.187	7.4	7.8	15.2	< 0.2	3.7	19.3
0411	N	7/21/1994	6,846.40	6.80	6.79	4253	645	287	141	9.6	293	2883	38.1	0.43	10.8	< 1	< 0.1	0.008	< 0.01	< 0.01	0.13	< 0.05	4.68	9.23	0.17	< 0.001	< 0.1	0.186	6.7	10.9	17.6	< 0.2	4.4	23.2
0411	N	7/29/1994	no data	6.50	7.30	4280	688	307	147	9.6	300	2906	43.5	0.54	17.3	< 1	0.12	0.009	< 0.01	< 0.01	0.08	< 0.05	3.87	8.49	0.13	0.001	< 0.1	0.234	9.4	4.7	14.1	< 0.2	1.2	16.6
0411	N	10/5/1994	6,846.20	6.80	7.36	4053	636	286	141	9.9	274	2509	36.9	0.99	5.17	< 1	< 0.1	0.009	< 0.01	< 0.01	0.08	< 0.05	4.42	6.59	0.13	0.004	< 0.1	0.156	6.7	13.1	19.8	< 0.2	< 1	26.5
0411	N	10/6/1994	no data	6.30	7.56	4404	653	300	167	9.8	331	2760	47.2	0.73	24.7	< 1	< 0.1	0.008	< 0.01	< 0.01	0.09	< 0.05	3.64	8.87	0.11	0.006	< 0.1	0.258	4.8	22.3	27.1	< 0.2	< 1	38.4
0411	N	1/10/1995	6,845.40	6.60	7.65	4276	675	213	139	11	295	2754	40.5	0.71	5.55	< 1	< 0.1	0.009	< 0.01	< 0.01	0.13	< 0.05	3.68	11.5	0.12	< 0.001	< 0.1	0.246	9.7	5.6	15.3	< 0.2	2.8	18.3
0411	N	4/11/1995	6,842.90	6.60	6.35	4320	645	283	152	9.5	182	2862	50	0.64	5.86	< 1	< 0.1	0.004	< 0.01	< 0.01	0.08	< 0.05	4.38	8.74	0.08	< 0.001	< 0.1	0.238	6.4	6.6	13	< 0.2	< 1	16.3
0411	N	7/11/1995	6,844.40	6.90	7.67	4038	605	315	147	9.4	379	2471	49.4	1.4	26.4	< 1	< 0.1	0.012	< 0.01	< 0.01	0.086	< 0.05	3.48	9.6	0.08	< 0.001	< 0.1	0.215	5.1	2.5	7.6	< 0.2	< 1	10.7
0411	N	10/3/1995	6,842.90	6.80	8.06	4526	645	322	162	9.1	383	2684	47	0.46	27.3	< 1	< 0.1	0.014	< 0.01	< 0.01	0.09	< 0.05	< 0.01	9.91	< 0.05	0.002	< 0.1	0.2669	8.4	< 1	8.4	< 0.2	1.5	14.7
0411	N	1/4/1996	6,845.40	7.10	6.69	4445	630	310	173	9.5	382	2655	45.3	0.06	29.2	< 1	< 0.1	0.006	< 0.01	< 0.01	0.09	< 0.05	3.18	10.6	0.07	< 0.001	< 0.1	0.287	5	4.6	9.6	< 0.2	2.6	5.7
0411	N	4/2/1996	6,844.50	7.00	7.67	4338	604	300	146	9.8	366	2666	40	0.2	8.92	< 1	< 0.1	0.014	< 0.01	< 0.01	0.08	< 0.05	3.8	8.8	0.07	< 0.001	< 0.1	0.306	4.5	3.1	7.6	< 0.2	< 1	4.8
0411	N	7/17/1996	6,844.10	7.00	6.80	4459	580	290	168	10.1	410	2730	52.1	0.25	28.1	< 1	< 0.1	0.007	< 0.01	< 0.01	0.09	< 0.05	3.39	10	0.06	< 0.001	< 0.1	0.281	5	4.7	9.7	< 0.2	< 1	8.2
0411	N	10/8/1996	6,844.20	6.90	7.61	4370	611	318	151	10.1	429	2542	45.6	0.3	45.4	< 1	< 0.1	0.012	< 0.01	< 0.01	0.07	< 0.05	3.38	9.97	0.06	< 0.001	< 0.1	0.164	3.5	7.8	11.3	< 0.2	< 1	2.4
0411	N	1/28/1997	6,844.30	6.80	7.83	4350	610	315	144	10.1	468	2726	56	0.63	13.2	< 1	< 0.1	0.013	< 0.01	< 0.01	0.06	< 0.05	3.11	10.7	< 0.05	0.002	< 0.1	0.145	3.6	< 1	3.6	0.5	< 1	4.5
0411	N	4/15/1997	6,844.20	7.10	7.77	4470	671	358	159	10.7	451	2610	51	0.22	29.1	< 1	< 0.1	0.013	< 0.01	< 0.01	0.06	< 0.05	3.04	10.5	< 0.05	< 0.001	< 0.1	0.235	4.7	2.5	7.2	< 0.2	< 1	5.8
0411	N	7/15/1997	6,844.10	6.90	7.83	4510	659	342	159	9.6	437	2750	54.8	0.2	33.9	< 1	< 0.1	0.014	< 0.01	< 0.01	0.08	< 0.05	2.7	9.8	0.05	0.002	< 0.1	0.212	4.5	2.2	6.7	< 0.2	< 1	3.9
0411	N	10/15/1997	6,844.00	6.80	7.93	4490	685	350	154	10.2	433	2620	62.3	0.32	30.3	< 1	< 0.1	0.01	< 0.01	< 0.01	0.1	0.05	2.96	9.85	0.06	0.002	< 0.1	0.25	2.9	6.4	9.3	< 0.2	< 1	4.2
0411	N	1/20/1998	6,844.00	6.70	7.95	4390	634	323	178	10.4	439	2700	57.5	0.46	31.2	< 1	< 0.1	0.007	< 0.01	< 0.005	0.1	< 0.05	3.33	11.1	0.05	< 0.001	< 0.1	0.244	4.4	3.5	7.9	< 0.2	< 1	3.1
0420	N	7/23/1989	6,882.00	6.30	6.52	2239	438	110	99	5.8	285	1293	16.5	0.56	60	< 1	< 0.1	0.012	< 0.05	< 0.01	< 0.01	< 0.05	1.4	9.1	< 0.05	0.001	< 0.1	0.0293	4.1	5	9.1	< 0.2	1.6	6.8
0420	N	10/11/1989	6,879.70	6.40	6.84	2328	402	112	96.8	8.5	244	1594	18.7	0.77	4.8	< 1	0.16	0.029	< 0.05	< 0.01	< 0.01	< 0.05	1.6	8.1	< 0.05	0.002	< 0.1	0.022	2.9	4.9	7.8	< 0.2	1.9	3.5
0420	N	1/3/1990	6,878.30	5.90	6.20	2680	431	141	99.5	7.1	196	1602	19.1	1.43	2.1	< 1	< 0.1	0.055	< 0.05	< 0.01	< 0.01	< 0.05	2.2	6	< 0.05	< 0.001	< 0.1	0.007	6.6	4	10.6	< 0.2	3.3	6.8
0420	N	4/3/1990	6,876.80	5.90	6.40	2725	439	149	97	7.1	209	1532	18.4	1.29	0.15	< 1	< 0.1	0.058	< 0.05	< 0.01	< 0.01	< 0.05	3	4.8	< 0.05	< 0.001	< 0.1	0.004	3.1	3.7	6.8	< 0.2	1.9	3.6
0420	N	7/2/1990	6,875.70	6.00	6.56	2708	464	140	91.7	6.2	226	1577	18.7	0.77	0.87	< 1	< 0.1	0.024	< 0.05	< 0.01	0.02	< 0.05	2.57	6	< 0.05	< 0.001	< 0.1	0.0087	2.8	2.5	5.3	< 0.2	1.5	3
0420	N	10/2/1990	6,874.60	6.10	6.57	2777	412	151	91.5	7.1	198	1771	18.8	0.66	< 0.01	< 1	< 0.1	0.034	< 0.05	< 0.01	< 0.01	< 0.05	3.39	4.2	< 0.05	< 0.001	< 0.1	0.003	5.3	< 1	5.3	< 0.2	< 1	5
0420	N	1/3/1991	6,874.00	6.20	7.30	2729	478	135	105	27	248	1574	18	0.82	6.8	< 1	< 0.1	0.024	< 0.01	0.01	< 0.01	< 0.05	2.16	4.9	< 0.05	< 0.001	< 0.1	0.0162	2.7	2.3	5	< 0.2	< 1	3
0420	N	4/10/1991	6,874.00	6.00	6.99	2635	483	143	102	7.9	269	1480	19.1	0.54	5.7	< 1	< 0.1	0.027	< 0.01	< 0.01	0.01	< 0.05	2.51	5.34	< 0.05	< 0.001	< 0.1	0.0127	3.4	4.7	8.1	< 0.2	1.1	3
0420	N	7/16/1991	6,872.40	5.90	6.43	2840	492	114	87.3	6.9	205	1888	17.5	1.1	0.11	< 1	< 0.1	0.04	< 0.01	< 0.01	< 0.01	< 0.05	3.25	3.54	< 0.05	< 0.001	< 0.1	0.003	4.8	3.6	8.4	< 0.2	2.2	5
0420	N	10/14/1991	6,866.70	5.90	7.01	2982	593	133	94.1	6.1	217	1819	21.6	1.2	0.07	< 1	< 0.1	0.066	< 0.01	< 0.01	< 0.01	< 0.05	4.05	2.42	< 0.05	< 0.001	< 0.1	0.072	6	< 1	6	< 0.2	< 1	6
0420	N	1/14/1992	6,868.50	5.90	8.17	2806	426	148	93.1	6.4	243	1831	17.8	1.3	2	< 1	< 0.1	0.053	< 0.01	< 0.01	< 0.01	< 0.05	3.42	2.45	< 0.05	< 0.001	< 0.1	0.007	2.2	2.8	5	0.8	1.3	2
0420	N	4/7/1992	6,868.70	5.80	7.89	2962	453	164	99.2	8.3	265	1890	16.2	1.4	< 0.1	< 1	< 0.1	0.032	< 0.01	< 0.01	< 0.01	< 0.05	4.98	1.76	< 0.05	< 0.001	< 0.1	0.026	2.7	9.7	12.4	< 0.2	< 1	2.7
0420	N	7/7/1992	6,862.80	5.70	7.71	3097	494	202	98.9	8.6	244	1750	18.3	1.78	0.2	< 1	0.13	0.036	< 0.01	< 0.01	< 0.01	< 0.05	4.25	2.35	< 0.05	0.001	< 0.1	0.02	3.7	4.8	8.5	< 0.2	< 1	3.9
0420	N	10/6/1992	6,861.90	6.00	6.83	3098	537	180	100	7.8	114	1991	23.2	1.2	< 0.1	< 1	0.3	0.111	< 0.01	< 0.01	< 0.01	< 0.05	4.25	1.6	< 0.05	0.002	< 0.1	< 0.0003	4.1	11.4	15.5	< 0.2	< 1	4.7
0420	N	1/6/1993	6,864.30	5.90	6.58	2512	455	152	86	6.7	119	1675	19.3	1.29	< 0.1	< 1	< 0.1	0.104	< 0.01	< 0.01	< 0.01	< 0.05	4.17	1.38	< 0.05	0.004	< 0.1	0.027	10.7	< 1	10.7	< 0.2	< 1	10.9
0420	N	4/6/1993	6,864.60	6.10	6.83	2505	413	118	111	5.4	222	1658	24.4	0.42	1.9	< 1	< 0.1	0.044	< 0.01	< 0.01	< 0.01	< 0.05	2.52	2.3	< 0.05	0.001	< 0.1	0.024	2.6	2.2	4.8	< 0.2	< 1	2.9
0420	N	7/13/1993	6,859.60	6.00	6.26	2704	435	169	100	7.2	143	1818	21.1	0.83	0.7	< 1	< 0.1	0.1	< 0.01	< 0.01	0.02	< 0.05	4.03	1.81	< 0.05	< 0.001	< 0.1	0.003	3.8	8.4	12.2	< 0.2	3	5.7
0420	N	10/6/1993	6,858.40	6.00	5.81	2947	497	165	95.4	6.6	84.5	2062	20.6	0.87	0.8	< 1	0.1	0.064	< 0.01	< 0.01	0.02	< 0.05	3.94	1.88	0.07	< 0.001	< 0.1	0.005	5.9	3.8	9.7	< 0.2	1.2	6
0420	N	1/5/1994	6,859.80	6.20	6.45	2915	475	145	97.7	6.3	181	1855	21.1	0.66	2.58	< 1	0.11	0.061	< 0.01	< 0.01	< 0.01	< 0.05	3.06	1.44	< 0.05	< 0.001	< 0.1	0.008	4.1	1.9	6	< 0.2	1.4	7.9
0420	N	4/13/1994	6,859.70	6.20	6.22	2930	504	167	92.6	6.5	91.2	2024	22.6	1.66	0.76	< 1	< 0.1	0.02	< 0.01	< 0.01	< 0.01	< 0.05	4.07	1.17	< 0.05	< 0.001	< 0.1	0.002	5	6.8	11.8	< 0.2	< 1	15.4
0420	N	7/20/1994	6,857.10	6.10	6.28	3540	602	192	102	7.2	89.3	2338	22.6	1.28	< 0.1	< 1	0.1	0.012	< 0.01	< 0.01	0.01	< 0.05	5	1.03	< 0.05	< 0.001	< 0.1	0.006	10.7	8.7	19.4	< 0.2	< 1	23.9
0420	N	10/4/1994	6,857.40	6.00	7.18	3297	593	186	111	7.6	133	2245	25.3	1.19	2.26	< 1	< 0.1	0.006	< 0.01	< 0.01	< 0.01	< 0.05	5.56	1.2	< 0.05	< 0.001	< 0.1	0.011	6	1.4	7.4	< 0.2	< 1	8.3
0420	N	1/4/1995	6,856.90	6.00	6.70	3434	593	188	105	7.6	116	2204	25.3	1.48	1.13	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.42	1.43	< 0.05	< 0.001	< 0.1	0.004	5.4	2.7	8.1	< 0.2	< 1	9.6

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0420	N	4/4/1995	6,856.50	6.10	6.36	3395	579	179	107	7.1	145	2237	31	1.09	2.09	< 1	< 0.1	0.007	< 0.01	< 0.01	0.02	< 0.05	3.45	1.21	< 0.05	< 0.001	< 0.1	0.008	4.7	4.8	9.5	< 0.2	< 1	12.1
0420	N	7/7/1995	6,855.10	6.20	7.57	3074	530	135	108	6.5	207	1882	25.7	0.46	6.35	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	0.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0205	3.4	5.5	8.9	< 0.2	< 1	7.5
0420	N	10/3/1995	6,854.30	6.40	7.61	3117	544	142	118	6.5	305	1821	28	0.24	7.17	< 1	< 0.1	0.005	< 0.01	< 0.01	< 0.01	< 0.05	2.08	0.76	< 0.05	< 0.001	< 0.1	0.0363	3.8	4.1	7.9	0.6	< 1	5.7
0420	N	1/3/1996	6,853.70	6.70	7.14	3084	545	162	115	6.1	322	1856	26.4	< 0.05	8.66	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.88	0.64	< 0.05	< 0.001	< 0.1	0.0392	2.7	< 1	2.7	0.8	1.6	3.7
0420	N	4/2/1996	6,852.90	6.90	7.85	3165	588	140	122	6.2	344	1890	30.2	0.1	18.4	< 1	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	1.9	0.54	< 0.05	< 0.001	< 0.1	0.1	2.2	2.5	4.7	< 0.2	< 1	3.2
0420	N	7/7/1996	6,852.20	6.70	7.40	3225	586	134	127	6.6	332	1816	30.2	0.24	16.7	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.98	0.59	< 0.05	< 0.001	< 0.1	0.051	2.9	7.3	10.2	< 0.2	3.1	2.1
0420	N	10/1/1996	6,851.60	6.50	6.97	3250	614	146	131	6.6	339	1821	30.4	< 0.05	22.8	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.9	0.61	< 0.05	0.003	< 0.1	0.044	2.1	< 1	2.1	< 0.2	< 1	2.1
0420	N	1/21/1997	6,851.80	5.90	7.83	3120	620	150	123	6.3	377	1926	36.2	0.07	24.3	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.1	0.59	< 0.05	< 0.001	< 0.1	0.043	2.2	< 1	2.2	< 0.2	< 1	1.6
0420	N	4/8/1997	6,851.50	6.80	7.96	3250	659	159	126	6.3	359	1944	34.6	0.06	23.8	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.03	0.52	< 0.05	0.007	< 0.1	0.05	3.9	3	6.9	< 0.2	< 1	6
0420	N	7/8/1997	6,850.60	7.30	7.92	3360	614	165	136	6.5	364	1940	36	0.06	25.6	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.97	0.73	< 0.05	< 0.001	< 0.1	0.053	2.8	< 1	2.8	< 0.2	< 1	2.5
0420	N	10/7/1997	6,850.00	6.60	7.78	3450	683	149	131	6.2	388	1900	38.8	0.06	31.5	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.3	0.54	< 0.05	< 0.001	< 0.1	0.049	3.3	1.9	5.2	< 0.2	< 1	1.9
0420	N	1/16/1998	6,850.00	7.00	7.83	3500	664	141	142	6.6	388	2000	39.2	0.32	43.5	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.6	0.56	< 0.05	< 0.001	< 0.1	0.0515	2.4	< 1	2.4	< 0.2	< 1	3.6
0420	N	4/7/1998	6,849.60	6.50	7.45	3510	659	149	135	6	340	1800	34.9	0.08	36.5	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.94	0.4	< 0.05	< 0.001	< 0.1	0.0495	3.5	< 1	3.5	< 0.2	< 1	4
0420	N	7/7/1998	6,850.20	6.90	7.58	3420	660	149	144	6.1	415	1900	35.5	0.16	34.7	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.98	0.4	< 0.05	0.001	< 0.1	0.0567	2.2	< 1	2.2	< 0.2	< 1	3.7
0420	N	10/6/1998	6,849.10	6.78	7.88	3530	657	123	148	6.9	415	2000	36.3	1.77	37.3	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.89	0.42	< 0.05	< 0.001	< 0.1	0.0674	4.8	< 1	4.8	< 0.2	< 1	3.2
0420	N	1/5/1999	6,848.40	6.80	7.82	3600	672	123	136	5.5	422	1830	34.1	< 0.05	32.2	< 1	< 0.1	< 0.001	< 0.01	0.007	< 0.01	< 0.05	1.97	0.37	< 0.05	< 0.001	< 0.1	0.054	3.5	1.5	5	< 0.2	4.7	4.7
0420	N	4/6/1999	6,848.10	6.50	7.96	3640	672	144	137	6.4	388	1870	39.5	0.11	28.5	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.01	0.56	< 0.05	< 0.001	< 0.1	0.0556	3.2	2.1	5.3	0.8	< 1	4.7
0420	N	7/13/1999	6,847.68	6.40	8.07	3560	708	111	123	7	411	1840	34.6	0.09	39.8	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.98	0.37	< 0.05	< 0.001	< 0.1	0.0578	2.2	2	4.2	< 0.2	< 1	2.7
0420	N	10/5/1999	6,847.20	6.72	7.63	3630	731	130	146	6.1	392	2100	38.9	0.07	47.7	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.23	0.34	< 0.05	< 0.001	< 0.1	0.054	2.4	4.4	6.8	< 0.2	< 1	1.9
0420	N	1/4/2000	6,846.20	6.60	7.97	3550	676	157	126	7	414	1870	34.6	< 0.05	50.7	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.01	0.36	< 0.05	0.001	< 0.1	0.0511	2.4	< 1	2.4	< 0.2	< 1	3.1
0420	N	5/1/2000	6,847.30	6.70	7.69	3500	616	139	127	6.5	452	1840	33.5	0.19	31.3	< 1	0.2	0.008	< 0.01	0.051	< 0.01	< 0.05	2.14	0.2	0.08	< 0.001	< 0.1	0.05	3.2	4.8	8	1	6.8	3.3
0420	N	7/10/2000	6,847.30	7.35	7.47	3500	664	151	141	5.86	456	1740	35	< 0.05	33.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.03	0.21	< 0.05	< 0.001	< 0.1	0.0436	2.8	4.2	7	< 0.2	< 1	2.8
0420	N	10/2/2000	6,848.20	7.03	7.24	3350	661	147	138	6.97	467	1750	38.6	0.07	18.7	< 1	< 0.1	0.007	< 0.01	< 0.005	< 0.01	< 0.05	2.25	0.15	< 0.05	< 0.001	< 0.1	0.0392	2.9	2.2	5.1	< 0.2	< 1	3.6
0420	N	1/15/2001	6,848.75	6.61	7.23	3200	617	123	119	6.9	474	1920	42	< 0.05	12.7	< 1	< 0.1	0.023	0.15	< 0.005	< 0.01	< 0.05	2.08	0.24	< 0.05	0.001	< 0.1	0.043	2.7	4	6.7	< 0.2	< 1	3.2
0420	N	4/2/2001	6,848.70	6.59	7.39	3290	695	139	126	5.7	467	1800	39.7	0.1	12.5	< 1	< 0.1	0.006	< 0.01	< 0.005	< 0.01	< 0.05	2.28	0.2	< 0.05	0.001	< 0.1	0.05	2.5	< 1	2.5	< 0.2	< 1	3
0420	N	7/16/2001	6,848.50	6.20	7.55	3330	592	126	162	11.4	474	1580	54.1	0.18	13.6	< 1	< 0.1	0.06	< 0.01	< 0.005	< 0.01	< 0.05	2.07	0.4	< 0.05	0.002	< 0.1	0.054	3.6	3.7	7.3	< 0.2	< 1	4.6
0420	N	10/8/2001	6,848.50	6.45	7.20	3360	600	130	115	6.3	516	1680	53.1	0.09	14	< 1	< 0.1	0.008	< 0.01	< 0.005	< 0.01	< 0.05	1.69	0.11	< 0.05	< 0.001	< 0.1	0.0546	2.5	2.1	4.6	< 0.2	< 1	3.4
0420	N	1/17/2002	6,849.45	6.20	7.20	3360	661	140	113	8	508	1700	62	0.07	13.3	< 1	0.13	0.003	< 0.01	< 0.005	0.01	< 0.05	2.04	0.16	0.06	< 0.001	< 0.1	0.0534	2.9	2.8	5.7	< 0.2	< 1	2.1
0420	N	4/8/2002	6,848.22	6.53	7.20	3410	644	140	130	6.9	565	1750	56.8	0.12	13.3	< 1	< 0.1	0.003	< 0.01	< 0.005	< 0.01	< 0.05	2.22	0.2	< 0.05	< 0.001	< 0.1	0.0671	3.5	3.3	6.8	< 0.2	< 1	4.5
0420	N	7/15/2002	6,848.10	6.36	7.51	3480	642	161	118	6.1	515	2015	39.1	0.19	14.6	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.87	0.2	< 0.05	< 0.001	< 0.1	0.0728	3.1	3	6.1	< 0.2	< 1	2.7
0420	N	10/14/2002	6,847.60	5.88	7.65	3080	680	151	123	6	569	1870	52.4	0.26	11.4	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	1.85	0.1	< 0.05	< 0.001	< 0.1	0.0779	2.4	< 1	2.4	< 0.2	< 1	2.4
0420	N	1/13/2003	6,847.13	7.22	7.22	3410	671	146	124	6.3	562	1700	44.8	0.27	14.4	< 1	< 0.1	0.003	< 0.01	< 0.005	< 0.01	< 0.05	1.97	0.2	< 0.05	< 0.001	< 0.1	0.0903	3.1	7.8	10.9	< 0.2	< 1	3.5
0420	N	4/15/2003	6,847.25	6.44	7.41	3440	657	152	144	8.6	566	1790	63.6	0.28	13.7	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	2.26	0.2	< 0.05	< 0.001	< 0.1	0.0882	3.4	5.3	8.7	< 0.2	< 1	4
0420	N	7/14/2003	6,846.66	6.35	7.64	3490	653	140	133	7.1	556	1630	57.7	0.3	13.4	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	1.9	0.2	< 0.05	< 0.001	< 0.1	0.0839	2.9	< 1	2.9	< 0.2	< 1	2.9
0420	N	10/13/2003	6,846.74	6.38	7.39	3440	712	158	138	6.8	576	1880	62.9	0.23	13	< 1	0.4	0.002	< 0.01	< 0.005	< 0.01	< 0.05	2	0.2	< 0.05	< 0.001	< 0.1	0.105	2.5	< 1	2.5	< 0.2	< 1	4.5
0420	N	1/12/2004	6,845.82	6.64	7.42	3460	740	164	141	7.4	614	1880	64.4	0.27	13.9 D	< 1.0	< 0.1	0.005	< 0.01	< 0.005	< 0.01	< 0.05	2.08	0.2	< 0.05	< 0.001	< 0.1	0.122 D	2.9	< 1.0	2.9	< 0.2	< 1.0	3.6
0420	N	4/12/2004	6,845.52	6.33	6.92	3480	662	147	129	8	537	1840	73.7	0.26	11.4 D	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	2.03	0.2	< 0.05	< 0.001	< 0.1	0.105 D	2.3	< 1	2.3	< 0.2	< 1	3.1
0420	N	7/19/2004	6,845.11	6.51	6.74	3420	746 D	156 D	154	6.8	684	1820 D	67	0.24	12.6 D	< 1.0	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	1.96	0.2	< 0.05	< 0.001	< 0.1	0.109 D	2.8	1.9	4.7	< 0.2	< 1.0	4.6
0420	N	10/11/2004	6,844.85	6.62	7.09	3520	646 D	144 D	146	7.2	579	1650 D	69	0.17	13.6 D	< 1.0	< 0.1	0.003	< 0.01	< 0.005	< 0.01	< 0.05	1.95	0.1	< 0.05	< 0.001	< 0.1	0.101	2.4	2.5	4.9	< 0.2	< 1.0	3
0420	N	1/10/2005	6,844.33	6.48	7.02	3550	732 D	156 D	143	7	610	1800 D	84	0.12	14.8 D	< 1.0	< 0.1	0.003	< 0.01	< 0.005	< 0.01	< 0.05	1.96	< 0.1	< 0.05	< 0.001	< 0.1	0.127	2.2	3.6	5.8	< 0.2	< 1.0	3.9
0420	N	4/11/2005	6,843.48	6.65	7.06	3410	724	157	160	7	551	1860	72	0.09	15.4	< 1.0	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	2.15	0.1	< 0.05	< 0.001	< 0.1	0.122	3.2	1.9	5.1	< 0.2	< 1.0	2.1
0420	N	7/18/2005	6,842.76	6.18	7.15	3600	707 D	137	153 D	4.2 D	564	1730	71	0.19	16.4 D	< 1.0	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	2.16	0.1	< 0.05	< 0.001	< 0.1	0.126	2.3	3	5.3	< 0.2	< 1.0	3
0420	N	10/10/2005	6,842.13	6.65	7.22	3510	713 D	147	154	6.9	586	1780 D	73	0.2	15.1 D	< 1.0	< 0.1	0.006	< 0.01	< 0.005	< 0.01	< 0.05	2.37	0.1	< 0.05	< 0.001	< 0.1	0.113	3.8	2.4	6.2	< 0.2	< 1.0	5.2
0420	N	1/16/2006	6,841.56	6.63	7.36	3480	689 D	127	142	7	537	1770 D	68	0.12	13.2 D	< 1.0	< 0.1	0.003	< 0.01	< 0.005	< 0.01	< 0.05	2.19	0.1	< 0.05	< 0.001	< 0.1	0.121	2.6	3.2	5.8	< 0.2	< 1.0	4.2
0420	N	4/10/2006	6,841.11	6.54	7.25	3330	773 D	164 D	141	7.1	781	1890 D	84	0.12	13.8 D	< 1.0	< 0.1	0.003	< 0.01	< 0.005	< 0.01	< 0.05	2.11	0.1	< 0.05	< 0.001	< 0.1	0.136	1.8	3.4	5.2	< 0.2	< 1.0	2.6
0420	N	7/24/2006	6,840.48	6.42	6.87	3340	673	150 D	157	7.1	476	1800 D	67	0.14	14.5 D	< 1.0	< 0.1	0.005	< 0.01	< 0.005	< 0.01	< 0.05	2.09	0.2	< 0.05	< 0.001	< 0.1	0.125	2.4	2.1	4.5	< 0.2	< 1.0	3.8
0420	N	10/9/2006	6,840.03	6.60	6.90	3350	676	155 D	150	6.9	550	1800 D	63	0.15	14.8 D	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.92	0.1	< 0.05	< 0.001	< 0.1	0.131	2.6	1.8	4.4	< 0.2	< 1	1.7
0420	N	1/16/2007	6,840.28	6.94	6.69	3400	687 D	153 D	145	6.8	518	1780 D	70	0.06	15.6 D	<0.5	<0.1	0.006	<0.01	<0.005	<0.01	<0.05	1.93	0.2	<0.05	<0.001	<0.1	0.15	2.9	<1	2.9	<0.2	<1	3.2
0420	N	4/17/2007	6,838.60	6.98	7.06	3540	601 D	161 D	140	6.8	237	1900 D	75	<0.05	14.6 D	<0.5	<0.1	0.003	<0.01	<0.005	<0.01	<0.05	0.27	0.1	<0.05	<0.001	<0.1	0.138	2.2	2.4	4.6	<0.2	<1	2.3
0420	N	7/17/2007	6,837.18	6.53	7.59	3160	596 D	156 D	150	6.7	749	1870 D	66	0.13	20 D	<0.5	<0.1	0.03	<0.01	<0.005	<0.01	<0.05	1.01	0.2	<0.05	<0.001	<0.1	0.133	2.3	4.5	6.8	<0.2	<1	2.3
0420	N	10/9/2007	6,837.33	7.11	7.13	3340	649 D	137 D	125	6.1	476	1860 D	43	<0.05	2.8	<0.5	<0.1	0.005	<0.01	<0.005	<0.01	<0.05	2.05	0.1	<0.05	<0.001	<0.1	0.269	1.7	3.5	5.2	<0.2	<1	3.1
0420	N	1/22/2008	6,836.90	6.69	7.12	3320	654 D	131	137	7.3	455	1890 D	50	0.08	0.5	< 0.5	< 0.1	0.037	< 0.01	< 0.005	0.01	< 0.05	1.83	0.3	< 0.05	< 0.001	< 0.1	0.303	4.2	2.8	7	< 0.2	3.7	4.4
0420	N	4/15/2008	6,836.58	6.69	7.1	3240	694	138	139 D	6.5	436	2110 D	39	0.05	< 0.1	< 0.50	0.1	0.006	< 0.01	< 0.005	0.01	< 0.05	1.84	0.4	< 0.05	< 0.001	< 0.1	0.282	2	4.4	6.4	0.1 U	<4.9 U	4
0420	N	7/15/2008	6,836.03	6.64	6.91	3350	619	128	129 D	6	451	1980 D	39	< 0.05	< 0.1	< 0.5	< 0.1	0.004	< 0.01	< 0.005	0.01	< 0.05	1.84	0.3	< 0.05	< 0.001	< 0.1	0.27	4.5	4.6	9.1	<0.2 U	4.8 U	3.8
0420	N	10/14/2008	6,835.49	6.49	6.78	3390	630	130	132 D	6	468	2120 D	37	< 0.4	< 0.1	< 0.5	1.3	0.008	< 0.01	< 0.005	0.02	< 0.05	2.16	0.9	< 0.05	0.001	< 0.1	0.294	4	3.4	7.4	0.1 U	1.3 U	5.6
0420	N	1/20/2009	6,835.03	6.59	7.1	3450	664	143	145	7	458	1860 D	39	<0.05	<0.1	<0.5	0.8	0.005	<0.01	<0.005	0.02	<0.05	2.08	0.5	<0.05	0.002	<0.1	0.276	3.1	4.9	8	0.1 U	0.3 U	3.9
0420	N	4/14/2009	6,834.98	6.46	6.68	3330	603	131	138	6	464	2020 D	41	0.05	<0.1	<0.50	0.3 D	0.007	<0.01	<0.005	0.02	<0.05	2.00 D	0.5	<0.05	<0.001	<0.1	0.296	2.1	3.8	5.9	0.001 U	0.0 U	5.7
0420	N	7/14/2009	6,834.38	6.45	7.25	3390	640	133	136	7	451	2060 D	43	<0.05	<0.1	<0.50	0.2	<0.001	<0.01	<0.005	0.02	<0.05	2.16	0.4	<0.05	<0.001	<0.1	0.284	2.4	3.7	6.1	0.05 U	<0.2 U	4.4
0420	N	10/13/2009	6,834.08	6.48	7.69	3390 H	654	137	136	7	467	2030 D	46	0.1	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	0.02	<0.05	2	0.3	<0.05	<0.001	<0.1	0.298	3.3	5	8.3	0.05 U	1.3 U	4.1
0420	N	1/12/2010	6,833.53	6.48	6.8	3270	669	133	141	7	478	2050 D	41	<0.05	<0.10	<0.50	0.2	<0.001	<0.01	<0.005	0.02	<0.05	1.8	0.4	<0.05	<0.001	<0.1	0.362	2.5	8.9	11.4	<0.02 U	0.4 U	3.5

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0420	N	4/13/2010	6,833.38	6.69	6.86	3420	672	136	142	6	520	2070 D	46	0.16	<0.1	<0.50	0.3	0.004	<0.01	<0.005	0.02	<0.05	1.71	0.5	<0.05	<0.001	<0.1	0.362	3.5	6.1	9.6	<0.01 U	0.5 U	3.2
0420	N	7/20/2010	6,833.03	6.47	7	3410 H	642	134	137	6	500	2010 D	45 D	0.14	<0.1	<0.50	0.2	0.003	<0.01	<0.005	0.02	<0.05	1.71	0.6	<0.05	<0.001	<0.1	0.424	4.3	10	14.3	0.04 U	<1 U	4.2
0420	N	10/12/2010	6,832.88	6.54	7.42	3540	668	133	150	7	547	1960 D	47 D	0.14	<0.1	<0.50	<0.1	0.001	<0.01	<0.005	0.02	<0.05	1.5	0.6	<0.05	<0.001	<0.1	0.425	3.8	12	15.8	0.02 U	0.1 U	4.4
0420	N	1/11/2011	6,832.65	6.68	7.62	3370	651	135	138	6	530	1990 D	52 D	0.05	<0.1	<0.50	<0.1	0.005	<0.01	<0.005	0.02	<0.05	1.87	0.7	<0.05	<0.001	<0.1	0.439	4.7	6.4	11.1	0.05 U	1.6	5
0420	N	4/12/2011	6,832.08	6.63	7.2	3330	701	140	153	7	521	2010 D	51 D	0.11	<0.1	<0.50	0.3	0.008	<0.01	<0.005	0.02	<0.05	1.72	0.7	<0.05	<0.001	<0.1	0.448	4.6	6.3	10.9	0.03 U	1.7	5.3
0420	N	7/19/2011	6,831.48	6.65	7.77	3340	664	137	151	7	500	1980 D	53 D	<0.2	<0.5	<0.50	0.3	0.003	<0.01	<0.005	0.02	<0.05	1.71	0.8	<0.05	<0.001	<0.1	0.4	4.8	5.9	10.7	0.05 U	<0.4 U	4.5
0420	N	10/11/2011	6,831.38	6.58	7.55	3410	670	140	151	7	481	2070 D	54 D	<0.2	<0.5	<0.50	0.2	<0.001	<0.01	<0.005	0.01	<0.05	1.5	0.7	<0.05	<0.001	<0.1	0.354	4.9	6.8	11.7	0.1 U	0.2 U	5.9
0420	N	1/10/2012	6,830.93	6.71	6.51 H	3430	700	128	135	6	477	1980 D	50 D	0.09	<0.1	<0.50	0.1	0.01	<0.01	<0.005	0.02	<0.05	1.5	1.2	<0.05	0.002	<0.1	0.406	4.7	6.2	17.1	0.04 U	0.8 U	5.3
0420	N	4/10/2012	6,830.43	6.73	6.93 H	3510	643	137	141	6	483	1960 D	50 D	0.08	<0.1	<0.50	0.6	<0.01	<0.01	<0.005	0.02	<0.05	1.21	1	<0.05	<0.001	<0.1	0.39	5.3	8.4	22.1	0.01 U	0.9 U	4.7
0420	N	7/17/2012	6,830.13	6.53	6.86 H	3530	695	146	170	8	499	2040 D	52 D	0.06	<0.1	<0.50	0.4	0.002	<0.001	<0.005	0.02	0.001	0.88	0.8	<0.05	0.002	<0.1	0.4 D	4.7	7.1	18.9	0.08 U	1.2	6.6
0420	N	10/16/2012	6,829.88	6.72	7.14 H	3550	718	144	156	7	503	2070 D	52 D	0.1	<0.1	<0.50	0.2	<0.001	<0.001	<0.005	0.02	<0.001	1.43	0.9	<0.05	<0.001	<0.1	0.388	4.4	8.1	12.5	0.09 U	0.3 U	5.2
0420	N	1/8/2013	6,829.53	6.72	7.22 H	3580	712	149	157	7	484	2090 D	51 D	0.07	<0.1	<0.50	0.3	<0.001	<0.001	<0.005	0.02	<0.001	1.55	0.8	<0.05	<0.001	<0.1	0.41	4.8	5.3	10.1	0.08 U	1.2 U	4
0420	N	4/9/2013	6,829.61	6.69	7.09 H	3650	750	155	171	8	486	2180 D	53 D	0.05	<0.1	<0.50	0.2	<0.001	<0.001	<0.005	0.02	<0.001	1.68	0.7	<0.05	<0.001	<0.1	0.403	6.5	7.7	14.2	0.08	0.7 U	6.8
0420	N	7/15/2013	6,828.92	6.98	7.57 H	3730	732	155	158	7	405	2210 D	55 D	0.05	<0.1	<0.50	0.4	0.002	<0.001	<0.005	0.02	<0.001	1.07	0.8	<0.05	<0.001	<0.1	0.441	4	12	16	-0.01 U	0.2 U	4.8
0420	N	10/7/2013	6,828.64	7.09	7.50 H	3650	730	159	162	8	452	2160 D	54 D	<0.05	<0.1	<0.50	0.4	<0.001	<0.001	<0.005	0.02	<0.001	0.83	0.8	<0.05	<0.001	<0.1	0.438	5.6	6.2	11.8	0.05	0.4 U	5.7
0420	N	1/13/2014	6,828.20	6.88	6.74	3840	723	155	151	7	523	2170	52	<0.05	<0.1	<0.50	1.2	0.002	<0.001	<0.005	0.02	0.002	2.12	1.1	<0.05	0.002	<0.1	0.407	4.5	8.3	12.8	0.3	2.8	10.1
0420	N	4/7/2014	6,827.90	6.80	6.81 H	3790	729	164	159 D	7	492	2220 D	53	<0.05	<0.1	<0.50	0.3	0.002	<0.001	<0.005	0.02	0.001	1.27	0.7	<0.05	<0.001	<0.1	0.387	4.5	5.4	9.9	0.07 U	1.3	4.7
0420	N	7/14/2014	6,827.65	6.68	7.07 H	3680	765	169	157 D	7	427	2330 D	52	<0.05	<0.1	<0.50	1.3	0.002	<0.001	<0.005	0.01	0.004	1.18	1.3	<0.05	0.002	<0.1	0.386	5.2	5.9	11.1	0.5	0.5 U	6
0420	N	10/13/2014	6,827.44	6.77	6.97 H	4000	736	162	157	7	434	2460 D	55 D	<0.05	<0.1	<0.50	1.4	<0.001	<0.001	<0.005	0.02	0.005	1.86	1.3	<0.05	0.003	<0.1	0.337	6.3	10	16.3	0.3	0.8 U	6
0420	N	1/12/2015	6,827.24	6.94	6.99 H	4000	745	169	155	7	415	2470 D	51 D	<0.05	0.1	<0.50	1.9	0.002	<0.001	<0.005	0.03	0.005	2.11	1.2	0.07	0.002	<0.1	0.344	5.3	5.4	10.7	0.2	1.7	11
0420	N	4/13/2015	6,826.93	6.61	7.22 H	3990	687	167	154	7	398	2380 D	54	<0.05	<0.1	<0.50	1.5	0.002	<0.001	<0.005	0.02	0.003	1.68	0.9	0.05	0.001	<0.1	0.359	4.6	4.4	9	0.08 U	1.5	16
0420	N	7/13/2015	6,826.94	6.60	7.04 H	3950	714	171	163 D	7	399	2430 D	50 D	<0.05	<0.1	<0.50	0.6	0.005	<0.001	<0.005	0.01	0.002	1.51	0.8	0.06	0.001	<0.1	0.334	5.4	8.5	13.9	0.3	1.0 U	13.1
0420	N	10/12/2015	6,826.48	6.63	6.98 H	4060	731	177	156	7	380	2550 D	55	<0.05	<0.1	<0.50	1.7	<0.001	<0.001	<0.005	0.02	0.004	2.07	1.2	<0.05	0.003	<0.1	0.32	3.1	3.9	7	0.1 U	1.3 U	5.9
0420	N	1/11/2016	6,826.27	6.79	6.77 H	3990	736	173	154	8	379	2540 D	57	<0.05	0.1	<0.50	0.7	<0.001	<0.001	<0.005	<0.01	0.002	1.92	0.6	<0.05	<0.001	<0.1	0.288	3.5	3.4	6.9	0.1 U	1.3	29.1
0420	N	4/11/2016	6,826.26	6.61	6.87 H	3960	710	177	156	7	351	2300 D	47	<0.05	0.1	<0.50	1.4	<0.001	<0.001	<0.005	<0.01	0.004	1.98	0.7	<0.05	<0.001	<0.1	0.268	5.5	4.4	9.9	2.6 U	1.3 U	29.9
0420	N	7/18/2016	6,825.95	6.50	7.07 H	3870 DH	705	173	150	7	377	2310 D	47	0.08	<0.1	<0.50	1.4	0.001	<0.001	<0.005	<0.01	0.003	1.7	0.6	<0.05	0.001	<0.1	0.26	4.1	5.1	9.2	0.1 U	1.9	7.4
0420	N	10/10/2016	6,825.86	6.58	7.00 H	3820 H	689	177	149	8	376	2380 D	46	0.41	<0.1	<0.50	0.4	<0.001	<0.001	<0.005	0.01	0.001	2.35	0.4	<0.05	<0.001	<0.1	0.244	4.4	6	10.4	0.3	1.5	8.2
0420	N	1/16/2017	6,826.32	6.76	6.94 H	3800 D	682	173	143	7	359	2390 D	46	0.38	0.1	<0.50	0.2	<0.001	<0.001	<0.005	0.02	<0.001	2.35	0.4	<0.05	<0.001	<0.1	0.232	3.8	3.3	7.1	0.1 U	1.2	7.4
0420	N	4/10/2017	6,825.52	6.35	6.95 H	3800 D	669	169	147	8	346	2360 D	46	0.32	0.1	<0.50	0.2	<0.001	<0.001	<0.005	0.02	<0.001	2.32	0.4	<0.05	<0.001	<0.1	0.226	3.1	2.1	5.2	0.1 U	0.6 U	7.1
0420	N	7/17/2017	6,825.53	6.46	7.17 H	3850 D	687	179	148 D	7	320	2250 D	45	0.32	0.19	<0.50	0.1	<0.001	<0.001	<0.005	0.03	<0.001	2.3	0.4	<0.05	<0.001	<0.1	0.23	2.3	2.7	5	0.06 U	1.4	4.1
0420	N	10/9/2017	6,825.35	6.40	7.04 H	3690 D	645	173	137 D	7	363	2360 D	45	0.89	0.03	<0.50	<0.1	<0.001	<0.001	<0.005	0.04	0.001	3.45	0.3	0.09	<0.001	<0.1	0.208	3.9	4.5	8.4	0.1 U	-3 U	3.1
0420	N	1/15/2018	6,825.24	6.59	6.98 H	3780 D	687	193	149	8	314	2430 D	44	0.88	0.2	<0.50	0.52	<0.001	<0.001	<0.001	0.038	0.002	2.93	0.481	0.043	<0.001	<0.01	0.217	2.9	7.1	10	0.07 U	0.5 U	4.5
0420	N	4/9/2018	6,824.88	6.44	7.19 H	3870 D	673	176	148	7	328	2430 D	42	0.93	0.23	<0.50	0.2	<0.001	<0.001	<0.001	0.051	0.001	3.44	0.434	0.052	<0.001	<0.01	0.205	3.2	3.3	6.5	0.01 U	0.3 U	4.3
0420	N	7/16/2018	6,824.88	6.39	7.21 H	3800 D	634	181	151	6	317	2380 D	42	1.17	0.14	<0.50	0.09	<0.02	<0.001	<0.001	0.049	<0.001	3.15	0.372	0.056	0.001	<0.01	0.196	4.4	5.9	10.3	0.07 U	0.9 U	4.1
0420	N	10/8/2018	6,824.99	6.38	6.69 H	3830 D	688	182	136	8	314	2280 D	41	1.14	0.07	<0.50	0.69	0.011	<0.001	<0.001	0.057	0.003	2.89	1.05	0.057	0.001	<0.01	0.194	3.9	9.7	13.6	0.2	1.7	6
0420	N	1/14/2019	6,824.68	6.57	6.72 H	3760 D	644	183	137	8	304	2280 D	40	1.49	0.12	<0.50	0.6	no data	<0.001	<0.001	0.067	0.001	2.7	0.551	0.059	no data	<0.01	0.199	5.3	2.7	8	0.3	0.5U	6
0420	N	4/15/2019	6,824.64	6.28	6.74 H	3810 DH	678	177	132	8	302	2360 D	41	1.9 d	0.45	<0.50	0.1	0.019	<0.001	<0.001	0.077	<0.001	3.22	0.328	0.063	<0.001	<0.01	0.201	3.8	4.9	8.7	0.04	-0.09 U	9.6
0420	N	7/23/2019	6,824.37	6.22	6.77 H	3830 DH	590	209	135	10	275	2330 D	38	4.7	0.06	<0.50	0.11	0.022	<0.001	<0.001	0.124	<0.001	4.66 D	0.231	0.108	<0.001	<0.01	0.146	5.5	7.1	12.6	0.07 U	1.5	6.4
0420	N	10/3/2019	6,824.31	6.33	6.71 H	3800 DH	638	197	143	10	260	2380 D	39	3.5 D	0.18	<0.50	0.04	0.008	<0.001	<0.001	0.119	<0.001	4.43 L	0.23	0.099	<0.001	<0.01	0.168	5.2	5.7	10.9	0.06 U	0.7 U	7.2
0517	N	7/23/1989	6,899.70	6.00	6.51	3617	543	291	111	4.5	303	2079	20.9	0.53	39	1.1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.58	0.14	< 0.05	0.001	< 0.1	0.252	11.9	9.5	21.4	< 0.2	2.1	44.1
0517	N	10/11/1989	6,893.20	6.10	6.50	3738	507	290	117	6.8	298	2199	21.8	0.31	43	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.01	0.06	0.64	0.18	< 0.05	0.013	< 0.1	0.196	4.3	4.2	8.5	< 0.2	2.8	4.7
0517	N	1/3/1990	6,894.80	5.40	5.90	4096	523	318	138	8.1	168	2434	27.9	0.74	45	< 1	0.11	< 0.001	< 0.05	< 0.01	0.01	< 0.05	1.3	0.32	< 0.05	0.001	< 0.1	0.088	8.9	4.5	13.4	< 0.2	4.5	10.5
0517	N	4/3/1990	6,892.60	5.60	6.24	4306	515	360	140	8.1	220	2556	28.3	0.9	44	< 1	0.11	< 0.001	< 0.05	< 0.01	0.03	< 0.05	2	0.16	< 0.05	< 0.001	< 0.1	0.09	9.3	10.2	19.5	< 0.2	1	10.8
0517	N	7/2/1990	6,892.90	5.60	6.20	4318	526	387	127	7	231	2456	26.1	0.26	47.8	< 1	0.1	< 0.001	< 0.05	< 0.01	0.01	< 0.05	1.81	0.2	< 0.05	0.001	< 0.1	0.136	8.3	2.2	10.5	< 0.2	1.2	10
0517	N	10/16/1990	6,892.60	5.50	6.30	4083	440	532	131	7.2	170	2574	22.8	0.36	27.1	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.04	< 0.05	2.89	0.1	0.09	< 0.001	< 0.1	0.046	11.1	1.4	12.5	< 0.2	< 1	10
0517	N	1/16/1991	6,893.60	5.70	6.42	4235	554	385	157	8.1	227	2706	27.5	0.25	49.3	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.04	< 0.05	2.37	< 0.1	0.05	0.001	< 0.1	0.0814	10	1	11	< 0.2	< 1	11.3
0517	N	4/10/1991	6,894.50	5.70	6.80	4204	541	376	136	6.2	284	2370	31.4	0.27	61	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.06	< 0.05	2.93	0.17	0.11	0.001	< 0.1	0.1666	8.1	8.3	16.4	< 0.2	< 1	8
0517	N	7/16/1991	6,891.60	5.60	6.42	4550	546	353	136	6.8	215	3014	50.3	0.25	67	2.6	< 0.1	< 0.001	< 0.01	< 0.01	0.04	< 0.05	2.63	0.06	0.01	< 0.001	< 0.1	0.149	8	7.6	15.6	< 0.2	< 1	9
0517	N	10/14/1991	6,887.60	5.50	6.39	5348	452	393	175	6.2	142	3173	77.6	0.39	30.3	3.2	0.12	0.001	< 0.01	< 0.01	0.12	< 0.05	4.46	0.1	0.06	< 0.001	< 0.1	0.03	5.1	6.1	11.2	< 0.2	< 1	5
0517	N	1/14/1992	6,888.80	5.30	6.04	5847	490	544	185	7.2	117	3571	76.9	1.76	36.1	3.2	0.13	< 0.001	< 0.01	< 0.01	0.13	< 0.05	5.29	0.11	0.09	0.026	< 0.1	0.012	13.6	6.3	19.9	< 0.2	1.3	14
0517	N	4/7/1992	6,888.80	5.30	7.19	5539	518	495	199	8.1	103	3457	61.7	2.32	26.7	3.4	< 0.1	0.002	< 0.01	< 0.01	0.12	< 0.05	5.69	< 0.1	0.1	0.02	< 0.1	0.03	6.3	13.5	19.8	< 0.2	1.3	6.6
0517	N	7/7/1992	6,884.70	5.20	6.91	5413	528	480	195	9.68	85.4	3334	66.3	3.78	40.5	4	0.15	< 0.001	0.094	< 0.01	0.12	< 0.05	4.27	< 0.1	0.07	0.001	< 0.1	0.006	6.7	13.9	20.6	< 0.2	< 1	6.9
0517	N	10/6/1992	6,882.60	5.20	6.73	5109	530	451	186	7	73.2	3169	62.9	3.29	41.8	4.1	0.1	< 0.001	< 0.005	< 0.01	0.13	< 0.05	3.92	< 0.1	0.12	0.005	< 0.1	0.007	8.8	27.9	36.7	< 0.2	< 1	8.9
0517	N	1/6/1993	6,883.20	5.30	6.88	4169	459	374	148	6.9	75.6	2856	75.8	1.13	48.1	6.7	0.1	< 0.001	< 0.01	< 0.01	0.1	< 0.05	3.38	< 0.1	0.11	0.003	< 0.1	0.011	10.1	35.8	45.9	< 0.2	< 1	10.6
0517	N	4/6/1993	6,884.20	5.30	6.08	4493	458	438	183	6.1	71	3066	74.1	3.76	34.5	7	< 0.1	< 0.001	< 0.005	< 0.01	0.11	< 0.05	4.66	< 0.1	0.11	0.002	< 0.1	0.007	6.7	21.3	28	< 0.2	< 1	6.9
0517	N	7/13/1993	6,882.10	5.40	5.64	5166	557	498	195	9.4	46.1	3734	77.5	11.9	38.5	8.8	0.86	< 0.001	< 0.005	< 0.01	0.2	< 0.05	7.27	< 0.1	0.17	0.001	< 0.1	0.003	8.5	20.3	28.8	< 0.2	3.6	10.9
0517	N	10/6/1993	6,880.10	4.80	4.49	5918	589	508	185	10.3	1.8	3901	79.6	26.9	39.3	< 1	11.2	< 0.001	< 0.005	< 0.01	0.32	< 0.05	12.2	< 0.1	0.38	< 0.001	< 0.1	0.003	19.4	30.7	50.1	< 0.2	< 1	20.5
0517	N	1/5/1994	6,880.00	4.90	4.60	5674	518	461	195	11	5.7	3740	88.4	6.52	33.8	9.5	11.1	< 0.001	< 0.01	< 0.01	0.31	< 0.05	11.6	< 0.1	0.27	< 0.001	< 0.1	0.017	24.5	29.6	54.1	< 0.2	1.1	69.8
0517	N	4/13/1994	6,879.70	4.30	4.29	5770	515	479	204	12	< 1	3883	108	7.25	27.8	8.5	96	< 0.001	< 0.01	< 0.01	0.67	< 0.05	18.5	< 0.1	0.72	< 0.001	< 0.1	0.068	20.9	40.6	61.5	< 0.2	4.5	81.9
0517	N	7/20/1994	6,878.60	5.10	4.36	6115	604	516	177	11.7	< 1	4308	85.9	34.2	32.9	< 1	22.9	< 0.001	< 0.01	< 0.01	0.41	< 0.05	12.3	< 0.1	0.32	< 0.001	< 0.1	0.03	24	30.5	54.5	< 0.2	< 1	69.9

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0517	N	10/4/1994	6,878.00	4.80	4.33	6218	554	551	204	12.5	< 1	4563	82.5	22.4	42.5	4.5	67.1	< 0.001	< 0.01	< 0.01	0.67	< 0.05	18.1	0.11	0.51	< 0.001	< 0.1	0.061	20	18.6	38.6	< 0.2	< 1	48
0517	N	1/4/1995	6,877.20	4.70	4.46	5507	517	465	178	11	< 1	3665	66.2	40.4	40.3	3.2	42.4	< 0.001	< 0.01	< 0.01	0.28	< 0.05	10.5	< 0.1	0.27	< 0.001	< 0.1	0.05	33	24.1	57.1	< 0.2	< 1	69.3
0517	N	4/4/1995	6,876.80	5.20	4.72	4608	514	338	143	6.5	6.5	2999	54	17.8	44.9	1.4	10.5	< 0.001	< 0.01	< 0.01	0.14	< 0.05	5.65	< 0.01	0.11	< 0.001	< 0.1	0.043	16.8	17.9	34.7	< 0.2	< 1	43.8
0517	N	7/6/1995	6,875.90	4.70	4.57	4312	500	365	142	6.7	1.8	3040	48	36.1	16.4	1.76	14.4	< 0.001	< 0.01	< 0.01	0.21	< 0.05	6.21	< 0.01	0.17	< 0.001	< 0.1	0.0684	18.4	17.8	36.2	1	3.8	69.1
0517	N	10/3/1995	6,875.10	4.60	4.39	5058	465	469	185	11	< 1	3745	12.7	41.4	7.29	4.25	47	0.004	< 0.01	< 0.01	0.16	< 0.05	3	< 0.1	< 0.05	0.007	< 0.1	0.1421	31.1	22.8	53.9	1.9	< 1	94.8
0517	N	1/3/1996	6,874.40	4.50	4.10	5807	510	530	174	10.1	< 1	4100	61.2	28.6	1.51	5.05	40	0.001	0.02	< 0.01	0.83	< 0.05	13.7	< 0.1	0.79	0.002	< 0.1	0.125	21.1	7.9	29	1.9	1.8	44.6
0517	N	4/2/1996	6,874.00	4.60	4.44	5804	481	550	170	10.5	< 1	3995	61.9	27.8	1.38	5.21	27.3	< 0.001	0.01	< 0.01	0.82	< 0.05	12.2	< 0.1	0.72	< 0.001	< 0.1	0.149	14.4	17.4	31.8	1.4	21.4	34.6
0517	N	7/7/1996	6,873.80	4.50	4.33	5635	460	485	175	10.6	< 1	3590	67	24.9	1.44	5.26	21.2	< 0.001	0.01	< 0.01	0.78	< 0.05	12.1	< 0.1	0.71	< 0.001	< 0.1	0.113	10	23.1	33.1	1.3	5.4	25.5
0517	N	10/1/1996	6,873.60	4.80	4.30	5520	477	518	182	10.5	< 1	3578	66	22.5	1.35	4.39	16.6	< 0.001	< 0.01	< 0.01	0.71	< 0.05	10.9	< 0.1	0.66	0.002	< 0.1	0.087	9.7	20.9	30.6	1.5	< 1	29.5
0517	N	1/21/1997	no data	4.50	4.73	5210	485	515	175	10.2	6.3	3585	68	21.1	1.47	4.87	15.8	0.001	< 0.01	< 0.01	0.67	< 0.05	10.5	< 0.1	0.6	< 0.001	< 0.1	0.076	10.3	17.3	27.6	< 0.2	< 1	12
0517	N	1/22/1997	6,873.50	4.50	4.73	5210	485	515	175	10.2	6.3	3585	68	21.1	1.47	4.87	15.8	0.001	< 0.01	< 0.01	0.67	< 0.05	10.5	< 0.1	0.6	< 0.001	< 0.1	0.076	10.3	17.3	27.6	< 0.2	< 1	12
0517	N	4/8/1997	6,873.30	5.10	4.69	5260	485	526	169	9.9	4	3710	69.5	18.8	1.11	4.22	11.2	< 0.001	< 0.01	< 0.01	0.62	< 0.05	9.18	< 0.1	0.56	< 0.001	< 0.1	0.077	17.5	17.5	35	< 0.2	< 1	58.5
0517	N	7/8/1997	6,872.70	5.10	4.59	5350	487	517	179	10.4	2.4	3470	71.6	20.1	2.58	4.46	14.4	< 0.001	< 0.01	< 0.01	0.64	< 0.05	10.5	< 0.1	0.51	< 0.001	< 0.1	0.082	8.5	17.4	25.9	< 0.2	< 1	13.3
0517	N	10/7/1997	6,872.60	4.50	4.35	5310	504	503	165	9.9	< 0.1	3390	74	21.4	4.08	6.08	18.2	< 0.001	< 0.01	< 0.01	0.77	< 0.05	11.3	< 0.1	0.66	< 0.001	< 0.1	0.111	9	15.7	24.7	0.9	< 1	10.5
0517	N	1/15/1998	6,872.40	4.50	4.63	5240	507	506	172	10.1	3.3	3600	64.7	20	4.63	5.1	14.4	< 0.001	< 0.01	< 0.01	0.59	< 0.05	9	< 0.1	0.54	< 0.001	< 0.1	0.0932	9.6	14.3	23.9	< 0.2	< 1	44.3
0517	N	4/7/1998	6,872.50	4.50	4.57	5250	478	486	164	9.2	2	3240	58.8	17.7	4.23	5.7	12.7	< 0.001	< 0.01	0.007	0.55	< 0.05	8.15	< 0.1	0.49	< 0.001	< 0.1	0.0901	16.3	13.1	29.4	< 0.2	6.1	19.7
0517	N	7/7/1998	6,872.40	4.80	4.45	5170	480	486	173	9.7	< 0.1	3500	61.8	18.7	4.83	5.9	13.5	< 0.001	< 0.01	0.008	0.55	< 0.05	8.64	< 0.1	0.5	< 0.001	< 0.1	0.0885	11	15.4	26.4	< 0.2	< 1	23.4
0517	N	10/6/1998	6,872.20	4.56	4.56	5170	506	505	171	10.2	1.4	3420	59.9	40.9	5.59	no data	12.2	< 0.001	< 0.01	0.009	0.54	< 0.05	7.78	< 0.1	0.44	< 0.001	< 0.1	0.0936	11	13.4	24.4	< 0.2	9.9	4.4
0517	N	1/5/1999	6,871.80	4.60	4.60	5220	433	477	158	9	2	3500	57.8	17	4.12	4.5	12.3	< 0.001	< 0.01	0.008	0.55	< 0.05	8.11	< 0.1	0.45	< 0.001	< 0.1	0.0924	10.1	10.9	21	< 0.2	28.7	28.7
0517	N	4/6/1999	6,870.90	4.50	4.72	5110	472	478	156	9.4	4	3260	62.5	15.3	4.45	3.6	12.3	< 0.001	< 0.01	0.01	0.59	< 0.05	8.2	< 0.1	0.46	< 0.001	< 0.1	0.0851	20.6	20.3	40.9	< 0.2	< 1	61.8
0517	N	7/13/1999	6,871.32	4.60	4.09	5010	392	493	149	10	< 0.1	3300	52.6	14.4	4.19	4.4	9.96	< 0.001	< 0.01	0.01	0.62	< 0.05	8	< 0.1	0.5	< 0.001	< 0.1	0.0758	9.9	10.2	20.1	< 0.2	< 1	18.8
0517	N	10/5/1999	6,869.10	4.50	4.40	4970	515	520	164	8.9	< 0.1	3510	54.7	13.7	4.42	5	11.2	< 0.001	< 0.01	0.011	0.61	< 0.05	8.82	< 0.1	0.44	0.002	< 0.1	0.0731	9.8	13.2	23	< 0.2	< 1	10
0517	N	1/4/2000	6,870.80	4.50	4.67	4830	476	476	146	9.7	3	3150	50.2	12.5	5.16	4.5	8.59	< 0.001	< 0.01	< 0.005	0.63	< 0.05	8.36	< 0.1	0.54	< 0.001	< 0.1	0.0657	8.6	12.1	20.7	< 0.2	< 1	7.2
0517	N	5/1/2000	6,871.60	4.50	4.67	4750	436	415	146	9.5	5	3000	54.6	13	3.77	5.4	11.6	< 0.001	< 0.01	0.056	0.57	< 0.05	7.71	< 0.1	0.51	< 0.001	< 0.1	0.0695	19	11	30	3.2	4.2	20.8
0517	N	7/18/2000	6,871.30	4.55	4.70	4800	461	435	149	8.56	7	2850	50.6	12.5	3.95	5.1	10.2	< 0.001	< 0.01	0.008	0.55	< 0.05	7.14	< 0.1	0.37	< 0.001	< 0.1	0.0661	9.6	13.1	22.7	1.7	< 1	26.7
0517	N	10/2/2000	6,871.55	4.54	4.78	4720	467	451	154	9.69	6	2990	48.6	11.5	3.05	3.7	9.8	0.001	< 0.01	0.006	0.51	< 0.05	6.73	< 0.1	0.4	< 0.001	< 0.1	0.0606	9.8	9.4	19.2	< 0.2	< 1	26.4
0517	N	1/15/2001	6,871.75	4.80	4.60	4640	447	396	145	9	3	3220	53.2	12	3.62	3.6	9	< 0.001	< 0.01	0.005	0.54	< 0.05	6.43	< 0.1	0.47	< 0.001	< 0.1	0.0605	12.2	8.9	21.1	< 0.2	< 1	14.5
0517	N	4/9/2001	6,871.75	4.90	4.75	5180	527	481	143	8.6	7	3870	60.5	40.4	4.15	3.7	60.2	< 0.001	0.02	0.008	0.75	< 0.05	10.7	< 0.1	0.65	< 0.001	0.4	0.218	7.8	10.6	18.4	46.5	< 1	24.2
0517	N	7/10/2001	6,871.45	4.36	4.65	4670	462	430	145	8.5	3	2900	45	9.95	2.61	7	8.9	< 0.001	< 0.01	0.005	0.52	< 0.05	5.84	< 0.1	0.46	< 0.001	< 0.1	0.064	15.7	11.4	27.1	< 0.2	< 1	9.1
0517	N	10/8/2001	6,871.45	4.50	4.60	4690	430	390	132	8.3	3.1	2600	55.1	10	2.9	3.7	7.9	< 0.001	< 0.01	0.007	0.47	< 0.05	5.26	< 0.1	0.37	< 0.001	< 0.1	0.0614	8.4	14	22.4	< 0.2	< 1	12.1
0517	N	1/9/2002	6,871.35	5.65	4.60	4620	478	416	120	10	1.2	3000	69	9.8	2.6	2.8	10.1	< 0.001	< 0.01	0.008	0.55	< 0.05	6.08	< 0.1	0.49	< 0.001	< 0.1	0.0568	11.2	15.5	26.7	< 0.2	< 1	15.1
0517	N	4/3/2002	6,871.40	4.46	4.48	4660	517	436	146	10	1	3230	56.4	10.1	2.89	6.8	11	< 0.001	< 0.01	0.007	0.57	< 0.05	6.5	< 0.1	0.5	< 0.001	< 0.1	0.0652	13.1	12.2	25.3	< 0.2	< 1	29.6
0517	N	7/15/2002	6,871.45	4.93	4.42	4710	544	466	136	8.4	< 0.1	3390	42.6	10.5	2.49	5.9	10.4	< 0.001	< 0.01	0.007	0.55	< 0.05	5.88	< 0.1	0.48	< 0.001	< 0.1	0.0647	11.2	21.8	33	< 0.2	< 1	12.5
0517	N	10/14/2002	6,871.20	4.19	4.12	4260	512	447	142	8.8	< 0.1	3250	46.6	10.8	1.09	5.3	8.9	< 0.001	< 0.01	0.006	0.56	< 0.05	6.1	< 0.1	0.5	< 0.001	< 0.1	0.066	7.6	9.5	17.1	0.5	< 1	17.6
0517	N	1/7/2003	6,870.77	4.04	4.04	4690	504	457	107	6	< 0.1	3140	34.4	10.3	2.5	5.6	10.7	< 0.001	< 0.01	0.006	0.61	< 0.05	6.58	< 0.1	0.5	< 0.001	< 0.1	0.0752	8.6	6.6	15.2	1.2	< 1	20.5
0517	N	4/8/2003	6,870.68	4.12	3.70	4720	468	395	149	11.2	< 0.1	2926	49.4	10.1	2.7	5	10.2	< 0.001	< 0.01	0.007	0.54	< 0.05	6.33	< 0.1	0.53	< 0.001	< 0.1	0.079	10.1	12.1	22.2	0.6	< 1	34.1
0517	N	7/8/2003	6,870.55	4.06	3.87	4730	476	411	147	9.8	< 0.1	2990	46.2	10.4	1.9	5.9	8.3	< 0.001	< 0.01	0.008	0.6	< 0.05	6.65	< 0.1	0.52	< 0.001	< 0.1	0.0544	7.3	10.6	17.9	1.1	< 1	9.2
0517	N	10/13/2003	6,870.44	4.22	3.89	4780	505	454	141	9.2	< 0.1	3290	48.8	10.3	1.5	4.6	8.8	< 0.001	< 0.01	0.008	0.64	< 0.05	6.55	< 0.1	0.56	< 0.001	< 0.1	0.0677	6	5.3	11.3	0.4	< 1	24
0517	N	1/6/2004	6,870.25	4.21	3.80	4820	521	456	166	20.3	< 1.0	3300	48.9	11.0 D	1.65	5.6	7.9	< 0.001	< 0.01	0.007	0.68	< 0.05	6.95	< 0.1	0.52	< 0.001	< 0.1	0.0622 D	8.2	9.6	17.8	0.5	< 1.0	12.4
0517	N	4/6/2004	6,870.23	4.26	4.15	4850	492	435	149	9.1	< 1	3090 D	47.2	10.8 D	0.72	5.1	7.3	< 0.001	< 0.01	0.006	0.71	< 0.05	7.18	< 0.1	0.61	< 0.001	< 0.1	0.0576 D	6.5	11.1	17.6	0.2	< 1	19.7
0517	N	7/13/2004	6,869.94	4.17	3.87	4720	483	423	158	9.4	< 1	3130 D	48	9.9 D	0.46	4.4	6.3	< 0.001	< 0.01	0.005	0.64	< 0.05	6.62	< 0.1	0.62	< 0.001	< 0.1	0.0526 D	10.2	10.1	20.3	0.3	< 1.0	9.3
0517	N	10/11/2004	6,870.03	4.47	4.09	4890	512 D	469 D	151	10	< 1	3330 D	48	10.6 D	0.41	3.5	5.8	< 0.001	< 0.01	< 0.005	0.57	< 0.05	6.98	< 0.1	0.58	< 0.001	< 0.1	0.0504	6.5	11.1	17.6	0.3	< 1.0	15.4
0517	N	1/10/2005	6,869.86	4.01	3.92	4940	485 D	426 D	146	9.4	< 1	3040 D	45	10.3 D	0.4	1.7	5.3	< 0.001	< 0.01	< 0.005	0.74	< 0.05	6.7	< 0.1	0.66	< 0.001	< 0.1	0.0554	4	9.2	13.2	0.3	< 1.0	22.2
0517	N	4/12/2005	6,869.62	4.39	4.07	4590	514	444	156	9.8	< 1	3370	47	9.6	0.3	4.6	5.6	< 0.001	< 0.01	0.005	0.67	< 0.05	7.38	< 0.1	0.63	< 0.001	< 0.1	0.051	13.7	11.4	25.1	< 0.2	< 1.0	9.8
0517	N	7/12/2005	6,869.32	4.46	3.93	4910	505 D	443 D	142	9.2	< 1	3270 D	42	9.7 D	0.1	6.4	4.1	< 0.001	< 0.01	0.007	0.74	< 0.05	7.39	< 0.1	0.69	< 0.001	< 0.1	0.0407	11.6	9.3	20.9	0.2	< 1.0	42.6
0517	N	10/10/2005	6,869.52	4.45	3.86	4880	502 D	467 D	146	10	< 1	3260 D	46	8.6 D	0.4	3.4	4.8	< 0.001	< 0.01	0.007	0.78	< 0.05	7.49	< 0.1	0.68	< 0.001	< 0.1	0.0447	10.3	12.2	22.5	< 0.2	< 1.0	16.7
0517	N	1/16/2006	6,869.38	4.42	4.12	4790	454 D	431 D	142	9.9	< 1	3100 D	45	11.3 D	0.3	5.3	4.4	< 0.001	< 0.01	0.007	0.7	< 0.05	7.26	< 0.1	0.69	< 0.001	< 0.1	0.0528	7.8	10.5	18.3	< 0.2	< 1.0	10.4
0517	N	4/10/2006	6,869.43	4.03	4.08	4910	482 D	446 D	152	10	< 1	3240 D	43	10.4 D	0.2	4.8	4.8	< 0.001	< 0.01	0.007	0.74	< 0.05	7.75	< 0.1	0.7	< 0.001	< 0.1	0.0466	5.9	11.8	17.7	< 0.2	< 1.0	8.5
0517	N	7/24/2006	6,869.04	4.08	3.58	4740	492 D	446 D	141	< 0.5	< 1	3250 D	43	10.2 D	0.1	5.8	4.1	< 0.001	< 0.01	0.006	0.77	< 0.05	8.14	< 0.1	0.66	< 0.001	< 0.1	0.0441	6.7	13.1	19.8	< 0.2	< 1.0	9.2
0517	N	4/18/2007	6,869.18	3.95	3.71	5100	478 D	472 D	136	10.7	<1	3520 D	44	9.7 D	<0.1	6.56	5.6	<0.001	<0.01	0.009	0.77	<0.05	8.03	<0.1	0.84	<0.001	<0.1	0.0514	7.3	18	25.3	<0.2	<1	11.1
0517	N	7/10/2007	6,869.02	3.88	3.18	4910	508 D	477 D	154	11.3	<1	3590 D	44	10.4 D	<0.1	5.64	4.7	0.02	<0.01	0.008	0.83	<0.05	8.08	<0.1	0.87	<0.001	<0.1	0.048 D	7.4	14.2	21.6	<0.2	<1	11.6
0517	N	10/8/2007	6,868.92	4.05	3.93	5130	478 D	463 D	147	11.8	<1	3390 D	47	10.9 D	0.2	6.76	4.7	<0.001	<0.01	0.007	0.8	<0.05	8.98	<0.1	0.76	<0.001	<0.1	0.0518	5.6	14.1	19.7	<0.2	1.8	11.2
0517	N	1/21/2008	6,869.25	3.8	3.9 H	5080	454 D	431 D	155	12.9	< 1	3190 D	45 D	11.8 D	0.2	6.24	5.1	0.003	< 0.01	0.009	0.79	< 0.05	8.8	< 0.1	0.84	0.001	< 0.1	0.0561	11.8	17.4	29.2	< 0.2	< 0.9	13
0517	N	4/15/2008	6,868.97	3.69	3.31	4880	488	473	145 D	11.1	< 1	3810 D	40	10.0 D	< 0.1	3.98	5.1	< 0.001	< 0.01	0.008	0.85	< 0.05	9.04	< 0.1	0.84	< 0.001	0.2	0.0525	6.6	20.3	26.9	1.3	0 U	11.3
0517	N	7/15/2008	6,868.62	4.00	3.77	5110	440	425	136 D	11	< 1	3410 D	36	10 D	< 0.1	5.92	5.8	< 0.003	< 0.01	0.01	0.75	< 0.05	8.79	< 0.1	0.8	< 0.001	< 0.1	0.0477	7	16	23	0.4	5.7 U	10.2
0517	N	10/13/2008	6,869.02	3.70	3.31	5040 H	483	460	148 D	11	< 1	3650 D	41	10	< 0.1	4.28	6.5	< 0.001	< 0.01	0.009	0.87	< 0.05	9.63	< 0.1	0.91	< 0.001	< 0.1	0.0564	5.4	14	19.4	1.1	1.8 U	12.3
0517	N	1/19/2009	6,868.49	3.68	3.23	5350 H	441	447	156	12	<1	3100 D	38	4.92	<0.1	6.2	5.7	<0.001	<0.01	0.009	0.81	<0.05	9.06	<0.1	0.84	0.002	<0.1	0.0485	8	14	22	0.6	1.4 U	15.1
0517	N	4/13/2009	6,868.84	3.7	3.13	5190	435 D	434 D	144 D	10	<1	3450 D	34	8.2 D	0.1	5.44	6.1	<0.001	<0.01	0.009	0.8	<0.05	9.09	<0.1	0.83	<0.001	<0.1	0.0558	5.1	14	19.1	0.8	0.4 U	18
0517	N	7/13/2009	6,868.49	3.65	3.23 H	5320 H	465	450	145	12	<1	3690 D	45	5.6 D	<0.1	5.08	5	<0.001	<0.01	0.009	0.81	<0.05	9.27	<0.1	0.87	<0.001	<0.1	0.0538	7.2	13	20.2	0.4 U	1.2 U	16.4
0517	N	10/12/2009	6,868.69	3.7	3.59	5320	442	437	142	12	<1	3360 D	35	10.7 D	0.1	4.72	6.1	<0.001	<0.01	0.009	0.86	<0.05	9.91	<0.1	0.88	<0.001	<0.1	0.0585	6.8	13	19.8	1.1	3.2 U	18.6

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0517	N	1/11/2010	6,868.29	3.59	3.74	5380 D	465 D	460	144 D	13	<5	3680 D	35	9.8 D	0.16	3.96	5.9	<0.001	<0.01	0.008	0.83	<0.05	9.53	<0.1	0.9	<0.001	<0.1	0.0539	6.4	16	22.4	0.9	2.1 U	15.1
0517	N	4/6/2010	6,868.44	2.78	3.42	5400 D	448 D	437	145 D	12	<5	3870 D	37	11.9 D	0.2	4.56	6.3	<0.001	<0.01	0.009	0.82	<0.05	9.25	<0.1	0.86	0.004	<0.1	0.0597	8.2	11	19.2	1.5	<2 U	13.4
0517	N	7/19/2010	6,868.09	3.7	3.1	5260 D	442	458	139	11	<5	3700 D	40 D	11.7 D	0.1	5.16	6.4	<0.001	<0.01	0.009	0.89	<0.05	10.3	<0.1	0.88	<0.001	<0.1	0.0616	10	15	25	1.1	0.6 U	14.7
0517	N	10/11/2010	6,868.24	3.72	2.97	5270 D	462	458	155	12	<5	3930 D	35 D	11.5 D	<0.1	4.16	6.8	<0.001	<0.01	0.009	0.91	<0.05	10.3	<0.1	0.9	<0.001	<0.1	0.0636	7.6	11	18.6	1.3	0.8 U	15.9
0517	N	1/5/2011	6,868.04	2.8	3.57	5270 D	442	452	148	12	<5	3770 D	44 D	13.0 D	<0.1	6.08	7	<0.001	<0.01	0.01	0.92	<0.05	10.4	<0.1	0.97	0.004	<0.1	0.0722	7.7	13	20.7	1.5	1.5	22.3
0517	N	4/6/2011	6,868.08	2.9	3.39	5580 D	456	464	151	13	<5	3930 D	43 D	10.7 D	<0.1	5.16	8.2	<0.001	<0.01	0.011	0.99	<0.05	11.1	<0.1	1.04	<0.001	<0.1	0.082	4.6	14	18.6	1.7	1.3 U	9.1
0517	N	7/18/2011	6,867.59	2.96	3.21	5240 D	454	458	151	12	<5	3720 D	42 D	10.5 D	<0.5	1.8	9.7	<0.001	<0.01	0.009	0.94	<0.05	11.1	<0.1	0.98	<0.001	<0.1	0.0932	9.5	12	21.5	1.9	<0.2 U	12.6
0517	N	10/10/2011	6,867.76	3.58	3.14	5120 D	450	459	151	12	<5	3960 D	43 D	10.5 D	<0.2	1.3	9.3	<0.001	<0.01	0.012	0.89	<0.05	10.9	<0.1	0.98	<0.001	<0.1	0.0841	6.3	12	18.3	2.4	1.3 U	13.8
0517	N	1/9/2012	6,867.49	3.67	3.07 H	5350 D	475	463	146	13	<5	3770 D	42 D	10.9 D	<0.5	3.84	10.8	<0.001	0.01	0.01	0.92	<0.05	11.2	<0.1	1.01	<0.001	<0.1	0.117	5.1	12	29.1	3	2.3	13.7
0517	N	4/9/2012	6,867.39	3.7	3.25 H	5580 D	435	479	147	12	<5	3980 D	49 D	10.8 D	<0.5	4.8	10.9	<0.01	0.01	0.011	0.98	<0.05	11.9	<0.1	1.04	<0.001	<0.1	0.107	7.3	14	35.3	4	1.7	12.4
0517	N	7/16/2012	6,867.29	3.5	3.17 H	5560	495	527	151	12	<5	3940 D	45 D	10.7 D	<0.1	4.44	11.7	<0.001	0.01	0.009	0.9	0.014	11.6	<0.1	1.02	<0.001	<0.1	0.117	10	11	32	9	1.2	41.5
0517	N	10/15/2012	6,867.14	3.56	3.09 H	5470	456	480	151 D	12	<5	3770 D	43 D	10.4 D	<1	7.52	12.9	<0.001	0.011	0.008	0.85	0.014	10.7	<0.1	1.07	<0.001	<0.1	0.124	6.6	14	20.6	7.3	1.9	7
0517	N	1/8/2013	6,867.30	3.37	2.88 H	5570	485	522	158 D	14	<5	3900 D	41 D	11.2 D	<0.2	4.32	14.5	<0.001	0.013	0.009	0.93	0.014	11.8	<0.1	1.03	<0.001	<0.1	0.159	7.7	7.2	14.9	6	1.7	7.2
0517	N	4/2/2013	6,867.20	3.41	3.03 H	5510	449	494	146	13	<5	3940 D	42 D	9 D	<0.1	6.68	14.8	<0.001	0.012	0.009	0.93	0.018	11.9	<0.1	1.04	<0.001	<0.1	0.158	6.4	14	20.4	10	0.9 U	10.2
0517	N	7/8/2013	6,866.71	3.3	3.20 H	5680	451	511	148	12	<5	4030 D	41 D	10.3 D	0.4	5.28	18.9	<0.001	0.016	0.011	1	0.018	12.2	<0.1	1.06	<0.001	<0.1	0.195	4.8	10	14.8	12.1	1.7	28.7
0517	N	10/1/2013	6,866.72	3.26	2.87 H	5380	464	511	154	12	<5	4270 D	42 D	10.0 D	<0.1	3.94	16.8	<0.001	0.012	0.008	0.97	0.023	12.5	<0.1	1.09	<0.001	<0.1	0.207	5.8	3.9	9.7	12.8	1.8	20.9
0517	N	1/7/2014	6,866.50	3.01	2.94	5620	449	500	145	11	<5	3880	40	9.2	<0.1	4.48	17.7	<0.001	0.014	0.008	0.93	0.027	12	<0.1	1.04	<0.001	<0.1	0.204	4.8	6.9	11.7	13.5	1.7	29.2
0517	N	4/7/2014	6,866.45	2.82	3.00 H	5630	452	504	152 D	12	<5	4250 D	45 D	9.6 D	<0.1	4.08	15.8	<0.001	0.012	0.01	0.93	0.022	11.8	<0.1	0.96	<0.001	<0.1	0.21	9	5.7	14.7	12.9	1.4	5.6
0517	N	7/14/2014	6,866.08	2.90	3.21 H	5570	438	490	144 D	12	<5	4170 D	40 D	9.6 D	<0.1	5.6	16.9	<0.001	0.014	0.009	0.92	0.022	12.1	<0.1	1	<0.001	<0.1	0.213	5.4	3.5	8.9	17.1	0.8 U	11.7
0517	N	10/13/2014	6,866.09	2.80	2.91 H	5760	449	523	145	12	<5	4110 D	42 D	9.2 D	<0.1	4.8	17.9	<0.001	0.015	0.01	0.94	0.016	12.4	<0.1	1.01	<0.001	<0.1	0.264	9	8.7	17.7	11.2	1.7	13.3
0517	N	1/12/2015	6,865.94	2.80	2.99 H	5840	446	521	147	12	<5	4000 D	38 D	9.0 D	<0.1	4.68	18.9	<0.001	0.015	0.012	0.93	0.023	12.5	<0.1	0.96	<0.001	<0.1	0.272	11	7.8	18.8	18.9	0.9 U	67.6
0517	N	4/13/2015	6,865.60	2.92	2.80 H	5780 H	450	532	147	12	<5	3900 D	38 D	8.3 D	<0.1	3.41	18	<0.001	0.014	0.008	0.91	0.024	11.9	<0.1	0.92	<0.001	<0.1	0.267	5.7	6.2	11.9	12.9	1.6	82.2
0517	N	7/13/2015	6,865.60	2.92	2.97 H	5740	447	519	134	17	<5	4170 D	38 D	9.8 D	<0.1	4.88	16.7	<0.001	0.015	0.01	0.86	0.017	11.7	<0.1	0.89	<0.001	<0.1	0.3	4.8	6.9	11.7	20.5	11.8	75.9
0517	N	10/12/2015	6,865.47	2.76	3.09 H	5900	449	539	143	12	<5	4110 D	40 D	8.8 D	<0.1	3	18.1	<0.001	0.015	0.01	0.85	0.022	11.9	<0.1	0.82	<0.001	<0.1	0.287	5.9	7.9	13.8	8.7	2.6	20.2
0517	N	1/11/2016	6,865.46	2.90	2.92 H	5870	439	516	143	14	<5	4140 D	39 D	8.8 D	<0.1	2.27	17.4	<0.001	0.016	0.009	0.83	0.045	11.5	<0.1	0.87	<0.001	<0.1	0.308	4.3	4.4	8.7	16	2.5	89.2
0517	N	4/11/2016	6,865.32	2.84	2.88 H	5830	472	580	160	13	<5	4250 D	37 D	8.9 D	<0.1	3.54	18.8	0.001	0.017	0.007	0.87 D	0.021	12.8	<0.1	0.94	<0.001	<0.1	0.361	7.9	7.8	15.7	11.6	1.9	92.4
0517	N	7/18/2016	6,864.94	2.80	3.11 H	5930 DH	444	551	141	12	<5	3950 D	37 D	8.6 D	<0.1	5.7	18.6	<0.001	0.016	0.005	0.82	0.052	12	<0.1	0.86	<0.001	<0.1	0.401	5.6	11	16.6	20.7	2.4	56.1
0517	N	10/10/2016	6,864.88	2.83	2.98 H	5870 H	441	565	147	13	<5	4420 D	37 D	8.2 D	<0.1	3.4	18.1	<0.001	0.018	0.007	0.88	0.02	13.2	<0.1	0.87	<0.001	<0.1	0.374	6	8.1	14.1	17.1	1.7	41.7
0517	N	1/16/2017	6,865.04	2.81	3.01 H	5970 DH	437	556	146	13	<5	4680 D	36	8 D	0.1	3.9	18.3	<0.001	0.017	0.006	0.77	0.015	11.5	<0.1	0.81	<0.001	<0.1	0.351	8.3	6.3	14.6	9	1.9	33.5
0517	N	4/10/2017	6,864.68	2.74	2.99 H	5870 D	434	528	144 D	13	<5	4310 D	35 D	7.9 D	<0.01	5.9	16.5	<0.001	0.016	0.006	0.83	0.013	12.5	<0.1	0.9	<0.001	<0.1	0.317	6.9	7.4	14.3	8.1	0.8 U	27.2
0517	N	7/17/2017	6,864.44	2.99	2.95 H	5790 D	451	560	147 D	13	<5	4220 D	35 D	8.7 D	<0.01	3.7	20.2	<0.001	0.018	0.007	0.97	0.012	14.4	<0.1	0.97	<0.001	<0.1	0.377	5.5	7.4	12.9	23.4	1.9	17.7
0517	N	10/9/2017	6,864.60	3.37	2.87 H	5670 D	437	550	140 D	13	<5	4130 DH	32 DH	8.5 D	0.01	4	18.4	<0.001	0.017	0.006	0.85	0.011	12.8	<0.1	0.88	<0.001	<0.1	0.394	5.8	7.5	13.3	15.2	0.2 U	11.5
0517	N	1/15/2018	6,864.19	3.17	3.32 H	5890 D	443	539	146 D	14	<5	4140 D	34 D	8.1 D	<0.1	4.6	19.8 D	<0.001	0.017	0.007	0.912	0.011	13.1 D	<0.001	0.94	<0.001	<0.01	0.366	6.3	11.9	18.2	7.1	4.7	13
0517	N	4/9/2018	6,864.09	3.33	3.28 H	6100 D	476 D	555	151 D	13	<5	4160 D	33 D	8.0 D	<0.01	4.5	18.8	<0.001	0.017	0.006	0.867	0.009	12.9	0.004	0.957	<0.001	<0.01	0.348	8.4	7.6	16	15.9	1.8	14.2
0517	N	7/16/2018	6,863.74	2.73	2.98 H	6070 D	405	563	160 D	11	<5	4280 D	30 D	7.0 D	<0.01	4.1	13.7	<0.02	0.015	0.007	0.787	0.023	12	<0.001	1.02	<0.001	<0.01	0.349	4.6	11.5	16.1	11.9	2	19.3
0517	N	10/8/2018	6,864.04	2.78	3.03 H	6140 D	482	584	142 D	14	<5	4590 D	34 D	7.7 D	0.01	3.7	18.0 D	<0.001	0.016	0.006	0.836	0.009	12.4	<0.001	0.863	<0.001	<0.01	0.34	4.6	14.4	19	5.3	1 U	10.2
0517	N	1/14/2019	6,863.48	2.83	3.13 H	6090 D	374	543	143	12	<5	4630 D	34 D	7.3 D	<0.01	4.1	15.6	no data	0.019	0.006	0.774	0.008	12.7	<0.001	0.935	no data	<0.01	0.341	12.2	11.7	23.9	11.1	0.4 U	14.1
0517	N	4/15/2019	6,863.48	2.85	3.19 H	6180 DH	344	436	141	12	<5	4200 D	30 D	7.1 D	0.02	3.3	17 D	0.004	0.016	0.006	0.844	0.02	12.3 D	<0.001	0.9	<0.001	<0.01	0.357	5.1	11.4	16.5	3	0.7 U	16.2
0517	N	7/23/2019	6,862.91	2.90	3.35 H	6320 DH	419	608	151	14	<5	4260 D	29 D	5.4 D	<0.01	3.9	13 D	0.002	0.016	0.004	0.871	0.036	12.8 D	<0.001	0.759	<0.001	<0.01	0.373	8.6	12.7	21.3	2.1	1	18
0517	N	10/3/2019	6,862.97	3.16	3.42 H	6190 H	453	576	151	14	<5	4270 D	31 D	6.5 D	<0.01	4.6	18 D	0.003	0.02 D	0.003	0.88 D	<0.01 D	12.9 D	<0.001	0.89 D	<0.001	<0.01	0.189	7.8	12.9	20.7	4.8	1.9	15.8
0518	N	7/23/1989	6,897.20	3.30	3.44	9675	443	764	236	35.8	0	6727	64.6	123	22	43	420	0.001	0.16	< 0.01	1.7	0.11	41	< 0.1	1.9	0.001	< 0.1	0.842	24.3	16.7	41	17.9	4.1	120
0518	N	10/11/1989	6,892.90	3.20	3.32	10260	417	770	223	46.8	0	6908	133	77.2	29	42	500	< 0.001	0.19	0.03	1.8	0.19	44	< 0.01	2.1	0.006	1	1.08	11.5	11.2	22.7	55.8	5	70.1
0518	N	1/3/1990	6,890.20	3.00	3.00	10370	440	748	228	30	< 1	6962	108	40.4	18.7	23.7	410	0.001	0.16	0.01	1.9	< 0.05	41	< 0.01	2.1	< 0.001	0.22	0.988	10.3	4.3	14.6	42	5.1	54
0518	N	4/3/1990	6,888.20	2.90	3.26	10524	431	850	223	29.2	< 1	6989	84	52	28	15.6	430	0.001	0.18	< 0.01	2.1	< 0.05	50	< 0.01	2.5	< 0.001	0.16	0.801	12	< 1	12	10.2	2.2	15
0518	N	7/10/1990	6,886.80	3.30	2.95	9505	415	768	198	22.3	< 1	6226	67	34.4	16	26.1	299	< 0.001	0.13	0.01	1.17	< 0.05	36.5	< 0.1	1.91	0.001	0.26	1.077	7.1	1.3	8.4	6.8	< 1	15
0518	N	10/9/1990	6,885.60	3.10	3.30	11417	439	900	248	27.5	< 1	7573	87.9	45.2	20.6	17.2	406	0.002	0.21	0.01	2.75	< 0.05	51	< 0.1	3.21	< 0.001	0.9	1.786	17.8	5.1	22.9	4	< 1	22
0518	N	1/4/1991	6,885.10	3.40	3.62	7402	476	168	158	33.5	< 1	4846	85.7	12.6	0.58	18.9	128	< 0.001	0.06	< 0.01	1	< 0.05	19.8	< 0.1	1.31	0.001	0.26	0.7028	6.8	5.9	12.7	6.2	< 1	15.5
0518	N	4/10/1991	6,887.30	3.80	4.11	7370	471	686	119	14.2	< 1	4597	38.3	8.8	< 0.01	16.3	62.1	< 0.001	< 0.01	< 0.01	0.7	< 0.05	11.13	< 0.1	0.8	< 0.001	0.11	0.392	10.2	7.9	18.1	1.6	1.5	12.1
0518	N	7/16/1991	6,885.60	3.70	3.64	7248	467	685	136	12.8	< 1	5539	23.8	7.6	< 0.01	19.9	64.9	< 0.001	0.05	0.02	0.96	< 0.05	16.4	< 0.1	0.94	< 0.001	< 0.1	0.304	3.9	5.9	9.8	< 0.2	4.6	4
0518	N	10/14/1991	6,883.90	3.60	3.30	7257	363	493	145	11.1	< 1	4652	41.8	7.2	< 0.01	17.5	73.2	< 0.001	0.05	0.02	0.97	< 0.05	16.8	< 0.1	0.91	< 0.001	0.12	0.43	4.5	< 1	4.5	< 0.2	< 1	5
0518	N	1/14/1992	6,884.10	3.60	3.79	7008	385	645	128	12.9	< 1	4442	66.8	9.3	< 0.01	17.5	63.1	< 0.001	0.03	0.02	1.43	< 0.05	14	< 0.1	0.92	< 0.001	0.14	0.258	12.1	5.9	18	< 0.2	1.9	12
0518	N	4/7/1992	6,885.10	3.70	3.44	7028	419	581	150	15.5	< 1	4452	32.7	6.87	< 0.1	18.5	41.2	0.003	0.03	0.03	0.86	< 0.05	18.1	< 0.1	0.66	< 0.001	< 0.1	0.268	5.8	16.7	22.5	< 0.2	< 1	5.9
0518	N	7/7/1992	6,881.60	3.40	3.07	8076	428	574	244	25.5	< 1	5279	47.8	17	< 0.1	16	161	< 0.001	< 0.01	< 0.01	1.13	< 0.05	20.8	< 0.1	1.09	0.001	0.22	0.86	5.1	2.1	7.2	< 0.2	< 1	5.6
0518	N	10/13/1992	6,879.70	3.50	2.99	8062	447	613	168	17.8	< 1	5260	48.2	17.3	< 0.1	16	123	< 0.001	< 0.01	0.02	1.17	< 0.05	20.3	< 0.1	1.06	< 0.001	0.4	1.22	6.4	6.7	13.1	16.1	< 1	6.9
0518	N	1/21/1993	6,882.50	3.70	2.97	5822	447	613	168	14.7	< 1	4456	51.6	4.6	< 0.1	16	32.5	0.001	< 0.01	< 0.01	0.42	< 0.05	11.8	< 0.1	0.93	< 0.001	< 0.1	0.189	6.3	4.9	11.2	2.2	3.7	8.5
0518	N	4/14/1993	6,883.50	4.20	3.00	5276	448	530	100	14	< 1	3993	53.7	15	< 0.1	14.5	39.1	0.001	< 0.01	< 0.01	0.93	< 0.05	13.7	< 0.1	1.05	< 0.001	< 0.1	0.252	8.9	20.5	29.4	< 2	1.9	9.7
0518	N	7/15/1993	6,879.80	3.60	3.06	5485	433	569	146	14	< 1	3940	34.1	6.4	< 0.1	17.4	51	< 0.001	< 0.01	< 0.01	0.9	< 0.05	14.4	< 0.1	0.8	< 0.001	0.15	0.17	4.5	2	6.5	< 2	< 1	4.7
0518	N	10/6/1993	6,876.00	3.70	3.03	5631	438	651	131	12.5	< 1	4358	38.2	8.3	< 0.1	14.2	68	0.003	0.053	< 0.01	0.75	< 0.05	14.9	< 0.1	0.92	< 0.001	< 0.1	0.289	5.4	2.6	8	21.2	1.2	30.5
0518	N	1/5/1994	6,880.40	3.60	2.79	6074	499	619	138	11.3	< 1	4350	36.3	7.93	0.13	< 1	65.6	< 0.001	0.05	< 0.01	0.93	< 0.05	16.8	< 0.1	0.8	< 0.001	0.1	0.331	5.5	< 1	5.5	12.1	3.1	18.6
0518	N	4/13/1994	6,881.30	3.80	3.08	5991	510	618	122	13.1	< 1	4246	32	10.8	< 0.1	16.1	56.7	0.001	0.03	< 0.01	0.77	< 0.05	12.6	< 0.1	0.8	< 0.001	0.16	0.306	5.3	9.5	14.8	< 0.2	2	19.7

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0518	N	7/21/1994	6,881.30	4.00	3.17	5944	481	609	126	13.7	< 1	4218	24.6	7.69	< 0.1	14	53.4	< 0.001	0.02	< 0.01	0.86	< 0.05	14.5	< 0.1	0.73	< 0.001	< 0.1	0.237	9.1	16.9	26	< 0.2	7.6	34.6
0518	N	10/5/1994	6,881.40	4.00	3.84	5869	463	652	138	14.5	< 1	4296	31.3	10.7	< 0.1	10	37.9	0.001	< 0.01	< 0.01	1.04	< 0.05	9.65	< 0.1	0.54	0.004	< 0.1	0.302	8.7	17.6	26.3	< 0.2	< 1	35.2
0518	N	1/5/1995	6,880.90	3.90	3.84	5872	476	623	128	15	< 1	4462	33.6	14.4	< 0.1	14.1	62.2	< 0.001	< 0.01	< 0.01	0.96	< 0.05	15	< 0.1	0.9	< 0.001	0.15	0.321	10.9	7.9	18.8	25.2	< 1	47.9
0518	N	4/5/1995	6,880.90	3.90	3.30	7021	628	718	140	14.2	< 1	5113	29.6	12.8	< 0.1	11.5	64	0.001	0.04	0.02	0.97	< 0.05	15.4	< 0.1	0.88	< 0.001	0.23	0.332	8.8	14.4	23.2	8.6	2.4	38.9
0518	N	7/6/1995	6,880.30	4.40	3.10	6818	622	595	133	12.6	< 1	4765	34.2	16.5	< 0.1	13.7	85	0.002	0.05	< 0.01	0.99	< 0.05	15.9	< 0.1	0.91	< 0.001	0.28	0.5747	9.8	6.7	16.5	17.7	1.9	38.6
0518	N	10/4/1995	6,880.20	3.60	3.08	4162	618	314	173	6.2	< 1	3064	28.7	5.22	< 0.1	16.9	< 0.1	0.002	< 0.01	< 0.01	0.14	< 0.05	0.26	< 0.1	< 0.05	0.003	< 0.1	0.053	1.5	< 1	1.5	< 0.2	< 1	4.3
0518	N	1/4/1996	6,880.10	3.20	3.11	7039	670	660	145	10.5	< 1	5245	33.4	9	< 0.1	15.3	98.5	0.001	0.05	< 0.01	1.01	< 0.05	15.5	< 0.1	0.91	< 0.001	0.16	0.472	8.6	5.1	13.7	25	4.2	17.9
0518	N	4/2/1996	6,880.20	3.40	3.50	7408	661	700	141	11.6	< 1	5180	37.3	9.2	0.13	14.7	97	< 0.001	0.05	< 0.01	1.02	< 0.05	15.4	< 0.1	0.87	< 0.001	0.13	0.587	9.4	6.4	15.8	16.2	< 1	28.3
0518	N	7/7/1996	6,879.50	3.50	3.24	5648	453	691	155	12.5	< 1	5139	42.8	13	1.2	15.6	122	< 0.001	< 0.01	< 0.01	1.14	< 0.05	17.3	< 0.1	1.08	< 0.001	0.14	0.548	7.2	7	14.2	23.2	6.2	49.2
0518	N	10/1/1996	6,879.20	3.80	3.31	7580	448	688	144	12.9	< 1	4928	35.8	8.95	0.25	13.2	100	< 0.001	0.06	< 0.01	1.06	< 0.05	15.9	< 0.1	0.99	< 0.001	< 0.1	0.42	6	< 1	6	18.6	< 1	31.3
0518	N	1/21/1997	6,879.70	4.00	3.26	7340	440	680	147	13.8	< 1	4920	34.3	9.21	2.28	13.9	100	0.002	0.06	< 0.01	1.09	< 0.05	16.2	< 0.1	1.01	< 0.001	0.19	0.356	6.8	< 1	6.8	18.6	< 1	11.7
0518	N	4/8/1997	6,878.80	3.30	3.55	7480	469	720	138	13.3	< 1	5250	38.7	8.4	1.75	12.2	104	< 0.001	0.06	< 0.01	1.06	< 0.05	17.5	< 0.1	1.02	< 0.001	0.16	0.445	6	< 1	6	< 0.2	5.6	23.9
0518	N	7/8/1997	6,878.40	3.70	3.56	7630	488	742	148	14.6	< 1	5370	41	8.29	2.46	10.6	106	< 0.001	0.06	< 0.01	1.14	< 0.05	18.5	< 0.1	0.98	< 0.001	< 0.1	0.368	8.7	< 1	8.7	16.7	< 1	18.5
0518	N	10/8/1997	6,878.40	3.00	3.43	7460	460	698	141	13.9	< 0.1	4990	39.4	9.32	2.87	6.8	110	< 0.001	0.07	< 0.01	1.28	< 0.05	18.7	< 0.1	1.17	< 0.001	< 0.1	0.367	6.6	< 1	6.6	13.1	< 1	11.9
0518	N	1/16/1998	6,878.30	3.70	3.73	7650	453	683	145	15.1	< 0.1	5000	39.4	9.54	1.89	11.8	87.3	< 0.001	0.06	< 0.01	1.19	< 0.05	17.3	< 0.1	1.16	< 0.001	< 0.1	0.3836	6.8	< 1	6.8	9	< 1	9.6
0518	N	4/7/1998	6,878.30	3.70	3.48	7600	454	702	184	13.8	< 0.1	4920	35.9	8.37	2.84	11.1	70.4	< 0.001	0.06	0.007	1.05	< 0.05	15	< 0.1	1.04	< 0.001	< 0.1	0.372	5	< 1	5	12.3	< 1	12
0518	N	7/7/1998	6,877.90	3.70	3.64	7020	446	692	137	14.4	< 0.1	4600	33.7	8.31	1.44	9.8	75.8	< 0.001	0.06	0.009	1.05	< 0.05	16.2	< 0.1	1	< 0.001	< 0.1	0.347	5.6	< 1	5.6	9.2	7	17
0518	N	10/6/1998	6,877.80	3.35	3.66	7050	466	723	144	15.9	< 0.1	4800	35.8	4.48	1.89	10	90.4	0.001	0.06	0.007	1.16	< 0.05	17.5	< 0.1	1.06	< 0.001	< 0.1	0.363	7.9	< 1	7.9	8	< 1	16.6
0518	N	1/6/1999	6,877.76	3.30	3.54	7640	482	724	150	14.2	< 0.1	5000	38.7	8.24	2.26	8.3	80.4	< 0.001	0.06	0.011	1.26	< 0.05	17.2	< 0.1	1.37	< 0.001	< 0.1	0.345	7.5	< 1	7.5	9.4	9.5	9.5
0518	N	4/6/1999	6,877.86	3.30	3.75	7380	436	699	125	14.4	< 0.1	4800	43.5	7.28	1.37	8.3	76.6	< 0.001	0.06	0.01	1.15	< 0.05	16.6	< 0.1	1.15	< 0.001	< 0.1	0.328	6.4	1.7	8.1	4.1	< 1	15.3
0518	N	7/13/1999	6,877.28	3.50	3.62	7690	464	737	129	16.1	< 0.1	5000	31.7	7.17	0.62	8.3	69.5	< 0.001	0.05	< 0.005	1.11	< 0.05	16.2	< 0.1	1.1	< 0.001	< 0.1	0.0198	3.5	< 1	3.5	7.8	< 1	14
0518	N	10/5/1999	6,877.26	3.48	3.61	7660	478	772	139	14.7	< 0.1	5300	35.4	8.36	0.98	8.3	86.5	< 0.001	0.06	0.01	1.17	< 0.05	18.4	< 0.1	1.18	< 0.001	< 0.1	0.327	6.1	4.6	10.7	7.1	< 1	13.6
0518	N	1/4/2000	6,877.36	3.30	3.58	7540	445	729	128	15.5	< 0.1	4960	37.1	7.7	1.5	7.9	55.1	< 0.001	0.05	< 0.005	1.04	< 0.05	17.1	< 0.1	1.06	0.001	< 0.1	0.306	9.1	< 1	9.1	8.5	< 1	12.3
0613	N	5/2/2000	6,884.60	3.02	3.11	13900	415	646	323	2	< 0.1	9150	177	474	22.8	91.2	666	< 0.001	0.21	0.714	1.8	< 0.05	62.6	< 0.1	1.69	< 0.001	6	1.93	10	3	13	339	< 1	19.7
0613	N	7/11/2000	6,883.70	2.96	3.16	13700	426	656	328	< 0.1	< 0.1	8770	166	445	16.8	68.6	662	< 0.001	0.22	0.028	1.64	0.23	63.6	< 0.1	1.88	< 0.001	5.8	1.98	11.9	< 1	11.9	317	< 1	46.6
0613	N	10/2/2000	6,885.00	3.03	3.08	13800	451	709	350	1.5	< 0.1	8870	175	400	18	49	694	0.001	0.21	0.03	1.56	0.28	60.1	< 0.1	1.52	< 0.001	5.08	1.82	13.5	< 1	13.5	249	< 1	67.9
0613	N	1/15/2001	6,883.50	3.10	3.08	13800	425	622	334	1	< 0.1	10400	183	423	17.2	46.4	810	< 0.001	0.23	0.028	1.77	< 0.05	61	< 0.1	1.6	< 0.001	5.4	2.08	14.6	< 1	14.6	794	< 1	44.1
0613	N	4/9/2001	6,883.65	2.96	3.16	13100	411	623	313	0.6	< 0.1	8510	174	425	18	41	738	< 0.001	0.2	0.027	1.9	< 0.05	54.8	< 0.1	1.7	< 0.001	5	1.85	11.5	1.5	13	592	< 1	40
0613	N	7/10/2001	6,883.50	2.98	3.12	13900	459	726	322	< 0.1	< 0.1	9400	147	370	16.5	96	753	< 0.001	0.23	0.028	1.63	< 0.05	54.3	< 0.1	1.49	< 0.001	4.8	1.99	10.5	< 1	10.5	556	< 1	30.3
0613	N	10/2/2001	6,883.50	3.24	3.00	13600	430	640	300	< 1	< 0.1	8400	160	392	17.3	87.5	673	< 0.001	0.18	0.038	1.74	< 0.05	59.2	< 0.1	1.54	< 0.001	3.62	1.89	13	< 1	13	672	< 1	38
0613	N	1/14/2002	6,883.45	3.12	3.00	13800	470	701	342	< 1	< 0.1	9090	172	394	16	109	670	< 0.001	0.22	0.039	1.81	< 0.05	55.3	< 0.1	1.62	< 0.001	3	1.99	13.2	3.2	16.4	810	< 1	20.2
0613	N	4/2/2002	6,883.40	2.92	3.02	13800	461	678	311	1.6	< 0.1	9810	189	389	15.4	39.7	718	< 0.001	0.21	0.038	1.95	< 0.05	63.9	< 0.1	1.79	< 0.001	3.1	1.84	15.1	< 1	15.1	575	< 1	38.5
0613	N	7/9/2002	6,883.23	2.95	3.07	13300	437	672	316	< 1	< 0.1	8810	167	359	15.5	39.7	725	< 0.001	0.07	0.026	0.62	< 0.05	69.4	< 0.1	1.15	< 0.001	1.1	2.48	19.9	< 1	19.9	509	< 1	40.3
0613	N	10/8/2002	6,883.30	2.85	3.04	11800	398	625	284	< 1	< 0.1	8490	165	357	14.2	166	592	< 0.001	0.13	0.031	1.81	< 0.05	56.5	< 0.1	1.63	< 0.001	2.3	1.79	16.6	< 1	16.6	543	< 1	52.1
0613	N	1/7/2003	6,882.69	2.96	3.02	13100	377	611	264	< 1	< 0.1	7870	158	341	12.6	137	475	< 0.001	0.13	0.031	1.66	< 0.05	49.6	< 0.1	1.63	< 0.001	2.4	1.96	17.6	< 1	17.6	568	< 1	69.9
0613	N	4/8/2003	6,882.54	2.87	3.05	13200	398	649	290	< 1	< 0.1	8020	148	341	13.8	142	473	< 0.001	0.16	0.038	1.37	< 0.05	41.9	< 0.1	1.62	< 0.001	2	1.91	12	< 1	12	588	< 1	52.4
0613	N	7/8/2003	6,882.75	2.78	2.98	12100	438	684	292	< 1	< 0.1	8910	172	327	13	134	726	< 0.001	0.17	0.03	1.71	< 0.05	53	< 0.1	1.76	< 0.001	2.2	1.51	15.4	< 1	15.4	389	< 1	29.5
0613	N	10/8/2003	6,882.97	3.11	3.04	13200	429	705	297	< 1	< 0.1	9510	175	321	12.5	138	810	< 0.001	0.18	0.032	1.86	< 0.05	44.3	< 0.1	1.74	< 0.001	2.5	1.73	6.9	< 1	6.9	400	< 1	34.3
0613	N	1/6/2004	6,882.61	2.77	3.01	13100	529	817	329	4.3	< 1.0	10900	195	323 D	12.3 D	133 D	842	< 0.001	0.16	0.029	1.77	< 0.05	49.4	< 0.1	1.58	< 0.001	2.3	1.58 D	9.4	< 1.0	9.4	440	< 1.0	28.2
0613	N	4/6/2004	6,882.66	2.94	2.99	13200	446	716	300	< 1	< 1	8950 D	166	297 D	12 D	126 D	738 D	< 0.001	0.16	0.031	1.9	< 0.05	56.8	< 0.1	1.77	0.005	2.4	1.5 D	10.9	< 1	10.9	425	< 1	36.8
0613	N	7/13/2004	6,882.67	2.79	2.84	12900	438	700	304	< 0.5	< 1	9030 D	161	279 D	11.7 D	130 D	708 D	< 0.001	0.19	0.029	1.83	< 0.05	54.1	< 0.1	1.64	< 0.001	2.5	1.43 D	12.7	< 1.0	12.7	408	< 1.0	22.6
0613	N	10/5/2004	6,882.21	2.78	2.98	12600	435 D	703 D	295	< 0.5	< 1	9210 D	159	284 D	11.6 D	148 D	687 D	< 0.001	0.18	0.058 D	1.87	< 0.05	61.4	< 0.1	1.8	< 0.001	2.5	1.41 D	9.7	< 1.0	9.7	371	< 1.0	47.4
0613	N	1/4/2005	6,882.66	2.86	2.93	13400	462 D	749 D	294	< 0.5	< 1	9310 D	162	265 D	9.7 D	102 D	650 D	< 0.001	0.19	0.034	2	< 0.05	65.2	< 0.1	1.70 D	0.001	2.7	1.52 D	12.9	< 1.0	12.9	312	< 1.0	75.7
0613	N	4/5/2005	6,881.78	2.97	2.97	13000	452	748	293	< 0.5	< 1	9100	164	289	8.2	141	630	< 0.001	0.19	0.029	1.54	< 0.05	64.8	< 0.1	1.98	< 0.001	2.2	1.51	14.1	1.4	15.5	280	< 1.0	42.3
0613	N	7/12/2005	6,882.27	3.02	3.00	13100	509 D	795 D	202	4.3	< 1	9910 D	247	265 D	11.3 D	168 D	683 D	< 0.001	0.24	0.039	2.53	< 0.05	73.8	< 0.1	2.34	< 0.001	3.5	1.82 D	10.9	< 1.0	10.9	292	< 1.0	68.5
0613	N	10/5/2005	6,882.39	3.02	3.15	13400	431 D	744 D	284	< 0.5	< 1	9040 D	156	253 D	10.7 D	136 D	712 D	< 0.001	0.21	0.036	2.38	< 0.05	62.9	< 0.1	2.21	< 0.001	3.3	1.68 D	8.2	< 1.0	8.2	254	< 1.0	48.5
0613	N	1/10/2006	6,882.16	3.01	3.25	13300	397 D	687 D	270 D	< 0.5	< 1	8690 D	149	286 D	10.6 D	99.2 D	690	< 0.001	0.21	0.034	1.73	< 0.05	59.8	< 0.1	1.67	0.005	2.6	1.6	12.4	< 1.0	12.4	370	< 1.0	39.5
0613	N	4/3/2006	6,882.14	2.80	3.44	13000	426 D	728 D	262	0.6	< 1	8520 D	150	273 D	10.3 D	111 D	679	< 0.001	0.17	0.033	1.89	< 0.05	54.5	< 0.1	1.87	0.006	2.6	1.38 D	10.7	< 1.0	10.7	405	< 1.0	28.8
0613	N	7/19/2006	6,882.19	2.94	3.06	12600	388 D	717 D	290 D	1.9 D	< 1	9170 D	173	242 D	10.4 D	108 D	710	< 0.001	0.16	0.032	1.82	0.07	54.8	< 0.1	1.87	< 0.001	2.5	0.992 D	14	< 1.0	14	327	< 1.0	52.2
0613	N	10/3/2006	6,882.14	2.87	3.06	12900	435 D	726 D	269	0.6	< 1	8790 D	138	268 D	9.5 D	118 D	511	< 0.001	0.18	0.032	2	< 0.05	58.1	< 0.1	1.81	< 0.001	2.6	1.35 D	8.3	< 1	8.3	398	< 1	36.6
0613	N	1/9/2007	6,882.04	3.00	3.02	13100	410 D	698 D	267 D	0.5	<1	8550 D	136	239 D	9 D	123	679	<0.001	0.19	0.032	2.02	<0.05	61.7	<0.1	1.84	<0.001	2.7	1.22 D	7.4	<1	7.4	467	<1	19.1
0613	N	4/10/2007	6,882.04	3.02	3.12	12900	444	756	278	2	<1	9040 D	147	250 D	9.5 D	114	611	<0.001	0.19	0.032	1.21	<0.05	54.9	<0.1	1.75	<0.001	1.6	1.27 D	7.5	<1	7.5	681	<1	46
0613	N	7/10/2007	6,882.04	2.90	3.06	13100	455 D	745 D	294	<0.5	<1	9260 D	146	253 D	9.2	121 D	688	0.02	0.16	0.032	1.88	<0.05	53.6	<0.1	1.9	<0.001	2.3	1.31	14.6	<1	14.6	448	<1	18.3
0613	N	10/8/2007	6,881.72	2.93	2.95	12700	376 D	651 D	266 D	0.8	<1	8300 D	146 D	247 D	10.6	127	641	0.001	0.16	0.029	1.79	<0.05	50.6	<0.1	1.82	<0.001	2.3	1.36	17.2	<1	17.2	706	1.6	40
0613	N	1/15/2008	6,882.40	3.03	3.4	12200	387 D	658 D	274 D	1.3	< 1	8380 D	196 D	269 D	9.1 D	144	733 D	< 0.001	0.17	0.037	1.82	< 0.05	51.7	< 0.1	1.88	< 0.001	2.3	1.21 D	15.3	1.8	17.1	750	6	52.5
0613	N	4/8/2008	6,881.94	2.84	2.99	12500	458 D	791 D	305 D	2 D	< 1	9430 D	183	251 D	9.6	97.6	500	0.002	0.2	0.036	2.11	< 0.05	62.6	< 0.1	2.05	< 0.001	2.4	1.44	7.9	0.5 U	8.4	798	0 U	53.6
0613	N	7/8/2008	6,881.79	2.80	3.05	12000	414	700	261 D	< 1	< 1	9300 D	188	264 D	7.1	98	711 D	< 0.003	0.17	0.04	1.89	< 0.05	61	< 0.1	1.83	< 0.001	2.3	1.2	13	0.98 U	13.98	674	6 U	78.7
0613	N	10/7/2008	6,881.74	2.78	3.07	12500	411	680	250 D	< 1	< 1	9300 DH	119	242 D	7.6	87.6	787	0.001	0.18	0.034	2.27	< 0.05	57.9	< 0.1	2.05	< 0.001	2.8	1.28 D	8.2	0.54 U	8.74	467	0.5 U	53.1
0613	N	1/12/2009	6,881.79	2.86	3.09	13000	402	680	270	<1	<1	8180 D	102	353 D	8.1	94.8	682 D	<0.001	0.14	0.031	1.55	<0.05	46.2	<0.1	1.54	<0.001	1.9	1.09 D	8.3	0.73 U	9.03	677	0.4 U	30.1
0613	N	4/7/2009	6,881.84	2.85	3.07	12600	407 D	674 D	271 D	<1	<1	9360 D	81	228 D	4	89.6	660 D	<0.001	0.17	0.038	1.98	<0.05	55.9 D	<0.1	1.76	<0.001	2.3	1.21 D	4.4	0.78 U	5.18	452	<1 U	52.9

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0613	N	7/7/2009	6,881.99	2.76	2.87	12500	425 D	696	259 D	<1	<1	9360 D	193	243 D	7.4	71.6	745 D	<0.001	0.18	0.036	1.58	<0.05	64.6 D	<0.1	1.68	<0.001	1.9	1.19	7.3	0.16 U	7.46	432	4.2	43.7
0613	N	10/7/2009	6,881.74	3	3.06	12400	433 D	691	262 D	<1	<1	8690 D	212	241 D	7.5	99.2	635 D	<0.001	0.19 D	0.03	1.71	<0.05	55.3 D	<0.1	1.67	0.001	2.1	1.15	14	1.2 U	15.2	324	<0.2 U	35.6
0613	N	1/5/2010	6,881.79	2.94	3.1	13200 D	416 D	671	272	<1	<5	9530 D	136	185 D	7.1	82	715 D	<0.001	0.16	0.034	1.85	<0.05	53.4	<0.1	1.79	0.002	2.3	1.08 D	12	2.6	14.6	573	0.3 U	46.2
0613	N	4/6/2010	6,881.89	2.87	3.02	12500 D	432 D	722	266 D	<1	<5	8850 D	142	222 D	6.9 D	94.4	681	<0.001	0.15	0.037	1.56	<0.05	57.4	<0.1	1.63	0.006	1.9	1.11	9	0.67 U	9.67	542	<0.3 U	61.6
0613	N	7/13/2010	6,881.79	2.84	3.14	12600 D	439 D	721	268 D	<1	<5	9210 D	131 D	230 D	6.3 D	110	684	<0.001	0.16	0.038	1.77	<0.05	57.6	<0.1	1.75	<0.001	2	1.07 D	7.8	1.2 U	9	328	0.7 U	71.7
0613	N	10/5/2010	6,881.84	2.93	3.06	12300 D	433 D	706	270 D	<1	<5	9330 D	128 D	219 D	5.3 D	85.6	646	<0.001	0.13	0.037	1.94	<0.05	52.8	<0.1	1.89	0.001	2.1	1.2	12	0.43 U	12.43	946	2.1	120
0613	N	1/11/2011	6,881.44	2.9	3.09	11900 D	425 D	706	247 D	<1	<5	9150 D	144 D	210 D	3.7 D	100	600 D	<0.001	0.16	0.034	1.98	<0.05	54.1	<0.1	1.9	<0.001	2.3	1.07 D	18	1.8	19.8	976	0.7 U	56.8
0613	N	4/11/2011	6,881.59	2.93	3.09	12300 D	424	689	269 D	<1	<5	9410 D	139 D	196 D	5.2 D	88	678 D	<0.001	0.15	0.037	1.96	<0.05	53.7	<0.1	1.73	<0.001	2.3	1.04 D	13	1.2 U	14.2	645	2.9	22.9
0613	N	7/12/2011	6,881.59	2.99	3.12	11700 D	423	706	273 D	<1	<5	9140 D	140 D	179 D	2.2 D	86.4	624	<0.001	0.17	0.034	1.9	<0.05	51.4	<0.1	1.82	0.003	2	1.02 D	5	0.39 U	5.39	942	0.7 U	77
0613	N	10/4/2011	6,881.58	3.05	3.14	11600 D	420	682	256 D	<1	<5	9300 D	135 D	208 D	5.2 D	122	582	<0.001	0.18	0.033	1.86	<0.05	53.1	<0.1	1.76	<0.001	1.9	0.942	8.9	1.2 U	10.1	710	1.9	33.1
0613	N	1/3/2012	6,881.49	2.96	3.03 H	12100 D	467	714	262	2	<5	9270 D	137 D	199 D	4.5 D	106	590	<0.001	0.18	0.036	1.92	<0.05	53.9	<0.1	1.6	<0.001	1.8	0.979	27	0.62 U	28.24	971	0.7 U	28.4
0613	N	4/3/2012	6,881.39	2.87	2.99 H	12200 D	430	639	207	<1	<5	9200 D	136 D	166 D	5.3 D	73.6	604	<0.001	0.18	0.034	1.87	<0.05	53.8	<0.1	1.9	<0.001	2	1.03	3.6	2.3 U	8.2	805	0.5 U	29
0613	N	7/10/2012	6,881.39	2.87	2.98 H	12200	422	697	249 D	<1	<5	8850 D	144 D	202 D	5.2 D	79.2	616	<0.001	0.178	0.041	1.94	0.006	52.2	<0.1	1.78	<0.001	1.9	1.04	8.6	22	52.6	788	0.6 U	13.5
0613	N	10/9/2012	6,881.34	2.88	2.97 H	11900	442	693	248 D	1	<5	8630 D	142 D	206 D	3.4 D	88.8	566 D	<0.001	0.144	0.036	1.89	0.007	51.1	<0.1	1.9	<0.001	1.8	0.989	13	2.0 U	13	690	2.4	14.5
0613	N	1/8/2013	6,881.40	2.87	2.89 H	11800	421	721	256 D	<1	<5	8670 D	128 D	207 D	4 D	102	623	<0.001	0.184	0.036	1.93	0.011	53.2	<0.1	1.89	0.002	1.8	1.18	12	0.55 U	12	755	1.9	13.3
0613	N	4/2/2013	6,881.44	2.86	2.96 H	11900	430	712	248 D	<1	<5	8950 D	127 D	197 D	4 D	97.6	604	<0.001	0.14	0.034	1.86	0.006	52.2	<0.1	1.94	<0.001	1.8	1.05	8.8	0.75 U	8.8	760	0.5 U	27.9
0613	N	7/8/2013	6,881.23	2.83	2.99 H	12000	429	707	247 D	1	<5	9040 D	128 D	243 D	3.8 D	57.2	510	<0.001	0.173	0.043	1.88	0.006	49	<0.1	1.84	<0.001	1.6	1.01	5.9	0.41 U	5.9	702	1.9	45.5
0613	N	9/30/2013	6,881.32	2.76	2.97 H	11800	435	717	256 D	1	<5	9350 D	134 D	179 D	3.6 D	69.6 H	612	<0.001	0.132	0.034	1.95	0.005	53.2	<0.1	1.98	<0.001	1.6	1.08	11	1.1	12.1	793	1 U	40.2
0613	N	1/7/2014	6,881.26	3.05	2.98	11400	432	712	243	1	<5	8690	132	171	3.4	67.6	613	<0.001	0.174	0.041	1.9	0.007	50.5	<0.1	1.86	<0.001	1.5	0.971	6.4	1.5	7.9	711	2	54.1
0613	N	4/7/2014	6,881.08	3.01	2.98 H	11800	428	708	244 D	1	<5	9230 D	168 D	175 D	3.0 D	84.8	615	<0.001	0.16	0.042	1.71	0.007	52	<0.1	1.72	<0.001	1.4	0.919	9.5	1.0 U	9.5	658	0.9 U	14.9
0613	N	7/15/2014	no data	no data	3.00 H	11300	422	693	243 D	<1	<5	9060 D	132 D	180 D	2.9 D	116	590	<0.001	0.171 D	0.047 D	1.80 D	0.004	49.7	<0.1	1.78	<0.001	1.4	0.893	7.6	0.39 U	7.6	749	1.0 U	23.2
0613	N	10/13/2014	6,881.06	3.00	2.99 H	11800	430	704	242	<1	<5	8810 D	137 D	176 D	2.8 D	66.4	560	0.002	0.165	0.041	1.79	0.026	47	<0.1	1.78	<0.001	0.9	0.902	8.5	0.75 U	8.5	698	1.5	25.5
0613	N	1/12/2015	6,881.10	3.01	3.00 H	11800	430	707	238	<1	<5	8820 D	138 D	163 D	3.3 D	71.6	583 D	<0.001	0.15	0.047	1.8	0.007	49.7	<0.1	1.8	<0.001	1.5	0.9	12	3.6	15.6	608	1.3	98
0613	N	4/13/2015	6,880.99	3.07	2.97 H	11400 H	418	705	237	1	<5	8910 D	134 D	164 D	1.2 D	77.6	581	<0.005	0.165	0.033	1.71	0.009	47.4	<0.1	1.75	<0.001	1.4	0.801	11	0.92 U	11	583	1.5	127
0613	N	7/14/2015	6,881.14	3.06	2.97 H	11200	408	720	183	7	<5	8690 D	132 D	199 D	1.3 D	57.6	447	<0.001	0.151	0.041	1.74	0.013	47.6	<0.1	1.64	<0.001	1	0.822	7.1	1.3 U	7.1	641	0.5 U	104
0613	N	10/13/2015	6,881.00	2.91	3.00 H	11500	424	706	233	<1	<5	8770 D	137 D	155 D	2.6 D	85.2	544	<0.001	0.157	0.039	1.70 D	0.004	45.1	<0.1	1.75	<0.001	1.4	0.776	8.5	-0.1 U	8.5	573	1.3 U	41.3
0613	N	1/11/2016	6,880.94	3.13	3.01 H	11100	409	618	226	3	<5	8240 D	139 D	165 D	2.4 D	92.8	557	<0.001	0.163	0.037	1.95	0.004	45.9	<0.1	1.72	<0.001	1.5	0.764	6.8	1.7	8.5	553	0.2 U	120
0613	N	4/11/2016	6,881.02	3.06	3.01 H	11400 H	450	755	259 D	1	<5	8480 D	125 D	159 D	2.3 D	121	555 D	<0.001	0.167 D	0.032	1.61 D	0.005	49.7	<0.1	1.63	<0.001	1.5	0.756	25	1.4	26.4	604	1.3 U	102
0613	N	7/18/2016	6,880.94	3.06	3.02 H	11400 DH	430	719	234	<1	<5	8980 D	128 D	154 D	2.4 D	100	550	<0.001	0.158	0.026 D	1.67 D	0.007	45.2	<0.1	1.71	<0.001	1.3	0.792	10	1.4 U	10	600	<1.3	104
0613	N	10/10/2016	6,880.94	3.01	2.98 H	11200	429	719	232 D	1	<5	8890 D	129 D	166 D	2.3 D	73	540 D	<0.001	0.175	0.041	2.09	0.006	50.3	<0.1	1.89	<0.001	1.5	0.754	12	2.9	14.9	666	0.7 U	89.5
0613	N	1/16/2017	6,881.03	3.00	2.98 H	10900 DH	423	715	233	1	<5	9900 D	121	142 D	2.5 D	60	503	<0.001	0.149	0.036	1.59	0.014	41.4	<0.1	1.58	<0.001	1	0.635	16	2.1	18.1	522	1.3	101
0613	N	4/10/2017	6,880.77	2.92	2.99 H	10300 D	411	669	222 D	2	<5	8350 D	123 D	142 D	1.8 D	54	584 D	<0.001	0.13	0.036	1.74	0.008	44.1	<0.1	1.61	<0.001	1.3	0.604	8.4	1.2 U	8.4	593	0.9 U	74.9
0613	N	7/17/2017	6,880.91	3.21	3.00 H	10700 D	431	695	229 D	1	<5	8640 D	126 D	144 D	1.87 D	68	561 D	<0.001	0.165	0.043	1.97	0.01	47.7	<0.1	1.87	<0.001	1.3	0.764	12.1	1 U	12.1	571	1.6	38.6
0613	N	10/9/2017	6,880.92	2.90	3.01 H	10600 D	416 D	678	211 D	2	<5	7730 DH	104 DH	151 D	1.90 D	61	512 D	<0.001	0.131	0.044	1.81	0.006	45.7	<0.1	1.86	<0.001	1.1	0.732	10.6	0.8 U	0	528	-4 U	36.1
0613	N	1/15/2018	6,880.89	3.10	3.02 H	11200 D	440	735	234 D	2	<5	8080 D	109 D	140 D	1.28	45	522 D	<0.001	0.153	0.046	1.9	0.006	47.7 D	0.012	1.89	<0.001	1.1	0.696	9.1	1.5	10.6	491	0.8 U	34.3
0613	N	4/9/2018	6,880.70	3.13	3.01 H	10200 D	447 D	684	230 D	2	<5	8180 D	108 D	155 D	1.54 D	56	519 D	0.001	0.14	0.044	1.78	0.006	45.7	0.011	1.82	<0.001	1.11	0.652	13	0.5 U	13	476	0.9 U	21.9
0613	N	7/16/2018	6,880.77	3.14	3.00 H	11000 D	376	684	251 D	1	<5	7920 D	105 D	135 D	1.2	51	555 D	<0.001	0.094	0.043	1.63	0.005	42.4	0.011	1.86	0.002	1.05	0.628	7.2	2.9	10.1	472	0.9 U	27.3
0613	N	10/8/2018	6,880.84	2.94	3.00 H	11100 D	427 D	724	223 D	<4	<5	8490 D	116 D	142 D	1.28	53	502 D	0.001	0.153 D	0.041	1.69	0.005	41.5	0.015	1.68	<0.001	1.01	0.633	6.5	2.8	9.3	790	1.1 U	20.8
0613	N	1/14/2019	6,881.06	3.03	3.00 H	10800 D	410	669	237	3	<5	8530 D	111 D	133 D	1.31	59	516 D	no data	0.133	0.041	1.64	0.008	39.9	0.046	1.73	no data	1.05	0.58	10	0.2 U	10.2	478	0.9	29.6
0613	N	4/15/2019	6,881.07	3.03	3.01 H	10000	423	670	204	2	<5	8600	104	135	1.27	57	510	0.007	0.15	0.039	1.66	0.007	41.1	0.016	1.8	0.021	0.91	0.591	7.6	2.2	9.8	435	0.9	18.8
0613	N	7/26/2019	6,881.05	3.08	3.01 H	11000 D	409	720	214	3	<5	7800 D	104 DH	127 D	1.45	58	531 D	0.008	0.105	0.041	1.83	0.005	46CD	0.013	1.63	0.023	0.57	0.624	9.5	0.4 U	9.9	532	0.7 U	25.5
0613	N	10/1/2019	6,881.26	2.98	2.98 H	10700 DH	432	684	225	3	<5 H	7910 D	104 DH	131 D	1.4	66	520 D	0.007	0.134	0.043	1.73	0.024	42.9 D	0.004	1.72	0.02	0.94	0.602 D	11.2	2.3	13.5	491	0.2 U	30.1
0708	N	4/29/1991	no data	4.00	4.16	6374	438	349	126	13.3	< 1	4055	54.6	17.5	26	< 1	98.7	0.034	0.105	< 0.01	0.83	< 0.05	16.6	0.2	0.89	< 0.001	< 0.1	197.1	17.5	15	32.5	< 0.2	2.9	16
0708	N	4/2/2001	6,864.20	2.82	3.20	5520	515	578	101	10.7	< 0.1	3750	31.3	1.81	< 0.1	< 1	0.61	0.004	< 0.01	< 0.005	0.33	< 0.05	6.87	< 0.1	0.26	< 0.001	< 0.1	0.007	7.4	11.7	19.1	< 0.2	< 1	9
0708	N	7/16/2001	6,863.90	2.73	3.36	5740	433	519	122	14.8	< 0.1	3630	38.4	1.58	< 0.1	< 1	0.8	0.002	< 0.01	< 0.005	0.29	< 0.05	7.23	< 0.1	0.24	< 0.001	< 0.1	0.009	8.1	13.6	21.7	< 0.2	< 1	12.5
0708	N	10/8/2001	6,864.25	2.67	3.70	5700	420	500	91.1	10.8	< 0.1	3200	33.2	1.4	< 0.1	< 1	0.82	0.006	< 0.01	< 0.005	0.23	< 0.05	5.67	< 0.1	0.18	< 0.001	< 0.1	0.0105	7.4	12	19.4	< 0.2	< 1	11.3
0708	N	1/14/2002	6,864.40	2.83	3.80	5670	520	582	119	12.6	< 0.1	3650	28.6	1.11	< 0.1	< 1	1	0.002	< 0.01	< 0.005	0.32	< 0.05	7.78	< 0.1	0.25	< 0.001	< 0.1	0.0111	8.5	14.5	23	< 0.2	< 1	7.4
0708	N	4/8/2002	6,864.30	2.82	3.29	5670	453	528	108	11.8	< 0.1	3600	33.4	1.22	< 0.1	< 1	1	0.001	< 0.01	< 0.005	0.34	< 0.05	8.16	< 0.1	0.27	< 0.001	< 0.1	0.0104	9.1	13	22.1	< 0.2	< 1	8.8
0708	N	7/16/2002	6,864.10	2.68	3.14	5760	540	610	99.5	10.2	< 0.1	4200	16.1	2.04	< 0.1	< 1	0.8	0.001	< 0.01	< 0.005	0.32	< 0.05	8.33	< 0.1	0.24	< 0.001	< 0.1	0.0117	6.5	15.2	21.7	< 0.2	< 1	8.3
0708	N	10/14/2002	6,863.93	2.68	3.23	4840	485	571	116	12.1	< 0.1	3880	25.1	2.14	< 0.1	< 1	0.9	0.002	< 0.01	< 0.005	0.29	< 0.05	7.57	< 0.1	0.24	< 0.001	< 0.1	0.0118	8.8	5.7	14.5	< 0.2	< 1	9.8
0708	N	1/13/2003	6,863.61	2.77	2.98	5740	529	632	98	9.6	< 0.1	4020	14.9	2.03	< 0.1	< 1	1	0.003	< 0.01	< 0.005	0.31	< 0.05	8.21	< 0.1	0.24	< 0.001	< 0.1	0.012	7.1	4.3	11.4	< 0.2	< 1	10.1
0708	N	4/15/2003	6,863.88	3.31	2.92	5860	460	574	113	13.5	< 0.1	3800	30	2.17	< 0.1	< 1	1	< 0.001	< 0.01	< 0.005	0.29	< 0.05	8.34	< 0.1	0.22	< 0.001	< 0.1	0.0158	9	10.3	19.3	< 0.2	< 1	13.4
0708	N	7/14/2003	6,863.48	3.78	2.99	5910	448	529	111	12.3	< 0.1	3500	22	1.65	< 0.1	< 1	1.1	0.002	< 0.01	< 0.005	0.32	< 0.05	8.58	< 0.1	0.26	< 0.001	< 0.1	0.0108	7.6	4.4	12	< 0.2	< 1	5.9
0708	N	10/15/2003	6,851.39	5.27	3.60	5570	486	597	116	12.2	< 0.1	4030	28.8	2.18	< 0.1	< 1	1.3	0.002	< 0.01	< 0.005	0.31	< 0.05	8.47	< 0.1	0.25	< 0.001	< 0.1	0.0145	6.1	6.9	13	< 0.2	< 1	12.7
0708	N	10/20/2003	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	< 1	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
0708	N	1/13/2004	6,863.13	3.85	3.01	5880	504	618	109	13.2	< 1.0	3990	27.1	2.16	< 0.10	< 1.0	1.4	0.001	< 0.01	< 0.005	0.32	< 0.05	9.26	< 0.1	0.25	< 0.001	< 0.1	0.0151 D	4.5	5.7	10.2	< 0.2	< 1.0	14.7
0708	N	4/12/2004	6,863.37	3.75	2.90	5820	452	552	113	12.4	< 1	3980	33	2.14	< 0.1	< 1	1.5	< 0.001	< 0.01	< 0.005	0.32	< 0.05	9.22	< 0.1	0.26	< 0.001	< 0.1	0.0162 D	6.2	6.5	12.7	< 0.2	< 1	9.3
0708	N	7/19/2004	6,863.06	3.99	2.87	5780	494 D	576 D	120	12.2	< 1	3800 D	29	1.81	< 0.10	< 1.0	1.7	< 0.001	< 0.01	< 0.005	0.33	< 0.05	9.07	< 0.1	0.23	< 0.001	< 0.1	0.0164 D	6.8	4.4	11.2	< 0.2	< 1.0	11.6
0708	N	10/12/2004	6,863.04	4.11	3.70	5660	442 D	562 D	115	12.5	< 1	3620 D	30	1.7	< 0.10	< 1.0	1.8	< 0.001	< 0.01	< 0.005	0.27	< 0.05	9.12	< 0.1	0.26	< 0.001	< 0.1	0.016	7.1	7.2	14.3	< 0.2	< 1.0	9.5
0708	N	1/10/2005	6,863.00	3.61	3.71	5750	463 D	563 D	112	11.9	< 1	3670 D	27	1.64	< 0.1	< 1.0	1.8	0.002	< 0.01	< 0.005	0.37	< 0.05	8.87	< 0.1	0.31	< 0.001	< 0.1	0.0178	4.8	5.8	10.6	< 0.2	< 1.0	13.4

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0708	N	4/12/2005	6,862.73	3.98	3.73	5630	484	588	124	12.5	< 1	4050	29	1.96	< 0.1	< 1.0	2.7	< 0.001	< 0.01	< 0.005	0.34	< 0.05	10.1	< 0.1	0.29	< 0.001	< 0.1	0.0217	8.7	6.3	15	< 0.2	< 1.0	10.1
0708	N	7/19/2005	6,862.34	3.63	3.55	5950	464 D	563 D	119	12	< 1	3810 D	27	1.86	< 0.1	< 1.0	2.6	0.001	< 0.01	< 0.005	0.34	< 0.05	9.63	< 0.1	0.31	< 0.001	< 0.1	0.024	6.2	5.2	11.4	< 0.2	< 1.0	8.8
0708	N	10/11/2005	6,862.36	3.94	3.62	5900	458 D	591 D	116	12.6	< 1	3960 D	31	1.84	< 0.1	< 1.0	2.6	0.001	< 0.01	< 0.005	0.35	< 0.05	10.3	< 0.1	0.33	< 0.001	< 0.1	0.0214	8.6	8.7	17.3	< 0.2	< 1.0	9.4
0708	N	1/17/2006	6,861.91	3.96	4.06	5850	439 D	573 D	110	12.4	< 1	3770 D	26	2.01	0.5	< 1.0	2.7	< 0.001	< 0.01	< 0.005	0.33	< 0.05	10.8	< 0.1	0.33	< 0.001	< 0.1	0.0267	7.9	6.7	14.6	< 0.2	< 1.0	11.6
0708	N	4/11/2006	6,861.90	3.74	3.76	5830	472 D	608 D	115	12.2	< 1	3950 D	29	1.69	< 0.1	< 1.0	3.4	0.002	< 0.01	< 0.005	0.35	< 0.05	10.7	< 0.1	0.31	< 0.001	< 0.1	0.0281	5.9	10.8	16.7	< 0.2	< 1.0	7.6
0708	N	7/25/2006	6,861.66	3.83	3.69	5670	439 D	553 D	110	11.6	< 1	3680 D	26	1.82	< 0.1	< 1.0	2.9	< 0.001	< 0.01	< 0.005	0.35	< 0.05	11.1	< 0.1	0.29	< 0.001	< 0.1	0.0221	7.1	6.4	13.5	< 0.2	< 1.0	7.7
0708	N	10/10/2006	6,861.45	3.83	3.63	5920	448 D	576 D	108	11.4	< 1	3740 D	24	1.97	< 0.1	< 0.5	2.9	0.002	< 0.01	< 0.005	0.35	< 0.05	11.2	< 0.1	0.33	< 0.001	< 0.1	0.0201	7.9	5.1	13	< 0.2	< 1	7.9
0708	N	1/17/2007	6,861.30	3.82	3.76	5960	420 D	543 D	101	11.1	<1	3570 D	24	1 D	<0.1	<1 D	2.6	0.001	<0.01	<0.005	0.29	<0.05	10.8	<0.1	0.29	<0.001	<0.1	0.0194	7.7	5.1	12.8	<0.2	<1	12
0708	N	4/16/2007	6,861.13	3.89	3.80	5900	442 D	589 D	103	9.8	<1	3910 D	27	1.1	<0.1	<0.5	2.8	<0.001	<0.01	<0.005	0.36	<0.05	11.1	<0.1	0.32	<0.001	<0.1	0.0196	6.6	5.9	12.5	<0.2	<1	8.8
0708	N	7/17/2007	6,860.73	3.77	3.04	5770	454 D	605 D	111	11.8	<1	4040 D	26	1.74	<0.1	<0.5	3.3	0.02	<0.01	<0.005	0.37	<0.05	10.1	<0.1	0.35	<0.001	<0.1	0.0217	8	7	15	<0.2	<1	8.6
0708	N	10/8/2007	6,860.48	3.78	3.49	5910	461 D	604 D	115	12.7	<1	4040 D	28	1.41	<0.1	<0.5	4.1	0.002	<0.01	<0.005	0.37	<0.05	11.4	<0.1	0.34	<0.001	<0.1	0.0226	5.6	6.9	12.5	<0.2	<1	10.4
0708	N	1/21/2008	6,860.60	3.81	3.05 H	5680	422 D	553 D	111	13.3	< 1	3630 D	37 D	1.19	0.1	< 0.5	4.2	0.003	< 0.01	< 0.005	0.37	< 0.05	11.4	< 0.1	0.37	0.002	< 0.1	0.0246	7.9	4.5	12.4	< 0.2	5	11.6
0708	N	4/15/2008	6,860.28	3.72	2.95	5610	461	594	108 D	12.4	< 1	4370 D	25	0.89	< 0.1	< 0.50	6.4	< 0.001	0.01	< 0.005	0.34 D	< 0.05	11.1	< 0.1	0.33	< 0.001	0.2	0.0321	6.5	9.2	15.7	0 U	<18 U	10.8
0708	N	7/14/2008	6,861.55	4.58	3.62	5990	413	519	100 D	10	< 1	3920 D	24	0.78	< 0.1	< 0.5	7.5	< 0.003	0.01	< 0.005	0.36	< 0.05	11.8	< 0.1	0.36	< 0.001	< 0.1	0.0311	6.4	5.2	11.6	0.1 U	8 U	9.4
0708	N	10/13/2008	6,861.50	4.28	3.58	6020	460	574	109 D	8	< 1	4090 D	24	1.4 D	< 0.1	< 0.5	6.4	< 0.001	0.01	< 0.005	0.37	< 0.05	11.7	< 0.1	0.36	< 0.001	< 0.1	0.032	7.9	4.4	12.3	<0.1 U	0.5 U	14.8
0708	N	1/19/2009	6,859.18	3.57	3	6130 H	450	594	119	13	<1	4190 D	21	0.46	<0.1	<0.5	11.3	<0.001	0.01	<0.005	0.37	<0.05	11.6	<0.1	0.37	<0.001	<0.1	0.0392	9.5	6.1	15.6	0.2	0.6 U	14.5
0708	N	4/13/2009	6,859.33	3.55	2.99	6010	425 D	547 D	115 D	12	<1	4100 D	25	0.97	<0.1	<0.50	12.6	<0.001	0.02	<0.005	0.36	<0.05	11.4	<0.1	0.39	<0.001	<0.1	0.0465	6.4	5.9	12.3	0.05 U	0.0 U	16
0708	N	7/13/2009	6,858.98	2.53	3.03	6170 H	436	562	110	13	<1	4210 D	30	0.86	<0.1	<0.50	12.3 D	<0.001	0.02	<0.005	0.42	<0.05	12.1 D	<0.1	0.42	0.001	<0.1	0.0426	10	1.4	11.4	<0.08 U	0.7 U	16.5
0708	N	10/12/2009	6,859.08	3.58	3.74	4880	420 D	563	112 D	13	<1	3770 D	25	1.6	0.2	<0.50	11.6	<0.001	0.02	<0.005	0.44	<0.05	12.5	<0.1	0.45	<0.001	<0.1	0.0423	9.1	7.4	16.5	0.04 U	1.9 U	18.3
0708	N	1/11/2010	6,858.48	3.41	3.57	5990 D	472 D	559	114	14	<5	4280 D	26	1.74	0.13	<0.50	21.3	<0.001	0.02	<0.005	0.41	<0.05	11.5	<0.1	0.45	<0.001	<0.1	0.0646	6.7	7.7	14.4	<0.01 U	1.6 U	15.1
0708	N	4/12/2010	6,858.53	3.77	3.26	6060 D	464	534	119	7	<5	4260 D	31	2.68	0.1	<0.50	29.3	0.003	0.03	<0.005	0.43	<0.05	11.4	<0.1	0.49	0.007	<0.1	0.0921	9.7	5.3	15	0.1 U	2.0 U	19.1
0708	N	7/19/2010	6,858.18	3.58	3.09	6110 D	434	580	119	13	<5	4240 D	27 D	3.14	0.1	<0.50	19	<0.001	0.02	<0.005	0.51	<0.05	13	<0.1	0.54	<0.001	<0.1	0.0558	11	5.1	16.1	0.03 U	2.5 U	14.5
0708	N	10/11/2010	6,858.38	3.57	2.95	6090 D	434	566	124	14	<5	4110 D	22 D	2.86	<0.1	<0.50	24.4	<0.001	0.02	<0.005	0.47	<0.05	12	<0.1	0.52	<0.001	<0.1	0.0706	8.8	4.2	13	0.3 U	<0.05 U	15.5
0708	N	1/10/2011	6,857.80	3.54	3.14	6010 D	437	556	115	14	<5	4320 D	30 D	1.15	<0.1	<0.50	20.9	<0.001	0.02	<0.005	0.54	<0.05	12.9	<0.1	0.63	0.002	<0.1	0.0708	11	5.7	16.7	<0.5 U	1.2 U	17.7
0708	N	4/11/2011	6,857.63	3.38	3.01	5970 DH	444	532	121	15	<5	4410 D	29 D	2.02	<0.1	<0.50	24.2	<0.001	0.03	<0.005	0.52	<0.05	12.8	<0.1	0.59	0.002	<0.1	0.0901	10	5.2	15.2	<1 U	3.1	9.7
0708	N	7/18/2011	6,857.43	3.6	3.11	5800 D	432	552	122	14	<5	4570 D	28 D	1.3 D	<0.5	<0.50	27	<0.001	0.03	<0.005	0.56	<0.05	12.9	<0.1	0.67	<0.001	<0.1	0.0798	9.2	4.2	13.4	0.8 U	0.02 U	10.8
0708	N	10/10/2011	6,857.42	3.54	3.14	5910 D	427	578	124	14	<5	4700 D	30 D	1.0 D	<0.5	<0.50	35	<0.001	0.04	<0.005	0.55	<0.05	13	<0.1	0.67	<0.001	<0.1	0.0863	7.9	4	11.9	0.6 U	<0.1 U	12.4
0708	N	1/9/2012	6,857.08	3.61	2.98 H	6380 D	455	543	120	15	<5	4640 D	30 D	1.4 D	<0.5	<0.50	26.4	<0.001	0.03	<0.005	0.59	<0.05	13.2	<0.1	0.66	<0.001	<0.1	0.089	6.8	5.6	18	0.5 U	1.6	13
0708	N	4/9/2012	6,856.83	3.52	3.03 H	6420 D	419	579	117	13	<5	4530 D	51 D	1.6	<0.5	<0.50	34.6	<0.01	0.04	<0.005	0.54	<0.05	12	<0.1	0.72	<0.001	<0.1	0.0864	9.8	4.7	19.2	1.2	1.5	13.7
0708	N	7/16/2012	6,856.63	3.56	2.89 H	6250	446	602	130	15	<5	4320 D	30 D	1.44	<0.1	<0.50	34.4	<0.001	0.037	<0.005	0.6	0.004	13	<0.1	0.69	<0.001	<0.1	0.0958	8.8	4.9	18.6	0.2 U	1.2	29.8
0708	N	10/15/2012	6,856.43	3.54	2.91 H	6270	460	604	130 D	15	<5	4500 D	30 D	1.3 D	<1	<0.50	36.7	<0.001	0.043	<0.005	0.6	0.004	13.8	<0.1	0.82	<0.001	<0.1	0.108	7.6	6	13.6	0.3 U	1.2	11.2
0708	N	1/15/2013	6,856.34	3.35	2.96 H	6200	469	608	128 D	15	<5	4500 D	30 D	1.33	<0.1	<0.50	46.6	<0.001	0.046	<0.005	0.58	0.003	13.4	<0.1	0.72	<0.001	<0.1	0.122	10	4.8	14.8	0.7 U	0.8 U	9.4
0708	N	4/8/2013	6,856.55	3.62	3.02 H	6590	444	602	129	15	<5	4480 D	31 D	1.47	<0.1	<0.50	37.3	<0.001	0.042	<0.005	0.58	0.004	13.7	<0.1	0.75	<0.001	<0.1	0.112	9.2	3.7	12.9	-0.02 U	0.6 U	15.3
0708	N	7/9/2013	6,855.75	3.22	2.96 H	6520	434	547	123	15	<5	4480 D	28 D	1.83	0.3	<0.50	51.3	<0.001	0.055	<0.005	0.62	0.003	13.9	<0.1	0.74	<0.001	<0.1	0.131	9.4	5.4	14.8	0.3 U	0.7 U	21.8
0708	N	10/1/2013	6,855.77	3.53	2.84 H	5850	436	604	125	14	<5	4580 D	31 D	1.41	<0.1	<0.50	69.8	<0.001	0.044	<0.005	0.58	<0.001	12.6	<0.1	0.74	<0.001	<0.1	0.186	6.2	3.5	9.7	1.0 U	0.7 U	14.5
0708	N	1/13/2014	6,855.38	3.46	2.85	6260	453	558	124	14	<5	4370	32	1.47	<0.1	<0.50	50.3	<0.001	0.053	<0.005	0.56	0.002	13.2	<0.1	0.69	<0.001	<0.1	0.132	11	4.4	15.4	0.2 U	1.2	14.3
0708	N	4/7/2014	6,855.26	3.52	3.01 H	6310	446	579	127 D	14	<5	4610 D	32 D	1.29	0.6 D	<0.50	35.3	<0.001	0.048	<0.005	0.58	0.007	14	<0.1	0.65	<0.001	<0.1	0.106	9.1	5.4	14.5	0.2 U	1.9	10.7
0708	N	7/15/2014	6,854.94	3.52	3.15 H	6350	421	564	122 D	7	<5	4530 D	29 D	1.41	0.1	<0.50	54.6	<0.001	0.057	<0.005	0.54	0.004	13.2	<0.1	0.66	<0.001	<0.1	0.132	6.9	3.1	10	0.4 U	1.8	10.3
0708	N	10/13/2014	6,854.89	3.51	2.93 H	6240	432	538	116	1	<5	4430 D	31 D	1.48	<0.1	<0.50	49.5	0.002	0.058	<0.005	0.55	0.003	13.2	<0.1	0.65	<0.001	<0.1	0.118	8.3	5.5	13.8	0.7 U	1.3	11.7
0708	N	1/12/2015	6,854.68	3.44	2.95 H	6310	439	581	120	4	<5	4370 D	29 D	1.26	<0.1	<0.50	52.7	<0.001	0.06	<0.005	0.56	0.004	13.6	<0.1	0.63	<0.001	<0.1	0.135	10	4.8	14.8	0.4 U	0.5 U	35.1
0708	N	4/13/2015	6,854.55	2.84	3.05 H	6470	425	546	117	2	<5	4710 D	30	1.44	<0.1	<0.50	64.1	<0.001	0.06	<0.005	0.5	0.002	12.4	<0.1	0.61	<0.001	<0.1	0.155	6.8	4.5	11.3	0.4 U	1 U	44.9
0708	N	7/14/2015	6,854.31	2.95	2.95 H	6190	422	561	96	10	<5	4420 D	31 D	1.47	<0.1	<0.50	57.6	<0.001	0.061	<0.005	0.52	0.002	12.7	<0.1	0.58	<0.001	<0.1	0.153	6.6	2.9	9.5	0.7 U	0.2 U	34.9
0708	N	10/13/2015	6,853.92	3.70	3.50 H	6660	432	615	123	13	<5	4670 D	31 D	0.99	<0.1	<0.50	40.9	<0.001	0.058	<0.005	0.49	0.007	13.5	<0.1	0.58	<0.001	<0.1	0.11	8.8	4.7	13.5	0.6	2.1	22
0708	N	1/12/2016	6,853.78	3.76	3.72 H	6580	491	598	122	20	<5	4550 D	34 D	0.9 D	<0.1	<0.50	33.6	<0.001	0.068	<0.005	0.5	0.012	12.9	0.1	0.59	<0.001	<0.1	0.117	9.5	3.3	12.8	0.6 U	1.6	53.7
0708	N	4/12/2016	6,853.85	3.78	3.76 H	6720	443	617	122	14	<5	4540 D	29 D	0.87	<0.1	<0.50	45.7	<0.001	0.068	<0.005	0.49 D	0.009	14	<0.1	0.61	<0.001	<0.1	0.118	11	1.5	12.5	1.4	0.8 U	60.2
0708	N	7/18/2016	6,853.51	3.70	3.60 H	6540 DH	430	594	120	13	<5	4590 D	29 D	0.9 D	<0.1	<0.50	45.5	0.001	0.065	<0.005	0.47	0.009	12.9	<0.1	0.55	<0.001	<0.1	0.122	7.8	4.5	12.3	0.4	0.6 U	36.3
0708	N	10/10/2016	6,853.42	3.73	2.95 H	6220 H	433	603	120	13	<5	4700 D	29 D	0.8 D	<0.1	<0.50	45.9	<0.001	0.075	<0.005	0.52	0.024	14.3	<0.1	0.59	<0.001	<0.1	0.126	8.8	3.1	11.9	0.2 U	1.2	37.5
0708	N	1/16/2017	6,853.48	3.75	3.58 H	6500 DH	432	591	116	12	<5	4720 D	29 D	0.8 D	0.05	<0.50	43.3	<0.001	0.066	<0.005	0.41	0.008	12.4	<0.1	0.47	<0.001	<0.1	0.123	10	3.1	13.1	1.4 U	1.3	32.7
0708	N	4/10/2017	6,853.06	3.59	2.92 H	6110 D	428	578	122	13	<5	4480 D	29 D	0.82	<0.01	<0.50	39.1	<0.001	0.064	<0.005	0.48	0.006	13.5	<0.1	0.59	<0.001	<0.1	0.121	11	4.1	15.1	0.9	0.8 U	26.5
0708	N	7/17/2017	6,852.92	3.83	3.01 H	6260 D	432	577	117 D	12	<5	4530 D	28 D	0.81	<0.01	<0.50	47.6	<0.001	0.074	<0.005	0.54	0.007	14.6	<0.1	0.6	<0.001	<0.1	0.137	8.3	2.8	11.1	0.4 U	2.1	15.5
0708	N	10/9/2017	6,852.96	3.78	3.31 H	6410 D	426	573	115 D	13	<5	4450 DH	26 DH	0.87	0.01	<0.50	42.9	0.001	0.069	<0.005	0.48	0.008	13.5	<0.1	0.56	<0.001	<0.1	0.148	8.6	2.9	11.5	0.2 U	-4 U	16.2
0708	N	1/15/2018	6,852.60	3.67	3.56 H	6640 D	448	614	126 D	13	<5	4560 D	25 D	1.06	<0.1	<0.50	44.4 D	<0.001	0.071	<0.001	0.528	0.008	13.9 D	0.029	0.578	<0.001	<0.01	0.147	7.9	5.1	13	0.9	0.9 U	15.1
0708	N	4/9/2018	6,852.43	3.85	3.11 H	6450 D	467 D	593	126 D	13	<5	4450 D	25 D	0.84	<0.01	<0.50	40.3	0.001	0.066	<0.001	0.504	0.008	13.6	0.006	0.584	<0.001	<0.01	0.137	10.8	4.3	15.1	0.7 U	1.2 U	14.3
0708	N	7/16/2018	6,852.23	3.70	3.46 H	6360 D	389	572	133 D	10	<5	4290 D	25 D	0.8	<0.01	<0.50	32.4	0.001	0.056	<0.001	0.478	0.011	12.9	0.131	0.569	0.002	<0.01	0.128	7.8	4.6	12.4	0.1 U	2.2	19
0708	N	10/8/2018	6,852.51	3.08	3.73 H	6440 D	434	566	111 D	12	<5	4490 D	26 D	0.98	<0.01	<0.50	36.3	<0.001	0.062	<0.001	0.502	0.006	13	0.01	0.55	<0.001	<0.01	0.128	5.9	4.7	10.6	-0.06 U	0.9 U	14.1
0708	N	1/14/2019	6,852.10	3.76	3.17 H	6340 D	424	546	113 D	13	<5	4630 D	27 D	0.81	<0.01	<0.50 J	42.1 D	no data	0.065	<0.001	0.463	0.01	11.7	0.144	0.546	no data	<0.01	0.121	9.2	1.7	10.9	0.4 U	1.1	11.8
0708	N	4/15/2019	6,851.92	3.75	3 H	6270	453	507	114	13	<5	4820	26	0.78	<0.01	<0.50	40	0.004	0.05	<0.001	0.492	0.007	12.8	0.011	0.53	<0.001	<0.01	0.116	6.9	5.4	12.3	0.7	1	12.5
0708	N	7/23/2019	6,851.48	3.75	3.45 H	6420 DH	423	588	118	14	<5	4260 D	25 D	0.7	0.03	<0.50 H	55 D	0.018	0.057	<0.001	0.518	0.01	19.6 D	0.051	0.528	<0.001	<0.01	0.108	6.5	3.3	9.8	0.9	1	11.3
0708	N	10/1/2019	6,851.74	3.75	3.32 H	6310 DH	441	568	123	14	<5 H	4280 D	25 D	0.75	<0.01	<0.50	37.2 D	0.002	0.058	<0.001	0.482	0.01	13.1 D	0.007	0.514	<0.001	<0.01	0.104	7.7	3.3	11	0.5	1.4	18
0711	N	4/29/1991	no data	4.20	4.30	5747	393	377	114	9.3	< 1	3647	49.3	8	< 0.01	no data	75.6	0.196	0.098	< 0.01	0.82	< 0.05	11.7	10.49	1.03	< 0.001	< 0.1	0.3815	21	20.8	41.8	< 0.2	< 1	20

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0711	N	5/1/2000	6,863.55	4.80	5.61	5410	489	522	100	11.1	10	3380	14.2	0.57	< 0.1	< 1	1.4	0.039	< 0.01	0.02	0.41	< 0.05	8.42	0.15	0.38	< 0.001	< 0.1	0.0645	13.7	12.9	26.6	< 0.2	< 1	15.9
0711	N	5/1/2000	no data	4.84	5.66	5480	458	494	96.7	10.7	9	3220	15.4	0.56	< 0.1	< 1	1.5	0.039	< 0.01	0.016	0.42	< 0.05	8.43	0.16	0.4	< 0.001	< 0.1	0.0655	12.6	14.8	27.4	< 0.2	< 1	14.4
0711	N	7/10/2000	6,863.50	3.06	3.98	5400	518	542	101	10.9	< 0.1	3490	20	0.58	< 0.1	< 1	1.51	0.032	< 0.01	< 0.005	0.42	< 0.05	8.39	0.11	0.35	< 0.001	< 0.1	0.0613	9.6	18.6	28.2	< 0.2	< 1	14.2
0711	Dup	7/10/2000	no data	4.88	5.31	5440	513	537	101	10.9	9	3510	19.8	0.59	< 0.1	< 1	1.47	0.032	< 0.01	< 0.005	0.43	< 0.05	8.29	0.11	0.35	< 0.001	< 0.1	0.0595	9.8	16.3	26.1	< 0.2	< 1	14.5
0711	N	10/2/2000	6,863.65	2.88	4.13	5310	503	556	100	12.6	< 0.1	3990	17.9	0.45	< 0.1	< 1	1.33	0.041	< 0.01	< 0.005	0.34	< 0.05	7.44	< 0.1	0.32	< 0.001	< 0.1	0.053	9.6	20.9	30.5	< 0.2	< 1	19.3
0711	Dup	10/2/2000	no data	4.81	5.36	5310	503	555	104	12.9	11	3970	15.7	0.39	< 0.1	< 1	1.33	0.042	< 0.01	< 0.005	0.36	< 0.05	7.93	< 0.1	0.34	< 0.001	< 0.1	0.05	9	19.7	28.7	< 0.2	< 1	22.9
0711	N	1/15/2001	6,863.85	2.86	3.57	5260	496	495	93.7	11.1	< 0.1	3900	23.7	0.59	< 0.1	< 1	1.4	0.036	< 0.01	< 0.005	0.39	< 0.05	8	< 0.1	0.34	< 0.001	< 0.1	0.0568	10.3	19.4	29.7	< 0.2	< 1	13.2
0711	Dup	1/15/2001	no data	4.82	5.31	5270	501	501	93	11.2	10	3860	23.3	0.6	< 0.1	< 1	1.4	0.038	0.01	< 0.005	0.4	< 0.05	7.65	0.1	0.38	< 0.001	< 0.1	0.049	10.4	19.9	30.3	< 0.2	< 1	11.8
0711	N	4/2/2001	6,863.85	2.92	3.10	5310	560	572	94.9	10.4	< 0.1	3560	19.1	0.99	< 0.1	< 1	1.4	0.035	< 0.01	< 0.005	0.4	< 0.05	6.98	< 0.1	0.39	< 0.001	< 0.1	0.056	8.7	16.9	25.6	< 0.2	< 1	12.4
0711	Dup	4/2/2001	no data	4.46	3.77	5370	557	569	92.7	10.3	< 0.1	3640	20.1	0.83	0.11	< 1	1.4	0.034	< 0.01	< 0.005	0.41	< 0.05	7.12	0.1	0.43	< 0.001	< 0.1	0.054	8.1	12.6	20.7	< 0.2	< 1	10.9
0711	N	7/11/2001	6,863.50	2.86	3.65	5410	541	576	106	11.1	< 0.1	3580	30.4	0.8	< 0.1	< 1	1.5	0.03	0.01	< 0.005	0.39	< 0.05	7.57	< 0.1	0.37	< 0.001	< 0.1	0.057	12.2	19.1	31.3	< 0.2	< 1	12.7
0711	Dup	7/11/2001	no data	4.53	5.33	5450	539	573	104	11	8	3520	30.2	0.83	< 0.1	< 1	1.3	0.032	< 0.01	< 0.005	0.36	< 0.05	6.75	< 0.1	0.34	< 0.001	< 0.1	0.051	13.6	19.1	32.7	< 0.2	< 1	11.9
0711	N	10/8/2001	6,863.65	2.88	3.40	5440	450	480	80.8	10.2	1	3100	27	0.7	< 0.1	< 1	1.08	0.033	< 0.01	< 0.005	0.33	< 0.05	5.91	< 0.1	0.29	< 0.001	< 0.1	0.0534	8.7	17	25.7	< 0.2	< 1	12.1
0711	Dup	10/8/2001	no data	4.48	5.00	5410	450	480	84.4	10.5	7.9	3100	26.7	0.71	< 0.1	< 1	1.09	0.031	< 0.01	< 0.005	0.34	< 0.05	6.15	< 0.1	0.32	< 0.001	< 0.1	0.0483	8.7	17	25.7	< 0.2	< 1	11.1
0711	N	1/15/2002	6,863.75	2.89	3.70	5380	547	551	95.2	12.1	< 0.1	3460	21	0.54	< 0.1	< 1	1.4	0.037	< 0.01	< 0.005	0.44	< 0.05	8.13	0.14	0.42	< 0.001	< 0.1	0.051	10	26.1	36.1	< 0.2	< 1	10.6
0711	Dup	1/15/2002	no data	4.36	5.20	5360	552	555	92.9	12	8.54	3460	20.2	0.55	< 0.1	< 1	1.3	0.041	< 0.01	< 0.005	0.44	< 0.05	8.03	0.2	0.41	< 0.001	< 0.1	0.0469	9.1	23.8	32.9	< 0.2	< 1	12.1
0711	N	4/8/2002	6,863.55	2.85	3.23	5340	482	500	97.2	11.2	< 0.1	3360	21.9	0.61	1	< 1	1.3	0.028	< 0.01	< 0.005	0.47	< 0.05	8.23	0.1	0.43	< 0.001	< 0.1	0.0463	11.4	23.6	35	< 0.2	< 1	14.1
0711	Dup	4/8/2002	no data	4.73	5.22	5360	482	499	95.4	11.2	4.9	3340	21	0.65	1.46	< 1	1.3	0.03	< 0.01	< 0.005	0.46	< 0.05	8.31	0.1	0.43	< 0.001	< 0.1	0.0442	12.1	23.3	35.4	< 0.2	< 1	13.9
0711	N	7/16/2002	6,863.46	2.87	3.10	5400	569	580	89.6	10.3	< 0.1	3990	11.3	1.26	< 0.1	< 1	1.4	0.023	< 0.01	< 0.005	0.38	< 0.05	6.94	< 0.1	0.35	< 0.001	< 0.1	0.0462	9.9	32.5	42.4	< 0.2	< 1	12.6
0711	Dup	7/16/2002	no data	4.35	4.78	5450	570	580	89.4	9.7	7.3	3990	10.1	1.37	< 0.1	< 1	1.2	0.029	< 0.01	< 0.005	0.36	< 0.05	6.64	0.1	0.32	< 0.001	< 0.1	0.0421	10	26.2	36.2	< 0.2	< 1	10.8
0711	N	10/14/2002	6,863.49	2.86	3.01	4720	516	543	104	11	< 0.1	3730	16.4	1.24	< 0.1	< 1	1	0.027	< 0.01	< 0.005	0.41	< 0.05	7.73	< 0.1	0.39	< 0.001	< 0.1	0.0454	8.9	14.2	23.1	< 0.2	< 1	14.4
0711	Dup	10/14/2002	no data	4.47	5.32	5130	579	606	114	12.3	7.9	4170	23.8	1.39	< 0.1	< 1	1.1	0.031	< 0.01	< 0.005	0.43	< 0.05	8.46	0.1	0.41	< 0.001	< 0.1	0.0494	7.8	13.1	20.9	< 0.2	< 1	10.6
0711	N	1/13/2003	6,863.10	2.96	3.00	5300	509	558	72.7	8.4	< 0.1	3300	7.9	1.4	< 0.1	< 1	1.1	0.027	< 0.01	< 0.005	0.44	< 0.05	7.5	0.1	0.36	< 0.001	< 0.1	0.045	8.8	7.4	16.2	< 0.2	< 1	10.4
0711	Dup	1/13/2003	no data	no data	4.98	5390	495	541	90.6	9.8	4.9	3410	10.6	1.32	< 0.1	< 1	1	0.029	< 0.01	< 0.005	0.44	< 0.05	7.58	0.1	0.35	< 0.001	< 0.1	0.0434	10.1	5.6	15.7	< 0.2	< 1	13
0711	N	4/15/2003	6,863.46	4.43	2.85	5430	482	532	110	13.8	< 0.1	3540	17.5	1.4	0.2	< 1	1	0.025	< 0.01	< 0.005	0.48	< 0.05	8.56	0.1	0.42	< 0.001	< 0.1	0.042	11.2	12.9	24.1	< 0.2	< 1	18
0711	Dup	4/15/2003	no data	no data	4.86	5460	494	544	105	13.1	3	3620	20.4	1.44	< 0.1	< 1	1.1	0.026	< 0.01	< 0.005	0.42	< 0.05	7.98	0.1	0.37	< 0.001	< 0.1	0.0433	9.7	15.8	25.5	< 0.2	< 1	20.9
0711	N	7/14/2003	6,863.13	4.44	3.00	5450	496	515	99.2	12	< 0.1	3380	20.6	1.08	0.2	< 1	0.9	0.019	< 0.01	< 0.005	0.43	< 0.05	7.85	< 0.1	0.35	< 0.001	< 0.1	0.0349	9.2	5.4	14.6	< 0.2	< 1	6.5
0711	Dup	7/14/2003	no data	no data	4.30	5490	493	509	98.6	11.8	3	3370	18	1.1	< 0.1	< 1	0.9	0.023	< 0.01	< 0.005	0.43	< 0.05	7.72	< 0.1	0.36	< 0.001	< 0.1	0.0335	8.8	11.6	20.4	< 0.2	< 1	7.4
0711	N	10/14/2003	6,863.08	4.73	3.07	5370	519	556	100	11	< 0.1	3750	23.1	1.43	< 0.1	< 1	1	0.019	< 0.01	< 0.005	0.44	< 0.05	7.58	< 0.1	0.38	< 0.001	< 0.1	0.0433	6.8	3.6	10.4	< 0.2	< 1	17.4
0711	Dup	10/14/2003	no data	no data	4.38	5430	524	561	99	11	4	3810	19.7	1.46	< 0.1	< 1	1	0.032	< 0.01	< 0.005	0.44	< 0.05	7.72	< 0.1	0.4	< 0.001	< 0.1	0.0411	6.1	3.7	9.8	< 0.2	< 1	14.6
0711	N	1/13/2004	6,862.83	4.55	2.91	5390	521	557	92.6	12.9	< 1.0	3630	18.9	1.4	< 0.10	< 1.0	0.9	0.023	< 0.01	< 0.005	0.43	< 0.05	7.87	0.1	0.35	< 0.001	< 0.1	0.0394 D	8.2	14.5	22.7	< 0.2	< 1.0	16.7
0711	Dup	1/13/2004	no data	no data	4.85	5380	525	561	94.3	12.6	3.4	3630	20.4	1.42	< 0.10	< 1.0	0.9	0.022	< 0.01	< 0.005	0.43	< 0.05	7.85	0.1	0.38	< 0.001	< 0.1	0.0361 D	9	14.4	23.4	< 0.2	< 1.0	16.6
0711	N	4/13/2004	6,862.97	4.46	2.94	5440	481	511	97	11.5	< 1	3620	21.2	1.29	< 0.1	< 1	0.9	0.021	0.01	< 0.005	0.43	< 0.05	7.62	0.1	0.38	< 0.001	< 0.1	0.0377 D	6.9	11.3	18.2	< 0.2	< 1	9.8
0711	Dup	4/13/2004	no data	no data	4.69	5470	480	509	90.5	11.4	3	3700	21	1.35	< 0.1	< 1	0.8	0.033	0.03	< 0.005	0.43	< 0.05	7.74	0.1	0.38	< 0.001	< 0.1	0.0344 D	6.7	18	24.7	< 0.2	< 1	9.3
0711	N	7/20/2004	6,862.93	4.66	2.78	5290	525 D	529 D	105	10.8	< 1	3530 D	18	1.1	< 0.10	< 1.0	1	0.021	< 0.01	< 0.005	0.44	< 0.05	7.48	< 0.1	0.35	< 0.001	< 0.1	0.0368 D	6.5	14.4	20.9	< 0.2	< 1.0	14.7
0711	Dup	7/20/2004	no data	no data	4.48	5480	530 D	532 D	105	10.8	< 1	3580 D	18	1.18	< 0.10	< 1.0	0.9	0.032	< 0.01	< 0.005	0.43	< 0.05	7.45	< 0.1	0.34	< 0.001	< 0.1	0.0356 D	6.6	12.3	18.9	< 0.2	< 1.0	16.6
0711	N	10/12/2004	6,862.94	4.71	3.64	5370	491 D	533 D	93.7	10.9	< 1	3450 D	19	0.93	< 0.10	< 1.0	0.9	0.021	< 0.01	< 0.005	0.37	< 0.05	6.79	< 0.1	0.34	< 0.001	< 0.1	0.0339	7.3	12.2	19.5	< 0.2	< 1.0	12.7
0711	Dup	10/12/2004	no data	no data	4.88	5430	491 D	530 D	101	11.8	6	3460 D	20	0.98	< 0.10	< 1.0	0.9	0.023	< 0.01	< 0.005	0.37	< 0.05	7.35	< 0.1	0.35	< 0.001	< 0.1	0.0332	7.9	12.6	20.5	< 0.2	< 1.0	13.9
0711	N	1/11/2005	6,863.14	4.36	3.57	5380	499 D	513 D	98.1	10.7	< 1	3380 D	19	0.84	< 0.1	< 1.0	0.9	0.04	< 0.01	< 0.005	0.48	< 0.05	6.95	< 0.1	0.42	< 0.001	< 0.1	0.0379	5.1	10	15.1	< 0.2	< 1.0	12.3
0711	Dup	1/11/2005	no data	no data	4.99	5410	505 D	518 D	98.3	10.7	5	3430 D	19	0.98	< 0.1	< 1.0	0.9	0.03	< 0.01	< 0.005	0.42	< 0.05	6.94	< 0.1	0.39	< 0.001	< 0.1	0.0338	3.9	12.7	16.6	< 0.2	< 1.0	14.6
0711	N	4/12/2005	6,862.81	4.70	3.73	5190	517	532	108	11.1	< 1	3710	19	1.08	< 0.1	< 1.0	0.9	0.02	< 0.01	< 0.005	0.4	< 0.05	7.59	< 0.1	0.37	< 0.001	< 0.1	0.0336	10.7	11.2	21.9	< 0.2	< 1.0	10.8
0711	Dup	4/12/2005	no data	no data	4.87	5160	528	532	107	11.1	6	3690	19	1.11	< 0.1	< 1.0	0.9	0.02	< 0.01	< 0.005	0.41	< 0.05	7.51	< 0.1	0.38	< 0.001	< 0.1	0.032	10.6	12.1	22.7	< 0.2	< 1.0	8.9
0711	N	7/19/2005	6,862.60	4.32	3.57	5380	490 D	498 D	100	10.9	< 1	3410 D	20	0.95	< 0.1	< 1.0	0.7	0.03	< 0.01	< 0.005	0.45	< 0.05	7.36	< 0.1	0.42 D	< 0.001	< 0.1	0.0346	6.2	12	18.2	< 0.2	< 1.0	10.8
0711	Dup	7/19/2005	no data	no data	4.82	5360	500 D	505 D	104	10.5	4	3450 D	18	1	< 0.1	< 1.0	0.7	0.04	< 0.01	< 0.005	0.42	< 0.05	7.03	< 0.1	0.4	< 0.001	< 0.1	0.0319	6.7	12.2	18.9	< 0.2	< 1.0	11.3
0711	N	10/11/2005	6,862.66	4.51	3.62	5240	492 D	526 D	99.8	10.8	< 1	3560 D	21	0.82	< 0.1	< 1.0	0.8	0.04	< 0.01	< 0.005	0.44	< 0.05	7.3	< 0.1	0.36	< 0.001	< 0.1	0.0302	7.3	15.3	22.6	< 0.2	< 1.0	12.4
0711	Dup	10/11/2005	no data	no data	5.10	5270	496 D	530 D	100	10.9	3	3610 D	21	0.93	< 0.1	< 1.0	0.8	0.03	< 0.01	< 0.005	0.44	< 0.05	7.25	< 0.1	0.39	< 0.001	< 0.1	0.0291	9.6	17	26.6	< 0.2	< 1.0	9.3
0711	N	1/17/2006	6,862.43	4.72	4.68	5140	480 D	515 D	92.5	10.6	< 1	3410 D	17	0.97	0.2	< 1.0	0.7	0.02	< 0.01	< 0.005	0.41	< 0.05	6.78	< 0.1	0.34	< 0.001	< 0.1	0.0278	7.6	15.5	23.1	< 0.2	< 1.0	10.2
0711	Dup	1/17/2006	no data	no data	5.45	5180	478 D	513 D	97.3	10.9	6	3420 D	18	0.98	0.2	< 1.0	0.6	0.02	< 0.01	< 0.005	0.4	< 0.05	6.93	< 0.1	0.39	< 0.001	< 0.1	0.0323	7.2	14.4	21.6	< 0.2	< 1.0	8.4
0711	N	4/11/2006	6,862.40	4.41	4.04	5130	497 D	528 D	99.6	10.6	< 1	3480 D	20	0.83	< 0.1	< 1.0	0.7	0.03	< 0.01	< 0.005	0.43	< 0.05	7.16	0.1	0.36	< 0.001	< 0.1	0.031	5.9	9.9	15.8	< 0.2	< 1.0	5.5
0711	Dup	4/11/2006	no data	no data	5.24	5150	512 D	540 D	98.9	10.6	8	3530 D	17	0.85	< 0.1	< 1.0	0.6	0.02	< 0.01	< 0.005	0.42	< 0.05	6.98	0.1	0.37	< 0.001	< 0.1	0.0281	5.4	15.2	20.6	< 0.2	< 1.0	7.4
0711	N	7/25/2006	6,862.34	4.36	3.08	4790	478 D	491 D	100	10.6	< 1	3350 D	18	1.1	< 0.1	< 1.0	0.6	0.02	< 0.01	< 0.005	0.43	< 0.05	7.48	< 0.1	0.35	< 0.001	< 0.1	0.0306	5.4	13.9	19.3	< 0.2	< 1.0	7.3
0711	Dup	7/25/2006	no data	no data	4.65	4970	484 D	495 D	99.6	10.7	5	3380 D	18	1.11	< 0.1	< 1.0	0.5	0.02	< 0.01	< 0.005	0.41	< 0.05	7.24	0.1	0.35	< 0.001	< 0.1	0.0272	5.2	12	17.2	< 0.2	< 1.0	10.2
0711	N	10/11/2006	6,862.28	4.55	4.41	4930	501 D	524 D	99.6	10.5	< 1	3400 D	16	1.09	< 0.1	< 0.5	0.6	0.1	< 0.01	< 0.005	0.4	< 0.05	7.12	0.4	0.37	< 0.001	< 0.1	0.0295	6.3	13.2	19.5	< 0.2	< 1	6
0711	Dup	10/11/2006	no data	no data	4.97	4960	504 D	529 D	101	10.8	< 1	3410 D	15	1.05	< 0.1	< 0.5	0.6	0.1	< 0.01	< 0.005	0.41	< 0.05	7.18	0.4	0.39	< 0.001	< 0.1	0.0279	5.9	12.3	18.2	< 0.2	< 1	6.8
0711	N	1/17/2007	6,862.15	4.06	3.81	5130	383 D	402 D	74.9	8.1	<1	2680 D	13	0.39	<0.1	<0.5	0.4	0.02	<0.01	<0.005	0.29	<0.05	5.3	<0.1	0.27	<0.001	<0.1	0.0237	6.8	9.9	16.7	<0.2	<1	8.5
0711	Dup	1/17/2007	no data	4.80	5.39	5160 H	413 D	431 D	81.3	8.9	3	2880 D	14	0.53	<0.1	<0.5	0.4	0.04	<0.01	<0.005	0.31	<0.05	5.61	0.2	0.3	<0.001	<0.1	0.0215	6.8	9.2	16	<0.2	<1	9.3
0711	N	4/16/2007	6,862.14	4.60	3.91	5070	484 D	519 D	89.6	10.3	<1	3500 D	18	0.41	<0.1	<0.5	0.5	0.03	<0.01	<0.005	0.4	<0.05	6.96	0.1	0.36	<0.001	<0.1	0.0327	5.6	13.5	19.1	<0.2	<1	7.3
0711	Dup	4/16/2007	no data	4.88	5.10	5110	480 D	512 D	88.6	10.2	4	3490 D	17	0.43	<0.1	<0.5	0.5	0.03	<0.01	<0.005	0.39	<0.05	6.8	0.1	0.35	<0.001	<0.1	0.0248	4.8	15.5	20.3	<0.2	<1	6.8
0711	N	7/16/2007	6,861.85	4.26	3.10	4810	490 D	515 D	94.2	10.1	<1	3480 D	16	0.75	<0.1	<0.5	0.5	0.05	<0.01	<0.005	0.39	<0.05	6	0.1	0.37	<0.001	<0.1	0.0268	5.1	16.4	21.5	<0.2	<1	6.8
0711	Dup	7/16/2007	no data	4.60	4.33	4980	485 D	516 D	96.1	10.2	<1	3510 D	16	0.71	<0.1	<0.5	0.5	0.04	<0.01	<0.005	0.38	<0.05	6.07	0.1	0.35	<0.001	<0.1	0.0248	5.3	13.2	18.5	<0.2	<1	6.1

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0711	N	10/8/2007	6,861.68	4.46	3.80	5090	489 D	512 D	100	11.2	<1	3470 D	18	0.48	<0.1	<0.5	0.4	0.03	<0.01	<0.005	0.4	<0.05	7.09	0.1	0.34	<0.001	<0.1	0.024	3.9	15.6	19.5	<0.2	<1	7.7
0711	Dup	10/8/2007	no data	4.68	4.91	5140	486 D	505 D	98.3	11.1	6	3430 D	18	0.52	<0.1	<0.5	0.4	0.03	<0.01	<0.005	0.4	<0.05	7.06	0.1	0.34	<0.001	<0.1	0.023	3.5	15.1	18.6	<0.2	<1	7.6
0711	N	1/21/2008	6,862.05	4.46	3.54 H	4850	460 D	475 D	98.6	12.1	< 1	3190 D	23 D	0.51	< 0.1	< 0.5	0.4	0.045	< 0.01	< 0.005	0.38	< 0.05	6.34	0.2	0.35	< 0.001	< 0.1	0.0241	7	15.3	22.3	< 0.2	< 1	9.1
0711	Dup	1/21/2008	no data	4.74	4.73 H	5030	464 D	474 D	91.1	11.9	4	3220 D	22	0.52	0.1	< 0.5	0.4	0.038	< 0.01	< 0.005	0.37	< 0.05	6.24	0.1	0.34	< 0.001	< 0.1	0.0224	7.4	14.6	22	< 0.2	< 1	8.2
0711	N	4/14/2008	6,861.50	4.46	3.91	4770	479	492	98 D	10.7	< 1	3470 D	15	0.36	< 0.1	< 0.50	0.5	0.01	< 0.01	< 0.005	0.38 D	< 0.05	6.59	0.2	0.35	< 0.001	< 0.1	0.0248	4	18.4	22.4	0.4	0 U	8.4
0711	Dup	4/14/2008	no data	4.69	4.68	4740	482	496	98 D	10.7	5	3510 D	15	0.36	< 0.1	< 0.50	0.5	0.01	< 0.01	< 0.005	0.37	< 0.05	6.76	0.2	0.35	< 0.001	< 0.1	0.0227	4	17.4	21.4	0.4	0 U	8.1
0711	N	7/14/2008	6,861.55	4.58	4.15	4870	464	463	91 D	10	< 1	3230 D	13	0.32	< 0.1	< 0.5	0.4	0.005	< 0.01	< 0.005	0.34	< 0.05	6.12	0.2	0.33	< 0.001	< 0.1	0.0206	3.7	9.8	13.5	0.2	2.3 U	6.4
0711	Dup	7/14/2008	no data	4.77	5.07	4960	456	457	92 D	10	2	3390 D	13	0.32	< 0.1	< 0.5	0.4	0.006	< 0.01	< 0.005	0.34	< 0.05	6.27	0.2	0.4	< 0.001	< 0.1	0.0196	3.8	11	14.8	<0.5 U	6 U	6.4
0711	N	10/13/2008	6,861.50	4.28	3.78	5040	430	442	86 D	9	< 1	3270 DH	15	0.7 D	< 0.1	< 0.5	0.3	0.006	< 0.01	< 0.005	0.36	< 0.05	6.18	0.1	0.32	< 0.001	< 0.1	0.0214	4.4	7.5	11.9	0.1 U	2.1 U	10.3
0711	Dup	10/13/2008	no data	4.65	4.54 H	5050	478	476	91 D	10	< 1	3690 D	16	0.7 D	< 0.1	< 0.5	0.3	0.008	< 0.01	< 0.005	0.36	< 0.05	6.15	0.2	0.32	< 0.001	< 0.1	0.0195	4.6	9.2	13.8	<0.1 U	0.2 U	10.4
0711	N	1/19/2009	6,861.15	4.45	3.34	5050 H	493	499	101	11	<1	3350 D	14	0.31	<0.1	<0.5	0.3	0.008	<0.01	<0.005	0.32	<0.05	5.81	0.1	0.32	<0.001	<0.1	0.0175	4	13	17	<0.1 U	0.8 U	7
0711	Dup	1/19/2009	no data	4.73	5.15	5070 H	506	517	102	11	6	3320 D	12	0.21	<0.1	<0.5	0.3	0.008	<0.01	<0.005	0.33	<0.05	5.89	0.2	0.32	<0.001	<0.1	0.017	4.7	13	17.7	0 U	1.1 U	8.7
0711	N	4/13/2009	6,861.30	4.53	3.2	5020	445 D	455 D	96 D	9	<1	3410 D	16	0.27	<0.1	<0.50	0.3	0.008	<0.01	<0.005	0.33	<0.05	5.78	0.1	0.3	<0.001	<0.1	0.0161	3.6	10	13.6	0.9	<1 U	8.7
0711	Dup	4/13/2009	no data	4.76	4.82	4960	484	481	104	11	11	3440 D	13	0.3	<0.1	<0.50	0.3	0.013	<0.01	<0.005	0.33	<0.05	5.82	0.2	0.31	<0.001	<0.1	0.0159	3.7	12	15.7	0.6	<1 U	10.3
0711	N	7/13/2009	6,861.20	4.34	3.21	4940 H	478	458	92	10	<1	3560 D	31	0.32	<0.1	<0.50	0.3	<0.001	<0.01	<0.005	0.32	<0.05	5.92 D	0.1	0.29	0.004	<0.1	0.0169	4.3	12	16.3	0.08 U	1.4 U	9.3
0711	Dup	7/13/2009	no data	4.58	4.82	4990 H	482 D	453	93 D	11	1	3440 D	17	0.32	<0.1	<0.50	0.2	<0.001	<0.01	<0.005	0.32	<0.05	5.56	0.1	0.28	<0.001	<0.1	0.015	3.9	12	15.9	<0.08 U	<0.2 U	7.2
0711	N	10/12/2009	6,861.30	4.47	4.07	4960	480 D	472	100 D	11	<1	3620 D	19	0.47	<0.1	<0.50	0.3	<0.001	<0.01	<0.005	0.32	<0.05	5.77	0.2	0.3	<0.001	<0.1	0.0167	4	12	16	0.04 U	1.5 U	7
0711	Dup	10/12/2009	no data	4.25	5.26	4890 H	489 D	475	94 D	11	3	3550 D	16 H	0.41	<0.1	<0.50	0.4	0.002	<0.01	<0.005	0.32	<0.05	5.7	0.2	0.29	<0.001	<0.1	0.0161	4.8	11	15.8	0.05 U	1.9 U	8.2
0711	N	1/11/2010	6,860.85	4.43	4.27	4760 D	491 D	469	95	11	<5	3510 D	21	0.55	0.13	<0.50	0.2	0.001 H	<0.01	<0.005	0.32	<0.05	5.42	0.1	0.29	<0.001	<0.1	0.0154	3.9	15	18.9	<0.03 U	1.6 U	5.8
0711	Dup	1/11/2010	no data	4.64	4.89	4880 D	501 D	484	101	11	5	3550 D	16	0.41	0.11	<0.50	0.2	0.002 H	<0.01	<0.005	0.31	<0.05	5.36	0.1	0.29	<0.001	<0.1	0.0149	3.7	13	16.7	0.02 U	1.3 U	5.2
0711	N	4/12/2010	6,861.00	4.7	3.65	4960 D	479	472	99	10	<5	3360 D	17	0.67	0.1	<0.50	0.2	0.004	<0.01	<0.005	0.32	<0.05	5.66	<0.1	0.3	<0.001	<0.1	0.0161	4.5	9.8	14.3	0.06 U	1.3 U	6.4
0711	Dup	4/12/2010	no data	4.88	4.9	5000 D	488	484	102	10	<5	3460 D	16	0.57	0.1	<0.50	0.2	0.007	<0.01	<0.005	0.3	<0.05	5.5	<0.1	0.28	<0.001	<0.1	0.0159	4.5	9.8	14.3	0.3	1.3 U	5.6
0711	N	7/19/2010	6,860.75	4.45	3.41	4880 D	462	464	96	10	<5	3470 D	16 D	0.77	0.1	<0.50	0.2	0.006	<0.01	<0.005	0.32	<0.05	5.54	0.2	0.27	<0.001	<0.1	0.0167	5.4	8.2	13.6	<0.005 U	0.4 U	5.4
0711	Dup	7/19/2010	no data	4.7	4.6	5030 D	475	474	97	10	<5	3420 D	16 D	0.72	<0.1	<0.50	0.2	0.004	<0.01	<0.005	0.32	<0.05	5.5	<0.1	0.26	<0.001	<0.1	0.0154	5.7	7.4	13.1	<0.07 U	1.8 U	5.5
0711	N	10/11/2010	6,860.90	3.05	3.23	4850 D	472	447	102	10	<5	3610 D	13 D	0.79	<0.1	<0.50	0.2	0.004	<0.01	<0.005	0.31	<0.05	5.41	<0.1	0.28	<0.001	<0.1	0.0189	4.7	8.3	13	0.1 U	<0.5 U	4.6
0711	Dup	10/11/2010	no data	3.05	4.19	4500 D	476	441	99	10	<5	3640 D	13 D	0.74	<0.1	<0.50	0.2	0.009	<0.01	<0.005	0.31	<0.05	5.33	0.2	0.27	<0.001	<0.1	0.0131	5.9	8.6	14.5	0.05 U	<0.6 U	5.4
0711	N	1/17/2011	6,860.75	5.09	4.87	4760 D	468	452	100	11	6	3390 D	17 D	0.36	<0.1	<0.50	0.3	0.024 D	<0.01	<0.005	0.35	<0.05	5.52	0.5	0.28	0.003	<0.1	0.0201	3.5	7.7	11.2	<0.004 U	1.7	5.7
0711	N	4/12/2011	6,860.60	4.83	5.12	4960 D	475	448	101	11	9	3420 D	17 D	0.38	<0.1	<0.50	0.2	0.005	<0.01	<0.005	0.3	<0.05	5.46	0.1	0.27	<0.001	<0.1	0.0155	4.6	9.5	14.1	0.1 U	2.1	5.9
0711	N	7/18/2011	6,860.40	4.71	4.55	4770 D	457	428	98	10	<5	3380 D	16 D	0.4 D	<0.5	<0.50	0.3	<0.01	<0.01	<0.005	0.25	<0.05	4.16	0.1	0.27	<0.001	<0.1	0.013	4.5	6.9	11.4	0.03 U	<0.7 U	4.9
0711	Dup	7/18/2011	no data	4.87	5.02	4790 D	473	450	103	11	<5	3340 D	16 D	0.4 D	<0.5	<0.50	0.2	<0.01	<0.01	<0.005	0.24	<0.05	4	<0.1	0.27	<0.001	<0.1	0.0123	4.3	7.9	12.2	0.1 U	<0.7 U	4
0711	N	10/11/2011	6,860.57	4.81	4.26	4840 D	480	449	101	11	<5	3490 D	17 D	0.4 D	<0.5	<0.50	0.5	0.037	<0.01	<0.005	<0.01	<0.05	4.71	0.1	0.27	<0.001	<0.1	0.0163	4	6.3	10.3	0.04 U	<0.1 U	4.9
0711	Dup	10/11/2011	no data	4.84	5.27	4940 D	471	450	98	11	7	3420 D	16 D	0.4 D	<0.5	<0.50	0.2	0.015	<0.01	<0.005	0.28	<0.05	5.02	0.1	0.26	<0.001	<0.1	0.0157	3.7	6.5	10.2	0.1 U	0.1 U	4.4
0711	N	1/9/2012	6,860.29	4.83	3.27 H	4730 D	485	422	95	10	<5	3400 D	17 D	0.34	<0.1	<0.50	0.2	0.004	<0.01	<0.005	0.33	<0.05	5.36	<0.1	0.29	<0.001	<0.1	0.0185	3.1	6.4	15.9	0.07 U	0.7 U	5
0711	Dup	1/9/2012	no data	5.06	4.07 H	4810 D	454	428	94	10	<5	3360 D	17 D	0.34	<0.1	<0.50	0.2	0.006	<0.01	<0.005	0.36	<0.05	5.66	<0.1	0.29	<0.001	<0.1	0.016	3.1	6	15.1	0.1 U	0.1 U	4.3
0711	N	4/9/2012	6,860.09	4.75	3.25 H	4860 D	450	449	97	10	<5	3650 D	18 D	0.39	<0.2	<0.50	0.2	<0.01	<0.01	<0.005	0.29	<0.05	5.36	<0.1	0.26	<0.001	<0.1	0.0203	4.6	7.7	20	0.1 U	0.3 U	4.6
0711	Dup	4/9/2012	no data	4.91	4.77 H	4940 D	449	451	94	10	<5	3370 D	17 D	0.39	<0.1	<0.50	0.2	<0.01	<0.01	<0.005	0.28	<0.05	5.17	0.1	0.26	<0.001	<0.1	0.0188	4	7.9	19.8	0.05 U	0.7 U	5.3
0711	N	7/17/2012	6,860.00	4.72	3.30 H	5020	482	460	117	12	<5	3400 D	18 D	0.38	<0.1	<0.50	0.2	0.002	0.002	<0.005	0.28	0.004	5.12	<0.1	0.26	<0.001	<0.1	0.0177	4.2	5.8	15.8	0.06 U	0.4 U	5.5
0711	Dup	7/17/2012	no data	4.83	4.73 H	4850	486	461	113	12	<5	3420 D	18 D	0.4	<0.1	<0.50	0.2	0.004	0.002	<0.005	0.27	<0.001	5.02	0.1	0.26	<0.001	<0.1	0.0162	3.5	6.7	16.9	0.07 U	1.6	5.4
0711	N	10/15/2012	6,860.05	5.07	3.78 H	4520	500	462	103 D	11	<5	3280 D	16 D	0.42	<0.2	<0.50	0.3	0.004	0.002	<0.005	0.29	0.003	5.02	0.2	0.27	<0.001	<0.1	0.0169	3.4	9.6	13	0.09 U	1.1	4.3
0711	N	1/14/2013	6,860.12	4.66	3.87 H	4850 H	504	462	103 D	11	<5	3370 D	16 D	0.43	<0.1	<0.50	0.4	0.005	0.003	<0.005	0.28	0.004	5.01	0.3	0.27	<0.001	<0.1	0.0183	4.4	5.7	10.1	0.07 U	0.8 U	3.5
0711	N	4/8/2013	6,860.32	4.63	3.41 H	4680	479	458	103	11	<5	3430 D	16 D	0.5	<0.1	<0.50	0.3	0.004	0.002	<0.005	0.27	0.005	5.12	0.2	0.27	<0.001	<0.1	0.021	4.8	7.8	12.6	0.2 U	0.9 U	6.3
0711	N	7/15/2013	6,859.64	4.79	3.46 H	4840	475	457	103	10	<5	3370 D	17 D	0.39	<0.1	<0.50	0.3	0.003	0.002	<0.005	0.29	0.002	5.05	0.1	0.27	<0.001	<0.1	0.0181	3.3	9.4	12.7	0.0 U	0.03 U	5.2
0711	N	10/8/2013	6,859.63	4.93	3.84 H	4800	465	453	101	10	<5	3330 D	17 D	0.4	<0.1	<0.50	0.3	0.002	0.003	<0.005	0.27	0.006	4.67	<0.1	0.27	<0.001	<0.1	0.0176	0.98	0.94 U	0.98	0.2	0.3 U	4
0711	N	1/15/2014	6,859.38	5.57	5.33	4420	476	450	104	10	14	2900	17	0.43	<0.1	<0.50	0.4	0.005	0.002	<0.005	0.23	0.003	4.29	0.3	0.22	<0.001	<0.1	0.0159	4.1	6.4	10.5	0.2	0.9 U	6
0711	N	4/7/2014	6,859.26	4.87	3.79 H	4690	473	455	103 D	11	<5	3510 D	19 D	0.45	<0.1	<0.50	0.3	0.007	0.002	<0.005	0.27	0.007	4.77	<0.1	0.25	<0.001	<0.1	0.0199	5.4	7.4	12.8	0.3	0.7 U	4.1
0711	N	7/15/2014	6,859.09	4.70	3.11 H	4580	455	429	102 D	11	<5	3320 D	18 D	0.46	<0.1	<0.50	0.3	<0.001	0.003	<0.005	0.26	0.01	4.82	<0.1	0.26	<0.001	<0.1	0.0192	3.3	5.4	8.7	0.04 U	0.1 U	4.2
0711	N	10/13/2014	6,859.13	4.71	3.07 H	4790	457	446	101	10	<5	3400 D	20 D	0.62	<0.1	<0.50	0.3	<0.001	0.003	<0.005	0.29	0.02	4.98	<0.1	0.28	<0.001	<0.1	0.14	5	11	16	0.02 U	0.09 U	6.4
0711	N	1/12/2015	6,859.03	4.78	3.13 H	4780	455	457	104	10	<5	3370 D	19 D	0.77	<0.1	<0.50	0.5	0.002	0.004	<0.005	0.31	0.012	5.26	<0.1	0.31	<0.001	<0.1	0.0213	5.2	8.9	14.1	0.09 U	0.3 U	14.3
0711	N	4/13/2015	6,858.91	4.66	3.21 H	4950	454	460	107	11	<5	3410 D	22	1.14	<0.1	<0.50	0.9	0.002	0.005	<0.005	0.35	0.012	5.58	<0.1	0.33	<0.001	<0.1	0.0307	5.2	6.4	11.6	0.02 U	0.9 U	22.5
0711	N	7/14/2015	6,858.84	4.62	3.32 H	5020	467	458	96	20	<5	3590 D	23 D	1.36	<0.1	<0.50	1.4	<0.001	0.006	<0.005	0.4	0.008	6.28	<0.1	0.43	<0.001	<0.1	0.0393	4.6	7.6	12.2	0.4 U	0.1 U	22
0711	N	10/12/2015	6,858.72	4.56	3.59 H	5220	451	478	111	12	<5	3620 D	26 D	1.8	<0.1	<0.50	2.5	<0.001	0.007	<0.005	0.52	<0.001	7.81	<0.1	0.6	<0.001	<0.1	0.0494	4.3	7.9	12.2	0.2 U	1 U	9.2
0711	N	1/11/2016	6,858.59	4.62	3.34 H	5080	462	437	103	16	<5	3440 D	27 D	2.0 D	<0.1	<0.50	1.9	0.004	0.009	<0.005	0.54	0.002	7.72	<0.1	0.63	<0.001	<0.1	0.0504	5	8.8	13.8	0.3	0.2 U	30.4
0711	N	4/11/2016	6,858.57	4.38	3.35 H	5220	458	496	117	13	<5	3500 D	24 D	2.3 D	<0.1	<0.50	4.9	0.002	0.013	<0.005	0.58 D	0.003	8.83	<0.1	0.71	<0.001	<0.1	0.084	6.1	8	14.1	0.01 U	0.7 U	36.2
0711	N	7/18/2016	6,858.32	4.23	3.30 H	5150 DH	456	494	117	13	<5	3520 D	27 D	2.13	<0.1	<0.50	7.3	0.002	0.017	<0.005	0.63	0.006	8.84	<0.1	0.76	<0.001	<0.1	0.12	4.8	8.2	13	0.04 U	0.2 U	19.4
0711	N	10/10/2016	6,858.28	4.15	2.93 H	5000 H	458	500	116	13	<5	3690 D	28 D	2.2 D	<0.1	<0.50	10	0.002	0.023	<0.005	0.71	0.004	9.64	<0.1	0.85	<0.001	<0.1	0.125	6.1	11	17.1	0.1 U	0.2 U	16.6
0711	N	1/16/2017	6,858.42	4.16	3.20 H	5090 D	439	485	114	13	<5	3980 D	26 D	2.1 D	0.1	<0.50	12.1	<0.001	0.025	<0.005	0.67	0.016	8.72	<0.1	0.81	<0.001	<0.1	0.138	7.2	6.1	13.3	0.2	0.3 U	16.4
0711	N	4/10/2017	6,858.07	3.97	3.44 H	5100 D	429	453	108	12	<5	3690 D	25 D	2.0 D	<0.01	<0.50	14	<0.001	0.027	<0.005	0.7	0.006	9.17	0.3	0.92	<0.001	<0.1	0.164	8	10	18	0.4	1.1 U	17.6
0711	N	7/17/2017	6,857.95	4.15	3.00 H	5040 D	462	486	115 D	12	<5	3650 D	27 D	1.9 D	<0.01	<0.50	18	0.001	0.038	<0.005	0.81	0.004	10.1	<0.1	0.99	<0.001	<0.1	0.22	7.7	5.4	13.1	0.06 U	1.2 U	10.3
0711	N	10/9/2017	6,858.12	3.89	3.27 H	5160 D	452	486	113 D	11	<5	3880 D	27 D	2.2 D	0.01	<0.50	21	0.001	0.036	<0.005	0.78	0.009	9.55	0.3	0.99	<0.001	<0.1	0.254	7.7	7.2	14.9	0.2	-4 U	9.5
0711	N	1/15/2018	6,857.81	3.84	3.49 H	4920 D	448	501	110 D	11	<5	3780 D	24 D	1.9 D	0.2 D	<0.50	25.5 D	<0.001	0.042	<0.001	0.828	0.002	9.66 D	0.116	1.01	<0.001	<0.01	0.301	8.4	12	20.4	0.2 U	-0.2 U	10

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0711	N	4/9/2018	6,857.70	4.04	3.43 H	5450 D	463 D	497	116	11	<5	3820 D	23 D	1.5 D	<0.01	<0.50	25.4	<0.001	0.042	<0.001	0.778	0.003	9.45	0.058	1.01	<0.001	<0.01	0.307	7.5	8.3	15.8	0.1 U	1.1 U	10.9
0711	N	7/17/2018	6,857.51	4.35	3.25 H	5030 DH	450	443	97	9	<5	3560 D	23 D	1.6 D	0.02	<0.50	20.4	<0.02	0.032	0.001	0.66	0.007	7.92	0.271	0.835	<0.001	<0.01	0.239	9	13.4	22.4	0.08 U	0.9 U	5.4
0711	N	10/8/2018	6,857.80	3.02	3.46 H	5000 D	409	442	96 D	9	<5	3610 D	21 D	1.25	0.03	<0.50	20.8	<0.001	0.033	<0.001	0.527	0.052	6.85	0.062	0.668	<0.001	<0.01	0.242	4.6	8.1	12.7	0.09 U	0.9 U	9.5
0711	N	1/15/2019	6,857.42	4.18	3.38 H	5180 D	409	489	117 D	12	<5	3480 D	22 D	1.28	0.04	<0.50	22.3	no data	0.036	<0.001	0.554	0.024	7.82	0.057	0.775	no data	<0.01	0.251	6.9	6.1	13	0.4	0.6 U	10.9
0711	N	4/15/2019	6,857.52	4.14	3.4 H	5350 DH	446	500	105	10	<5	3680 D	23 D	1.37	0.02	<0.50	22.2 D	0.008	0.036	<0.001	0.643	0.005	8.33	0.043	0.88 D	<0.001	<0.01	0.275	7.7	9.3	17	0.2	0.3 U	17
0711	N	7/23/2019	6,857.10	3.96	3.34 H	5460 DH	428	538	110	11	<5	3720 D	24 D	1.38	<0.01	<0.50	29 D	0.002	0.045	<0.001	0.677	0.009	8.82 D	0.005	0.93	<0.001	<0.01	0.332	8.8	9.7	18.5	0.2	0.04 U	11.1
0711	N	10/3/2019	6,857.21	4.01	3.23 H	5400 DH	442	482	112	12	<5	3800 D	25 D	1.4 D	0.01	0.92	30 D	0.001	0.043	<0.001	0.74 D	0.007	9.1 D	0.006	0.517	<0.001	<0.01	0.186	7.6	10.6	18.2	0.5	0.6 U	11.5
0717	N	4/9/2001	6,855.40	5.65	7.30	3300	631	137	118	6.4	498	1650	54.2	0.11	12.3	< 1	< 0.1	0.002	< 0.01	< 0.005	0.01	< 0.05	1.4	0.12	< 0.05	< 0.001	< 0.1	0.057	4.2	4.5	8.7	< 0.2	< 1	4
0717	N	7/16/2001	6,855.30	6.32	7.35	3350	591	127	124	6.7	539	1630	61.7	0.13	12.4	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.36	0.1	< 0.05	< 0.001	< 0.1	0.065	3.7	3.7	7.4	< 0.2	< 1	2.5
0717	N	10/8/2001	6,855.30	7.01	7.20	3300	600	130	105	6.1	588	1600	66.7	0.05	10.6	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.08	0.08	< 0.05	< 0.001	< 0.1	0.0643	3.5	4.5	8	< 0.2	< 1	4.8
0717	N	1/9/2002	6,855.20	7.76	7.10	3230	669	128	107	8	656	1530	75	0.07	10.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.01	< 0.05	1.4	0.2	0.06	< 0.001	< 0.1	0.0841	4.9	7.6	12.5	< 0.2	< 1	3.5
0717	N	4/9/2002	6,854.75	7.34	7.39	3320	660	124	129	6.6	654	1700	64.4	0.1	12.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.61	0.2	< 0.05	< 0.001	< 0.1	0.112	3.1	3.8	6.9	< 0.2	< 1	3.4
0717	N	7/15/2002	6,854.73	6.67	7.52	3420	791	147	125	5.9	740	1886	48.4	0.22	16.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.6	0.2	< 0.05	< 0.001	< 0.1	0.118	3.1	7.3	10.4	< 0.2	< 1	3.2
0717	N	10/14/2002	6,854.47	6.65	7.61	3130	720	144	125	6.3	704	1780	68.3	0.21	15.6	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.77	0.2	< 0.05	< 0.001	< 0.1	0.115	2.2	3.2	5.4	< 0.2	< 1	4.8
0717	N	1/13/2003	6,854.02	7.46	7.05	3530	621	130	104	6.2	731	1440	47.2	0.24	21.5	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	1.96	0.2	< 0.05	< 0.001	< 0.1	0.12	5.4	8.6	14	< 0.2	< 1	4.9
0717	N	4/8/2003	6,853.75	6.44	7.19	3620	697	147	143	9.9	705	1615	71.2	0.27	22.9	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.85	0.2	< 0.05	< 0.001	< 0.1	0.133	2.8	11	13.8	< 0.2	< 1	8.1
0717	N	7/8/2003	6,853.63	6.28	7.47	3790	735	175	128	7.7	737	1880	60.9	0.29	23	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.5	0.2	< 0.05	< 0.001	< 0.1	0.0994	3.3	3.4	6.7	< 0.2	< 1	3
0717	N	10/13/2003	6,853.24	6.37	7.43	3840	765	206	135	7.2	705	2080	75.3	0.37	25.1	< 1	0.3	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.54	0.2	< 0.05	< 0.001	< 0.1	0.107	2.3	4.1	6.4	< 0.2	< 1	5.4
0717	N	1/12/2004	6,852.78	6.52	7.43	3960	725	211	136	7.7	689	2100	72.3	0.47	27.7 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.01	< 0.05	3.05	0.2	< 0.05	< 0.001	< 0.1	0.106 D	4.4	5	9.4	< 0.2	< 1.0	5.4
0717	N	4/12/2004	6,852.40	6.31	6.75	4000	695	218	135	9.3	650	2100	77.1	0.83	23.8 D	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.01	< 0.05	2.97	0.2	< 0.05	< 0.001	< 0.1	0.0855 D	3.1	< 1	3.1	< 0.2	< 1	5.9
0717	N	7/19/2004	6,852.07	6.43	6.54	4130	747 D	242 D	151	8.9	635	2150 D	66	1.31	26.2 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	3.04	< 0.1	< 0.05	< 0.001	< 0.1	0.0802 D	4.3	5.1	9.4	< 0.2	< 1.0	6.4
0717	N	10/11/2004	6,851.80	6.57	6.99	4180	729 D	270 D	148	9.6	559	2330 D	69	1.81	26.8 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.01	< 0.05	3.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0692	4	6.2	10.2	< 0.2	< 1.0	7.9
0717	N	1/10/2005	6,851.37	6.51	6.94	4280	719 D	272 D	147	9.9	541	2280 D	69	2.88	25.8 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.01	< 0.05	3.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0708	4.5	4.2	8.7	< 0.2	< 1.0	5.5
0717	N	4/18/2005	6,850.62	6.38	7.09	4210	649	253	151	11.5	512	2410	128	4.69	27.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.02	< 0.05	3.91	0.1	< 0.05	< 0.001	< 0.1	0.0576	6.1	7.6	13.7	< 0.2	< 1.0	5.9
0717	N	7/18/2005	6,849.32	6.00	6.97	4450	685 D	288 D	158	11	480	2420 D	61	6.1 D	27.2 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.02	< 0.05	4.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0554	5.5	5.4	10.9	< 0.2	< 1.0	7.8
0717	N	10/10/2005	6,848.82	6.49	7.00	4500	712 D	319 D	152	11.9	518	2520 D	72	6.6 D	26.4 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.03	< 0.05	4.5	< 0.1	< 0.05	< 0.001	< 0.1	0.0536	7.2	8.5	15.7	< 0.2	< 1.0	9.2
0717	N	1/16/2006	6,848.64	6.31	7.07	5430	726 D	412 D	159	18.8	415	3290 D	76	41.3 D	27.4 D	< 1.0	0.5	< 0.001	< 0.01	< 0.005	0.07	< 0.05	13.2	< 0.1	0.06	< 0.001	< 0.1	0.0325	15.1	17.8	32.9	< 0.2	< 1.0	16.1
0717	N	4/10/2006	6,848.37	6.17	6.69	5520	809 D	472 D	162	20.8	291	3770 D	103	53.0 D	25.2 D	< 1.0	1.6	< 0.001	< 0.01	< 0.005	0.19	< 0.05	15.8	< 0.1	0.11	0.002	< 0.1	0.019	16.7	21.4	38.1	< 0.2	< 1.0	14.6
0717	N	7/24/2006	6,847.93	5.83	6.44	5260	704 D	450 D	181	21.9	212	3540 D	80	56.4 D	25.4 D	< 1.0	1.3	< 0.001	< 0.01	< 0.005	0.42	< 0.05	19.8	< 0.1	0.26	< 0.001	< 0.1	0.012	17.7	22.4	40.1	< 0.2	< 1.0	20.7
0717	N	10/9/2006	6,847.59	6.05	6.27	5230	622	325	172	20.2	189	3040	74	60.7 D	26.2 D	< 0.5	0.2	0.001	< 0.01	< 0.005	0.42	< 0.05	18.3	< 0.1	0.29	< 0.001	< 0.1	0.0102	20.5	26.1	46.6	< 0.2	< 1	19
0717	N	1/16/2007	6,846.80	6.07	6.65	5410	646 D	402 D	163	19.1	146	3270 D	79	47.2 D	29.1 D	<0.5	0.9	<0.001	<0.01	<0.005	0.3	<0.05	19.1	<0.1	0.27	<0.001	<0.1	0.0105	18.3	21.7	40	<0.2	<1	23.3
0717	N	4/10/2007	6,846.65	6.04	6.16	5110	665 D	427 D	169	20.4	176	3410 D	80	56 D	29.1 D	<0.5	1.3	<0.001	<0.01	<0.005	0.36	<0.05	16.8	<0.1	0.26	<0.001	<0.1	0.0063	19.6	25.9	45.5	<0.2	<1	30.6
0717	N	7/16/2007	6,846.22	5.82	6.11	4980	663 D	449 D	170	19.6	144	3550 D	74	58.4 D	35 D	<0.5	1.9	0.005	<0.01	<0.005	0.4	<0.05	16.3	<0.1	0.27	<0.001	<0.1	0.0033	20.4	28.7	49.1	<0.2	<1	19.3
0717	N	10/9/2007	6,845.78	5.73	6.10	5420	633 D	448 D	162	19.6	92	3440 D	79	63.6 D	31.1 D	<0.5	3.2	0.001	<0.01	<0.005	0.5	<0.05	17.2	<0.1	0.34	<0.001	<0.1	0.0036	14.3	25.2	39.5	<0.2	<1	20.9
0717	N	1/22/2008	6,845.20	5.64	5.9	5050	596 D	436 D	161	22.9	74	3390 D	94	68.5 D	37.2 D	< 0.5	3.9	0.002	< 0.01	0.005	0.55	< 0.05	20.7	< 0.1	0.43	< 0.001	< 0.1	0.0017	25.3	29.7	55	< 0.2	5.3	26.4
0717	N	4/15/2008	6,845.22	5.59	5.8	5560	597	473	186 D	21.5	58	3950 D	72	71.0 D	44.8	< 0.50	7.6	< 0.001	< 0.01	0.006	0.65 D	< 0.05	23.7	< 0.1	0.55	< 0.001	< 0.1	0.0011	18.6	22.8	41.4	0.6	<3.3 U	22.1
0717	N	7/15/2008	6,860.70	4.77	5.58	5460	521	438	162 D	19	31	3450 D	56	70.5 D	37.7 D	0.51	13.6	< 0.003	< 0.01	0.008	0.59	< 0.05	21.8	< 0.1	0.53	< 0.001	< 0.1	0.0012	20	26	46	0.1 U	7 U	24.3
0717	N	10/14/2008	6,860.65	4.65	5.03	5660	505	462	169 D	19	6	3670 D	65	71 D	37.6 D	< 0.5	16.5	< 0.001	0.02	0.01	0.77	< 0.05	22.9	< 0.1	0.67	< 0.001	< 0.1	0.0028	21	21	42	0.3	3 U	34.9
0717	N	1/19/2009	6,843.92	4.41	4.44	5960 H	539	553	201	21	<1	3970 D	56	57.4 D	53.1 D	<0.5	46	<0.001	0.05	0.015	0.9	<0.05	23.1	<0.1	0.81	<0.001	<0.1	0.0187	23	24	47	0.3	3 U	32.3
0717	N	4/14/2009	6,843.82	4.28	4.29	6060	453 D	502 D	181 D	16	<1	4060 D	70	56 D	35.1 D	1.17	86.2	<0.001	0.07	0.015	0.93	<0.05	23.9	<0.1	0.84	<0.001	<0.1	0.0331	21	24	45	<0.2 U	2.0 U	34.5
0717	N	7/14/2009	6,843.47	3.65	4.23	6480	454	532	179	14	<1	4440 D	68	76.7 D	27.6	1.24	149 D	<0.001	0.1	0.014	0.95	<0.05	21.8	<0.1	0.82	<0.001	<0.1	0.0377	17	25	42	0.1 U	4.5	34.7
0717	N	10/13/2009	6,843.17	4.14	4.3	6570 H	475 D	548	181 D	14	<1	4520 D	74	77 D	26.2	0.55	145	<0.001	0.11	0.015	0.99	<0.05	23.5	<0.1	0.88	<0.001	<0.1	0.0483	20	29	49	0.01 U	<0.1 U	35.6
0717	N	1/12/2010	6,842.87	3.96	4.28	6370 D	488 D	562	184 D	15	<5	4880 D	67	34 D	30 D	0.77	136	<0.001	0.1	0.012	0.99	<0.05	22.2	<0.1	0.92	<0.001	<0.1	0.0293	15	34	49	<0.03 U	1.7 U	28
0717	N	4/12/2010	6,842.82	4.2	4.14	6490 D	472	569	181	13	<5	4690 D	67	64 D	24.1 D	<0.50	138	<0.001	0.09	0.013	1.02	<0.05	23.4	<0.1	0.96	<0.001	<0.1	0.0294	16	25	41	0.1 U	2.3 U	34.3
0717	N	7/20/2010	6,842.32	3.95	4.13	6560 D	458	542	169	12	<5	4730 D	67 D	62 D	26 D	<0.50	127	<0.001	0.1	0.016	1.01	<0.05	21	<0.1	0.86	<0.001	<0.1	0.0108	18	21	39	0.6 U	3.6 U	23.3
0717	N	10/12/2010	6,842.17	4.23	4.33	6220 D	473	522	178	13	<5	4440 D	62 D	66 D	24 D	0.68	120	<0.001	0.09	0.017	0.94	<0.05	19.2	<0.1	0.83	<0.001	<0.1	0.0168	18	24	42	0.7 U	4.6	27.9
0717	N	1/11/2011	6,841.77	4.28	4.29	6250 D	450	520	166	12	<5	4690 D	69 D	64 D	20 D	3.38	143	<0.001	0.09	0.011	1.02	<0.05	20.8	<0.1	0.91	<0.001	<0.1	0.0482	20	23	43	0.5 U	2.9	23.5
0717	N	4/6/2011	6,841.65	4.36	4.4	6570 D	471	520	180	12	<5	4860 D	63 D	62 D	22 D	4.08	129	0.001	0.1	0.014	1	<0.05	20.6	<0.1	0.87	<0.001	<0.1	0.0423	12	25	37	0.8 U	2.9	21.1
0717	N	7/19/2011	6,841.37	3.97	4.21	6140 D	470	532	182	13	<5	4900 D	66 D	56 D	27 D	4.52	126	<0.001	0.09	0.018	0.98	<0.05	20.2	<0.1	0.92	<0.001	<0.1	0.188	15	24	39	1.5 U	1.2 U	19.4
0717	N	10/11/2011	6,841.16	4.14	4.39	6200 D	460	516	184	13	<5	4720 D	71 D	61 D	32 D	4.16	125	0.004	0.1	0.015	0.96	<0.05	21.2	<0.1	0.89	<0.001	<0.1	0.0261	13	22	35	1.4	2.3	18.8
0717	N	1/10/2012	6,840.92	4.31	4.14 H	6310 D	456	499	174	13	<5	4650 D	68 D	65 D	30 D	2.88	124	<0.001	0.11	0.015	1.07	<0.05	22.3	<0.1	0.91	0.002	<0.1	0.0348	12	21	54	0.1 U	2.7	22.1
0717	N	4/10/2012	6,840.62	4.25	4.12 H	6240 D	438	500	170	12	<5	4570 D	66 D	62 D	31 D	2.01	130	<0.01	0.1	0.016	1	<0.05	22.4	<0.1	0.86	<0.001	<0.1	0.0247	15	30	75	0.2 U	3.4	21.5
0717	N	7/17/2012	6,840.37	4.11	4.16 H	6190	474	517	189	14	<5	4390 D	69 D	61 D	30 D	4.4	134	<0.001	0.095	0.011	0.95	0.011	21.8	<0.1	0.9	0.002	<0.1	0.0229	15	22	59	0.3 U	3.4	35.7
0717	N	10/16/2012	6,840.24	4.22	4.07 H	6120	486	508	186 D	14	<5	4430 D	67 D	59 D	30 D	3.48	122	<0.001	0.102	0.016	0.89	0.01	22.1	<0.1	0.88	<0.001	<0.1	0.0194	12	34	46	0.6 U	2.4	13.2
0717	Dup	10/16/2012	no data	4.21	4.06 H	6090	504	510	181 D	14	<5	4410 D	67 D	58 D	30 D	6.4	120	<0.001	0.104	0.016	0.9	0.01	21.2	<0.1	0.9	<0.001	<0.1	0.0192	12	35	47	0.04 U	2.7	14.5
0717	N	1/8/2013	6,840.11	4.1	4.14 H	6190	480	508	192 D	14	<5	4260 D	64 D	56 D	31 D	4.28	118	<0.001	0.104	0.012	0.95	0.012	21.2	<0.1	0.89	<0.001	<0.1	0.0313	16	20	36	0.08 U	2.7	12.1
0717	Dup	1/8/2013	no data	4.07	4.13 H	6220	482	511	182 D	14	<5	4270 D	65 D	56 D	31 D	4.2	120	<0.001	0.105	0.011	0.94	0.011	20.9	<0.1	0.89	<0.001	<0.1	0.0316	16	21	37	1.3	2.2	12.3
0717	N	4/9/2013	6,840.09	4.14	4.20 H	6060	481	520	192	13	<5	4430 D	65 D	58 D	29 D	3.68	118	<0.001	0.093	0.011	0.94	0.011	21.4	<0.1	0.88	<0.001	<0.1	0.0229	20	34	54	0.2 U	2.5	26.5
0717	Dup	4/9/2013	no data	4.14	4.17 H	6100	489	528	194	12	<5	4440 D	64 D	57 D	29 D	4.32	121	<0.001	0.093	0.012	0.95	0.01	22.1	<0.1	0.9	<0.001	<0.1	0.022	18	37	55	0.4	2.5	26.7
0717	N	7/16/2013	6,839.77	4.04	4.03 H	6330	470	502	175	13	<5	4370 D	66 D	56 D	28 D	3.2	129	<0.001	0.11	0.012	0.9	0.011	20.1	<0.1	0.82	<0.001	<0.1	0.0267	13	44	57	0.6 U	2.4	13.9

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0717	Dup	7/16/2013	no data	4.02	3.98 H	6270	474	508	179	13	<5	4460 D	65 D	54 D	28 D	5.04	133	<0.001	0.112	0.008	0.91	0.01	20	<0.1	0.86	<0.001	<0.1	0.0292	13	43	56	0.6 U	2.3	13.9
0717	N	10/7/2013	6,839.74	4.12	4.00 H	6150	464	501	177	13	<5	4450 D	66 D	53 D	28 D	2.85	140	<0.001	0.114	0.018	0.97	0.01	20.3	<0.1	0.9	<0.001	<0.1	0.031	21	29	50	0.5	1.7	13.2
0717	Dup	10/7/2013	no data	4.12	3.99 H	6230	474	508	180	13	<5	4460 D	65 D	51 D	28 D	3.94	137	<0.001	0.109	0.018	0.96	0.011	20.4	<0.1	0.9	<0.001	<0.1	0.0304	21	29	50	0.3 U	2.5	15.6
0717	N	1/14/2014	6,839.42	4.15	3.95	6230	473	486	171	12	<5	4480	64	50	30	4.24	151	<0.001	0.129	0.013	0.91	0.013	19.8	<0.1	0.9	<0.001	<0.1	0.0398	15	27	42	0.4	2.4	28.2
0717	Dup	1/14/2014	no data	4.13	3.92	6440	472	485	170	12	<5	4500	64	51	31	5	149	<0.001	0.129	0.01	0.91	0.011	19.6	<0.1	0.9	<0.001	<0.1	0.0417	15	28	43	0.6	2	27.9
0717	N	4/7/2014	6,839.33	4.06	3.92 H	6250	466	500	178 D	11	<5	4680 D	69 D	47 D	27 D	3.65	157	<0.001	0.12	0.018	0.94	0.015	19.3	<0.1	0.89	<0.001	<0.1	0.0484	19	34	53	0.4 U	2.6	13.4
0717	Dup	4/7/2014	no data	4.06	3.90 H	6230	458	506	178 D	11	<5	4730 D	69 D	46 D	26 D	3.96	158	<0.001	0.12	0.018	0.94	0.012	18.9	<0.1	0.89	<0.001	<0.1	0.0521	22	39	61	0.5	2.1	13.7
0717	N	7/14/2014	6,839.24	3.93	3.83 H	6210	454	502	174 D	10	<5	4560 D	64 D	54 D	30 D	2.34	160	<0.001	0.136	0.018	0.98	0.016	19.9	<0.1	0.94	<0.001	<0.1	0.0734	12	19	31	0.9 U	2.3	19.7
0717	Dup	7/14/2014	no data	3.92	3.77 H	6290	446	508	175 D	10	<5	4720 D	65 D	52 D	28 D	4.44	163	<0.001	0.131	0.017	0.97	0.013	19.6	<0.1	0.93	<0.001	<0.1	0.0899	12	18	30	0.7	2.2	19.1
0717	N	10/14/2014	6,839.11	3.75	3.70 H	6470	458	492	165	8	<5	4630 D	68 D	52 D	26 D	5	171	<0.001	0.134	0.02	0.96	0.019	19.3	<0.1	0.94	<0.001	<0.1	0.12	15	43	58	5.6	3.7	26.4
0717	Dup	10/14/2014	no data	3.74	3.67 H	6520	460	495	158	8	<5	4680 D	69 D	52 D	28 D	5.2	166	<0.001	0.13	0.016	0.96	0.017	18.5	<0.1	0.92	<0.001	<0.1	0.117	14	41	55	5	3.1	29.2
0717	N	1/13/2015	6,839.04	3.58	3.55 H	6470	463	498	170	9	<5	4530 D	64 D	68 D	27 D	1.59	175	<0.001	0.131	0.022	0.96	0.03	19.2	<0.1	0.94	<0.001	<0.1	0.127	29	17	46	7.3	2.7	159
0717	Dup	1/13/2015	no data	3.58	3.50 H	6610	469	504	172	8	<5	4560 D	65 D	57 D	24 D	3.4	180	<0.001	0.13	0.022	0.97	0.019	19.4	<0.1	0.92	<0.001	<0.1	0.153	30	19	49	7.3	2.3	148
0717	N	4/14/2015	6,838.81	3.45	3.36 H	6680	453	487	168	7	<5	4590 D	66 D	48 D	20 D	3.54	184	<0.001	0.128	0.021	0.92	0.03	18.5	<0.1	0.92	<0.001	<0.1	0.185	16	13	29	6.4	4.5	312
0717	Dup	4/14/2015	no data	3.46	3.33 H	6720	462	498	173	7	<5	4680 D	67 D	50 D	20 D	4.04	186	<0.001	0.129	0.021	0.91	0.023	18.8	<0.1	0.92	<0.001	<0.1	0.18	16	13	29	10.1	4.5	304
0717	N	7/13/2015	6,838.73	3.42	3.25 H	6650	443	471	170	6	<5	4850 D	65 D	51 D	21 D	1.94	186	<0.001	0.126	0.019	0.94	0.037	18.4	<0.1	0.89	<0.001	<0.1	0.184	16	17	33	9.4	4.8	276
0717	Dup	7/13/2015	no data	3.35	3.29 H	6660	443	488	159	7	<5	4990 D	66 D	51 D	18 D	5.08	188	<0.001	0.117	0.019	0.92	0.025	17.8	<0.1	0.88	<0.001	<0.1	0.201	14	15	29	8	4.7	298
0717	N	10/12/2015	6,838.62	3.22	3.18 H	6920	456	498	170	5	<5	5100 D	72 D	44 D	20 D	<0.50	198	<0.001	0.127	0.019	0.9	0.027	17.6	<0.1	0.92	<0.001	<0.1	0.226	16	9.6	25.6	9.5	4.8	84.6
0717	Dup	10/12/2015	no data	3.20	3.27 H	6980	465	500	168	5	<5	4970 D	67 D	44 D	19 D	2.9	199	<0.001	0.127	0.018	0.89	0.025	17.4	<0.1	0.91	<0.001	<0.1	0.235	14	9.1	23.1	10.7	4.9	84.6
0717	N	1/11/2016	6,838.42	3.31	3.17 H	6810	462	436	150	8	<5	4910 D	69 D	47 D	19 D	<0.50	203	<0.001	0.137	0.015	0.89	0.052	16.4	<0.1	0.97	<0.001	<0.1	0.229	17	5.7	22.7	22.9	4	459
0717	Dup	1/11/2016	no data	3.37	3.20 H	6810	478	433	150	9	<5	5000 D	72 D	47 D	20 D	3.18	209	<0.001	0.141	0.015	0.88	0.03	16.3	<0.1	0.94	<0.001	<0.1	0.244	16	6.1	22.1	14.9	4.4	454
0717	N	4/12/2016	6,838.19	3.18	3.07 H	7130	470	503	172	4	<5	4920 D	61 D	43 D	20 D	3.72	216	<0.001	0.141	0.013	0.90 D	0.042	18.1	<0.1	0.94	<0.001	<0.1	0.277	22	5.3	27.3	16.9	4.9	513
0717	Dup	4/12/2016	no data	3.19	3.11 H	7170	471	504	172	4	<5	5020 D	62 D	41 D	20 D	4.44	212	0.001	0.138	0.014	0.90 D	0.026	18.1	<0.1	0.94	<0.001	<0.1	0.248	21	5.9	26.9	19	5	530
0717	N	7/19/2016	6,838.07	3.07	3.05 H	7350 D	469	496	171	3	<5	5260 D	64 D	42 D	20 D	3.2	216	<0.001	0.129	0.01	0.87	0.031	16.7	<0.1	0.89	<0.001	<0.1	0.355	9.2	3.4	12.6	17.2	1.8	164
0717	Dup	7/19/2016	no data	3.07	3.05 H	7220 D	471	497	170	3	<5	5690 D	62 D	42 D	20 D	3.3	213	<0.001	0.128	0.011	0.87	0.023	16.6	<0.1	0.9	<0.001	<0.1	0.292	8.8	7.9	16.7	27.6	2.1	150
0717	N	10/11/2016	6,837.98	3.04	2.98 H	7120 H	466	497	170	3	<5	5250 D	62 D	40 D	20 D	2.4	219	<0.001	0.133	0.012	0.91	0.031	16.9	<0.1	0.92	<0.001	<0.1	0.306	15	6.6	21.6	23.7	3.2	156
0717	Dup	10/11/2016	no data	3.05	2.98 H	7040 H	465	496	169	3	<5	5320 D	63 D	39 D	20 D	2.6	222	<0.001	0.134	0.011	0.93	0.022	17	<0.1	0.92	<0.001	<0.1	0.308	11	3.7	14.7	21.5	3	165
0717	N	1/17/2017	6,837.56	2.97	2.95 H	7110 D	459	485	161	2	<5	5500 D	64 D	38 D	20 D	1.5	216	<0.001	0.128	0.017	0.88	0.05	16.1	<0.1	0.89	<0.001	<0.1	0.363	18	1.8	19.8	21	4	148
0717	Dup	1/17/2017	no data	2.97	2.95 H	7060 D	459	485	161	2	<5	5560 D	64 D	39 D	20 D	1.6	226	<0.001	0.131	0.014	0.89	0.025	16.6	<0.1	0.91	<0.001	<0.1	0.315 D	15	1.1 U	15	24.7	3.2	140
0717	N	4/11/2017	6,836.33	2.99	3.03 H	6620 D	452	489	174 D	<1	<5	5320 D	62 D	38 D	18 D	0.53	254 D	0.001	0.149	0.017	0.93	0.056	18.2	<0.1	0.99	<0.001	<0.1	0.374	8.6	0.33 U	8.6	25	3.3	135
0717	Dup	4/11/2017	no data	2.99	3.03 H	7000 D	454	495	170 D	1	<5	5440 D	63 D	39 D	19 D	0.59	258 D	<0.001	0.148	0.016	0.92	0.031	18	<0.1	0.95	<0.001	<0.1	0.383	8.9	-0.2 U	8.9	25	3.8	145
0717	N	7/18/2017	6,836.07	3.19	3.11 H	7650 D	463	506	181	1	<5	5160 D	64 D	40 D	19.2 D	<0.50	274	<0.001	0.13	0.019	1.09	0.039	20.2	<0.1	1.22	<0.001	<0.1	0.516	12.6	0.6 U	12.6	19.8	3.4	30.8
0717	Dup	7/18/2017	no data	3.21	3.11 H	7470 D	455	498	176	1	<5	5550 D	64 D	38 D	19.4 D	<0.50	273	<0.001	0.132	0.018	1.07	0.029	19.9	<0.1	1.16	<0.001	<0.1	0.512	13.3	0.7 U	13.3	17.1	4.7	33
0717	N	10/9/2017	6,835.99	3.09	3.20 H	7300 D	445	496	163 D	2	<5	5230 DH	57 DH	39 D	17.6 D	<0.50	285	<0.001	0.156	0.019	1.16	0.036	20.2	<0.1	1.26	<0.001	<0.1	0.619	12	7	19	19.4 U	-3 U	24.4
0717	Dup	10/9/2017	no data	3.07	3.20 H	7270 D	447	496	161 D	2	<5	5240 DH	56 DH	40 D	18.6 D	0.52	282	<0.001	0.163	0.019	1.14	0.028	20.1	<0.1	1.27	<0.001	<0.1	0.615	17.1	5.9	23	17.0 U	-1 U	23.8
0717	N	1/16/2018	6,835.48	3.15	3.28 H	7550 D	450	509	178 D	3	<5	5530 D	58 D	36 D	15.0 D	0.64	315 D	<0.001	0.164	0.021	1.12	0.045	19.9 D	<0.001	1.28	<0.001	<0.01	0.656	5.8	5.9	11.7	10.2	3.7	28
0717	Dup	1/16/2018	no data	3.13	3.27 H	7590 D	452	511	179 D	3	<5	5530 D	57 D	33 D	14.7 D	0.66	319 D	<0.001	0.166	0.02	1.12	0.024	19.8 D	<0.001	1.28	<0.001	<0.01	0.666	6.3	8.6	14.9	13.4	4.9	28.6
0717	N	4/10/2018	6,835.30	3.33	3.36 H	7390 D	430	484	159 D	3	<5	5150 D	57 D	34 D	11.4 D	0.58	290	0.001	0.198	0.021	1.19	0.033	20	0.001	1.32	<0.001	<0.01	0.666	10.3	9.3	19.6	8	3	39.2
0717	Dup	4/10/2018	no data	3.44	3.35 H	7590 D	443	488	167 D	4	<5	5100 D	56 D	35 D	11.8 D	0.65	293	<0.001	0.202	0.021	1.19	0.025	19.7	0.002	1.31	<0.001	<0.01	0.68	9.9	10.1	20	10.5	2.7	40.5
0717	N	7/16/2018	6,835.13	3.47	3.40 H	7880 D	422	486	163 D	3	<5	5210 D	54 D	33 D	7.9 D	0.63	337 D	<0.02	0.148	0.022	1.11	0.027	18.6	<0.001	1.37	0.002	<0.01	0.755	7.5	11.6	19.1	7.6	3.1	40.2
0717	Dup	7/16/2018	no data	3.41	3.40 H	7720 D	430	568	224 D	3	<5	5430 D	55 D	33 D	7.8 D	0.65	326 D	<0.02	0.159	0.021	1.11	0.024	18.6	<0.001	1.33	0.002	<0.01	0.74	9.1	15.5	24.6	6.3	2.7	42.4
0717	N	10/8/2018	6,835.45	3.34	3.42 H	7210 D	474	492	159 D	5	<5	5510 D	57 D	34 D	5.55 D	0.56	277 D	<0.001	0.186	0.021	1.13	0.041	17.3	0.002	1.26	<0.001	<0.01	0.741	6.5	9.4	15.9	4.8	1.8	15
0717	Dup	10/8/2018	no data	3.35	3.43 H	7300 D	470	502	166 D	5	<5	5650 D	57 D	32 D	5.50 D	0.61	273 D	<0.001	0.192	0.021	1.17	0.021	17.6	<0.001	1.29	<0.001	<0.01	0.775	7.2	8	15.2	4.2	2.2	16.3
0717	N	1/5/2019	6,835.12	3.54	3.45 H	7110 DH	405	454	166 D	6	<5	4970 D	50 D	28 D	3.43	0.64	277	no data	0.205	0.023	1.11	0.04	17.8	0.002	1.35	no data	<0.01	0.808	16.8	9.4	26.2	2.7	2	23.7
0717	Dup	1/5/2019	6,904.53	3.50	3.45 H	7110 DH	413	459	167 D	6	<5	4950 D	51 D	35 D	3.1	0.67	265	no data	0.2	0.021	1.05	0.021	17.2	<0.001	1.3	no data	<0.01	0.774	21.6	11.4	33	3.9	1.7	22.9
0717	N	4/15/2019	6,835.03	3.53	3.46	6500	468	389	155	6	<5	5450	50	27	1.9	<0.50	260	0.006	0.18	0.019	1.06	0.025	16.4	<0.001	1.3	0.011	<0.01	0.743	9.7	9.1	18.8	2.7	2.1	22
0717	Dup	4/15/2019	6,904.49	3.54	3.46	6860	453	379	147	5	<5	5530	50	28	1.71	0.67	284	0.006	0.17	0.019	1.06	0.018	16.5	<0.001	1.2	0.009	<0.01	0.75	13.7	11.5	25.2	3.6	1.4	23.3
0717	N	7/23/2019	6,834.88	3.48	3.5 H	6660 DH	433	428	152	6	<5	4750 D	46 D	24 D	0.67	0.29 JH	279 D	0.008	0.199	0.017	1.07	0.021	16.8 D	0.002	1.12	0.011	<0.01	0.769	7.7	14.3	22	2.3	1.8	13.9
0717	Dup	7/23/2019	6,904.32	3.52	3.5 H	6640 DH	422	415	144	6	<5	4650 D	46 D	25 D	0.57	0.6 JH	271 D	0.007	0.186	0.017	1.02	0.019	15.3 D	<0.001	1.1	0.011	<0.01	0.75	7.6	15.9	23.5	1.8	1.7	17.1
0717	N	10/1/2019	6,835.11	3.42	3.45 H	6420 DH	481	423	165	8	<5 H	4600 D	47	21 D	0.23	<0.50 J	235 D	0.007	0.166	0.016	0.98	0.016	14.9 D	<0.001	1.07	0.009	<0.01	0.714	10.1	13.7	23.8	2.8	1.8	21
0717	Dup	10/1/2019	6,833.80	3.58	3.5 H	6410 DH	467	424	160	8	<5	4580 D	45 D	21 D	0.2	0.83	238 D	0.006	0.164	0.016	0.976	0.019	15.1 D	<0.001	1.07	0.009	<0.01	0.723	10	13.3	23.3	2.6	2.1	17.7
0719	N	4/9/2001	6,845.30	2.94	3.01	5850	482	461	134	4.3	< 0.1	3750	32.2	5.14	0.11	< 1	78.8	0.016	0.07	< 0.005	0.8	< 0.05	8.7	0.34	1.1	< 0.001	< 0.1	0.397	22.1	5.9	28	30.5	< 1	55.3
0719	N	7/11/2001	6,845.30	2.70	2.94	6180	527	518	144	3.5	< 0.1	4000	43.8	3.86	< 0.1	< 1	73.2	0.015	0.08	< 0.005	0.71	< 0.05	8.43	0.46	1.01	< 0.001	< 0.1	0.454	24	2.4	26.4	40.9	< 1	46.6
0719	N	10/8/2001	6,846.70	2.75	2.90	5960	450	440	108	3.8	< 0.1	3300	51.6	2.8	< 0.1	< 1	49.9	0.013	0.04	< 0.005	0.6	< 0.05	6.85	0.25	0.85	< 0.001	< 0.1	0.387	14	1.1	15.1	40.6	< 1	42.9
0719	N	1/7/2002	6,846.50	3.00	2.80	5680	496	463	115	6	< 0.1	3760	57	2.9	< 0.1	< 1	47.4	0.01	0.05	0.009	0.68	< 0.05	8.21	0.2	0.98	< 0.001	< 0.1	0.27	15.5	1.9	17.4	28	< 1	29
0719	N	4/8/2002	6,845.79	2.90	2.99	5520	470	440	129	5.7	< 0.1	3470	39.9	3.42	< 0.1	< 1	51	0.005	0.05	0.005	0.76	< 0.05	8.64	0.2	1.08	< 0.001	< 0.1	0.258	12.2	< 1	12.2	17.1	< 1	19.6
0719	N	7/15/2002	6,845.38	2.78	3.00	5420	563	517	123	7.6	< 0.1	4020	33.9	3.59	< 0.1	< 1	35.4	0.005	0.04	< 0.005	0.59	< 0.05	6.7	< 0.1	0.73	< 0.001	< 0.1	0.191	6.8	4.6	11.4	9	< 1	14.9
0719	N	10/14/2002	6,845.95	2.85	3.06	4630	514	491	134	10.5	< 0.1	3720	33.4	3.76	< 0.1	< 1	25	0.005	0.05	< 0.005	0.65	< 0.05	7.89	< 0.1	0.9	< 0.001	< 0.1	0.086	5.4	2	7.4	< 0.2	< 1	11.5
0719	N	1/13/2003	6,845.26	2.96	3.05	5340	531	509	120	11	< 0.1	3610	25.2	3.4	< 0.1	< 1	26.9	0.004	0.04	< 0.005	0.66	< 0.05	7.67	< 0.1	0.84	< 0.001	< 0.1	0.0691	7.6	< 1	7.6	1.2	< 1	10
0719	N	4/15/2003	6,845.54	3.26	2.88	5350	477	477	149	15.7	< 0.1	3460	38.8	3.6	< 0.1	< 1	25.8	0.002	0.04	< 0.005	0.72	< 0.05	8.54	< 0.1	0.96	< 0.001	< 0.1	0.0604	8.3	9.7	18	0.7	< 1	23.3

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0719	N	7/14/2003	6,844.64	3.09	2.97	5330	490	456	141	13.5	< 0.1	3240	36.3	3.1	< 0.1	< 1	21.4	< 0.001	0.04	< 0.005	0.61	< 0.05	7.48	< 0.1	0.83	< 0.001	< 0.1	0.0552	6.5	< 1	6.5	0.4	< 1	6.4
0719	N	10/13/2003	6,844.38	3.09	3.03	5340	526	506	143	12.7	< 0.1	3720	35.2	3.56	< 0.1	< 1	20.7	< 0.001	0.04	< 0.005	0.55	< 0.05	7.13	< 0.1	0.72	< 0.001	< 0.1	0.0665	5.1	7.7	12.8	0.8	< 1	16.4
0719	N	1/12/2004	6,844.00	3.17	2.87	5240	537	505	129	12.8	< 1.0	3580	38.8	3.65	< 0.10	< 1.0	2.3	< 0.001	0.04	< 0.005	0.48	< 0.05	7.4	< 0.1	0.06	< 0.001	< 0.1	0.0784 D	6.2	6.1	12.3	< 0.2	< 1.0	16.8
0719	N	4/12/2004	6,843.88	3.05	3.08	5060	482	438	126	11.4	< 1	3440	40.8	3.31	< 0.1	< 1	23.6	< 0.001	0.04	< 0.005	0.37	< 0.05	6.49	< 0.1	0.5	< 0.001	< 0.1	0.0878 D	4.2	7.9	12.1	< 0.2	< 1	8.1
0719	N	7/19/2004	6,843.59	3.37	3.02	5070	537 D	432 D	144	10.5	< 1	3180 D	36	2.8 D	< 0.10	< 1.0	17.7	< 0.001	0.03	< 0.005	0.33	< 0.05	6.11	< 0.1	0.42	< 0.001	< 0.1	0.0642 D	4.7	6.9	11.6	< 0.2	< 1.0	15.5
0719	N	10/11/2004	6,843.62	3.42	3.09	4920	496 D	440 D	136	9.8	< 1	3200 D	34	2.54	< 0.10	< 1.0	16.5	< 0.001	0.03	< 0.005	0.34	< 0.05	5.95	< 0.1	0.42	< 0.001	< 0.1	0.0578	4.7	9.1	13.8	0.7	< 1.0	9.9
0719	N	1/10/2005	no data	3.32	3.38	4850	513 D	428 D	135	9.9	< 1	3090 D	36	1.9	< 0.1	< 1.0	15.3	< 0.001	0.02	< 0.005	0.35	< 0.05	6.28	< 0.1	0.46	< 0.001	< 0.1	0.0755	3.2	5.1	8.3	< 0.2	< 1.0	9
0719	N	4/11/2005	6,842.19	3.51	3.37	4580	531	423	136	9.8	< 1	3280	33	1.5	< 0.1	< 1.0	19.3	< 0.001	0.02	< 0.005	0.3	< 0.05	5.79	< 0.1	0.37	< 0.001	< 0.1	0.112	6.9	7.7	14.6	< 0.2	< 1.0	6.1
0719	N	7/18/2005	6,841.57	3.31	3.46	4640	534 D	397 D	130	9.8	< 1	3000 D	31	1.2	< 0.1	< 1.0	17.3	< 0.001	0.02	< 0.005	0.23	< 0.05	4.96	< 0.1	0.33	< 0.001	< 0.1	0.136	3.4	4.4	7.8	< 0.2	< 1.0	5.8
0719	N	10/10/2005	6,840.91	3.73	3.82	4540	494 D	709 D	157	12.5	< 1	4160 D	30	1.25	< 0.1	< 1.0	0.2	0.02	0.01	< 0.005	0.26	< 0.05	7.12	1.3	0.3	< 0.001	< 0.1	0.0994	4.3	5.4	9.7	< 0.2	< 1.0	6.4
0719	N	1/16/2006	6,840.44	3.99	4.17	4330	510 D	393 D	116	9.8	< 1	2940 D	29	1.84	< 0.1	< 1.0	6.5	< 0.001	< 0.01	< 0.005	0.17	< 0.05	4.06	< 0.1	0.22	< 0.001	< 0.1	0.0597	2.6	6.2	8.8	< 0.2	< 1.0	3
0719	N	4/10/2006	6,839.92	4.05	3.93	4310	573 D	412 D	116	10.3	< 1	3090 D	35	1.13	0.2	< 1.0	5.5	< 0.001	< 0.01	< 0.005	0.18	< 0.05	4.23	< 0.1	0.2	< 0.001	< 0.1	0.0392	2.6	5.9	8.5	< 0.2	< 1.0	2.4
0719	N	7/24/2006	6,839.44	4.04	4.13	4050	527 D	381 D	128	10.2	< 1	2930 D	28	1.08	< 0.1	< 1.0	2.6	< 0.001	< 0.01	< 0.005	0.16	< 0.05	4.06	< 0.1	0.18	< 0.001	< 0.1	0.022	2.5	5.1	7.6	< 0.2	< 1.0	2.4
0719	N	10/9/2006	6,839.21	4.08	4.22	4090	519 D	379 D	119	9.9	< 1	2790 D	26	1.05	< 0.1	< 0.5	2.3	< 0.001	< 0.01	< 0.005	0.16	< 0.05	4.08	< 0.1	0.18	< 0.001	< 0.1	0.0162	3.1	4.2	7.3	< 0.2	< 1	2.5
0719	N	1/15/2007	6,838.61	4.95	5.25 H	4080 H	507 D	369 D	113	9.4	<1	2850 D	28	0.73	<0.1	<0.5	1.2	<0.001	<0.01	<0.005	0.12	<0.05	3.7	<0.1	0.16	<0.001	<0.1	0.0074	2	4.8	6.8	<0.2	<1	3.5
0719	N	4/17/2007	6,838.11	6.53	5.08	4220	504 D	381 D	110	9.4	7	2900 D	28	0.81	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	0.11	<0.05	3.42	<0.1	0.14	<0.001	<0.1	0.0013	2.8	9.7	12.5	<0.2	<1	3.2
0719	N	7/17/2007	6,837.96	4.47	5.03	4130	519 D	394 D	123	9.7	7	2960 D	27	1.17	<0.1	<0.5	0.8	0.003	<0.01	<0.005	0.13	<0.05	3.33	<0.1	0.16	<0.001	<0.1	0.0092	2.7	9.3	12	<0.2	<1	4.3
0719	N	10/9/2007	6,837.50	4.17	4.40	4250	496 D	371 D	117	9.8	<1	2730 D	29	0.62	0.1	<0.5	0.9	0.001	<0.01	<0.005	0.19	<0.05	4.49	<0.1	0.22	<0.001	<0.1	0.0103	2	8.7	10.7	<0.2	<1	4.2
0719	N	1/22/2008	6,837.80	3.89	3.83	4390	476 D	407 D	135	13	< 1	2890 D	34	0.89	< 0.1	< 0.5	1.6	0.003	< 0.01	< 0.005	0.53	< 0.05	5.32	< 0.1	0.56	< 0.001	< 0.1	0.0221	4.8	12.6	17.4	< 0.2	8.1	5.3
0719	N	4/15/2008	6,837.56	3.84	3.59	4420	510	426	138 D	12	< 1	3490 D	27	0.5	< 0.1	< 0.50	1.7	< 0.001	< 0.01	< 0.005	0.56 D	< 0.05	5.74	< 0.1	0.6	< 0.001	< 0.1	0.0184	2.5	11.7	14.2	0.4	<0.7 U	5.1
0719	N	7/15/2008	6,837.36	3.94	3.86	4650	559	468	146 D	12	< 1	3060 D	29	0.34	< 0.1	< 0.5	2.2	< 0.003	< 0.01	< 0.005	0.55	< 0.05	5.67	< 0.1	0.6	< 0.001	< 0.1	0.0176	4.1	12	16.1	0.2 U	2.4 U	5.4
0719	N	10/13/2008	6,837.08	3.87	3.8	4880	513	428	134 D	12	< 1	3430 D	26	1.1 D	< 0.1	< 0.5	1.4	< 0.001	< 0.01	< 0.005	0.68	< 0.05	6.19	< 0.1	0.69	< 0.001	< 0.1	0.0153	3.7	8.4	12.1	0.2	1.4 U	7.7
0719	N	1/19/2009	6,836.28	3.67	3.46	4850 H	493	419	142	13	<1	3230 D	31	0.14	0.2	<0.5	22	<0.001	<0.01	<0.005	0.72	<0.05	6.68	<0.1	0.86	<0.001	<0.1	0.127	4.2	14	18.2	0.1 U	<0.7 U	7.7
0719	N	4/14/2009	6,836.18	3.77	3.62	4860	459 D	432 D	145 D	23	<1	3270 D	30	0.43	0.1	<0.50	12.4	<0.001	<0.01	<0.005	0.7	<0.05	6.43	<0.1	0.75	<0.001	<0.1	0.077	2.7	11	13.7	0.1 U	<2 U	7.6
0719	N	7/14/2009	6,835.58	3.64	3.57	5090	483	454	134	12	<1	3620 D	33	0.44	<0.1	<0.50	14.2	<0.001	<0.01	<0.005	0.77	<0.05	7.08	<0.1	0.8	<0.001	<0.1	0.0966	3.3	12	15.3	<0.04 U	1.0 U	6.9
0719	N	10/13/2009	6,835.23	3.94	3.66	5560 H	531 D	548	142 D	13	<1	3960 D	31	0.97	<0.1	<0.50	2.4	<0.001	<0.01	<0.005	0.61	<0.05	6.26	<0.1	0.67	<0.001	<0.1	0.0227	3.2	9.2	12.4	0.04 U	<1 U	4
0719	N	1/12/2010	6,834.58	3.77	3.93	5230 D	515 D	574	146 D	14	<5	3970 D	26	0.8	<0.10	<0.50	5.7	<0.001	<0.01	<0.005	0.61	<0.05	6.48	<0.1	0.68	<0.001	<0.1	0.0365	3.1	14	17.1	0.2 U	<0.2 U	5.1
0719	N	4/13/2010	6,834.48	4.51	4	5590 D	477	582	137	12	<5	4060 D	32	1.07	<0.1	<0.50	8.8	<0.001	<0.01	<0.005	0.69	<0.05	7.06	<0.1	0.8	<0.001	<0.1	0.0584	4.1	8.4	12.5	0.05 U	0.5 U	5.2
0719	N	7/20/2010	6,834.03	4.59	3.65	5770 DH	488	638	138	13	<5	3920 D	29 D	1.19	<0.1	<0.50	3.6	<0.001	<0.01	<0.005	0.53	<0.05	6.28	<0.1	0.55	<0.001	<0.1	0.0204	6	5.1	11.1	0.1 U	0.5 U	5.9
0719	N	10/12/2010	6,833.88	4.62	3.71	5470 D	496	614	149	13	<5	3890 D	28 D	1.17	<0.1	<0.50	1.5	<0.001	<0.01	<0.005	0.42	<0.05	5.6	<0.1	0.47	<0.001	<0.1	0.0114	5.9	8.3	14.2	0.1 U	<1 U	5.4
0719	N	1/11/2011	6,833.68	4.97	3.99	5530 D	489	616	136	13	<5	4020 D	32 D	0.86	<0.1	<0.50	0.6	<0.001	<0.01	<0.005	0.4	<0.05	5.75	<0.1	0.46	<0.001	<0.1	0.0061	5.4	10	15.4	<0.02 U	0.7 U	5.9
0719	N	4/12/2011	6,833.33	3.78	3.74	5780 D	493	631	147	14	<5	3970 D	30 D	0.85	<0.1	<0.50	0.2	<0.001	<0.01	<0.005	0.38	<0.05	5.92	<0.1	0.41	<0.001	<0.1	0.004	5.4	13	18.4	<0.03 U	1.3 U	6.1
0719	N	7/19/2011	6,832.98	3.89	3.92	5520 D	480	598	145	14	<5	3900 D	30 D	0.9 D	<0.5	<0.50	0.4	<0.001	<0.01	<0.005	0.4	<0.05	5.5	<0.1	0.53	<0.001	<0.1	0.0059	5.2	14	19.2	0.06 U	<0.6 U	6
0719	N	10/11/2011	6,832.97	4.53	4.14	5530 D	474	610	145	14	<5	3960 D	31 D	1.2 D	<0.5	<0.50	0.3	<0.001	<0.01	<0.005	0.36	<0.05	5.56	<0.1	0.45	<0.001	<0.1	0.0058	4.9	12	16.9	0.04 U	<0.3 U	3.9
0719	N	1/10/2012	6,832.63	3.94	3.90 H	5490 D	497	588	135	13	<5	3970 D	30 D	0.76	<0.1	<0.50	0.3	<0.001	<0.01	<0.005	0.38	<0.05	5.68	<0.1	0.46	0.001	<0.1	0.0067	3.3	11	25.3	0.07 U	0.01 U	5
0719	N	4/10/2012	6,832.43	5.16	3.97 H	5990 D	481	664	138	13	<5	4010 D	31 D	0.81	<0.1	<0.50	0.3	<0.01	<0.01	<0.005	0.25	<0.05	5.16	0.3	0.34	<0.001	<0.1	0.0048	4.3	9.7	23.7	0.9	0.9 U	4.1
0719	N	7/17/2012	6,832.18	5.59	5.29 H	6120	524	686	163	16	11	4070 D	32 D	0.78	<0.1	<0.50	0.2	<0.001	<0.001	<0.005	0.28	0.002	5.63	0.2	0.33	0.001	<0.1	0.0034	3.9	7.7	19.3	0.3	0.3 U	5.7
0719	N	10/16/2012	6,832.18	5.76	5.18 H	5900	536	674	149 D	14	14	4180 D	30 D	0.7	<0.1	<0.50	0.1	<0.001	<0.001	<0.005	0.31	<0.001	6.04	0.1	0.39	<0.001	<0.1	0.0029	3.4	15	18.4	0.3	0.7 U	4.5
0719	N	1/8/2013	6,832.03	5.65	5.44 H	5710	530	692	151 D	15	12	4120 D	29 D	0.72	0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.3	<0.001	5.84	<0.1	0.37	<0.001	<0.1	0.0023	5	7.8	12.8	0.2 U	0.02 U	4.3
0719	N	4/9/2013	6,832.31	5.1	5.70 H	5670	528	715	162	14	13	4100 D	28 D	0.54	0.2	<0.50	0.7	<0.001	<0.001	<0.005	0.32	<0.001	5.93	0.2	0.4	<0.001	<0.1	0.0055	5.6	15	20.6	0.2	-0.3 U	5.9
0719	N	7/16/2013	6,831.76	5.05	5.79 H	5940	510	693	149	14	7	4030 D	29 D	0.21	0.4	<0.50	0.3	<0.001	<0.001	<0.005	0.29	<0.001	5.68	<0.1	0.38	<0.001	<0.1	0.0029	5	17	22	0.3	0.2 U	5.1
0719	N	10/14/2013	6,831.67	5.36	5.32 H	5790	510	691	149	14	8	4180 D	29 D	0.13	0.5 D	<0.50	2	<0.001	0.002	<0.005	0.31	0.002	5.96	<0.1	0.41	<0.001	<0.1	0.0206	5.9	13	18.9	0.09	0.4 U	8.7
0719	N	1/13/2014	6,831.56	5.28	5.46	5870	497	670	143	13	<5	4170	29	<0.05	0.6	<0.50	0.8	<0.001	<0.001	<0.005	0.28	<0.001	5.62	<0.1	0.4	<0.001	<0.1	0.0093	4.6	12	16.6	0.1 U	0.4	7.4
0719	N	4/7/2014	6,831.44	5.10	5.38 H	5750	494	681	149 D	13	<5	4060 D	32 D	<0.05	0.4	<0.50	1.3	<0.001	0.001	<0.005	0.3	<0.001	5.37	<0.1	0.39	<0.001	<0.1	0.0171	7.1	16	23.1	0.08 U	0.5 U	5.6
0719	N	7/14/2014	6,831.48	5.00	5.06 H	5830	477	690	149 D	14	<5	4120 D	29 D	<0.05	0.4	<0.50	2	<0.001	0.002	<0.005	0.3	<0.001	5.78	<0.1	0.4	<0.001	<0.1	0.0255	5.2	8.7	13.9	0.3	0.4 U	6.7
0719	N	10/13/2014	6,831.39	5.24	5.08 H	6060	479	687	144	13	<5	4170 D	31 D	<0.05	0.4	<0.50	3.2	<0.001	0.002	<0.005	0.29	<0.001	5.6	<0.1	0.37	<0.001	<0.1	0.0327	7.1	21	28.1	0.4	0.3 U	7.9
0719	N	1/12/2015	6,831.44	5.35	5.08 H	5810	470	684	144	12	<5	4290 D	31 D	<0.05	0.4	<0.50	3.2	0.001	0.002	<0.005	0.31	<0.001	5.83	<0.1	0.42	<0.001	<0.1	0.0382	6	13	19	0.2	0.1 U	15.3
0719	N	4/13/2015	6,831.20	5.05	4.64 H	6000	447	674	142	13	<5	4370 D	32	0.37	<0.1	<0.50	2.7	<0.001	0.002	<0.005	0.26	0.001	5.27	<0.1	0.35	<0.001	<0.1	0.0356	5	12	17	0.7 U	0.04 U	24.5
0719	N	7/13/2015	6,831.37	5.08	5.21 H	5140	456	658	146	12	6	3580 D	37 D	0.1	0.3	<0.50	2.9	0.003	0.002	<0.005	0.29	0.001	5.61	<0.1	0.37	<0.001	<0.1	0.0371	4.5	15	19.5	0.3	0.0 U	19.6
0719	N	10/12/2015	6,831.15	5.07	5.04 H	6180	478	724	150	13	<5	4350 D	33 D	0.31	0.2	<0.50	1.6	<0.001	0.001	<0.005	0.25	<0.001	5.46	<0.1	0.34	<0.001	<0.1	0.0256	3.9	10	13.9	0.3	1.3 U	6.3
0719	N	1/12/2016	6,830.91	5.55	5.58 H	6050	482	727	151	17	6	4250 D	34 D	0.47	<0.1	<0.50	0.2	<0.001	<0.001	<0.005	0.27	<0.001	5.5	<0.1	0.35	<0.001	<0.1	0.0117	4.4	7.6	12	0.07 U	-0.3 U	23.8
0719	N	4/12/2016	6,831.05	5.59	5.37 H	6150	483	737	149	13	<5	4220 D	30 D	0.29	0.2	<0.50	0.8	<0.001	<0.001	<0.005	0.25 D	<0.001	5.91	<0.1	0.35	<0.001	<0.1	0.0183	5.3	4.3	9.6	0.6	0.3 U	27.3
0719	N	7/19/2016	6,830.92	5.68	5.72 H	6170 D	474	723	145	13	6	4620 D	32 D	0.52	<0.1	<0.50	0.1	<0.001	<0.001	<0.005	0.24	<0.001	5.47	<0.1	0.32	<0.001	<0.1	0.005	3.6	9.8	13.4	0.8	0.2 U	6.6
0719	N	10/11/2016	6,830.98	5.76	5.91 H	6080 H	478	734	146	13	19	4330 D	32 D	0.56	<0.1	<0.50	0.3	<0.001	<0.001	<0.005	0.23	<0.001	5.53	<0.1	0.3	<0.001	<0.1	0.0032	4.4	15	19.4	0.5	0.5 U	7.1
0719	N	1/17/2017	6,830.89	5.80	5.78 H	5960 D	456	701	139	12	11	4360 D	32 D	0.4 D	0.09	<0.50	0.2	<0.001	<0.001	<0.005	0.24	<0.001	5.26	<0.1	0.38	<0.001	<0.1	0.0072	3.8	9.8	13.6	0.2 U	0.9 U	5.9
0719	N	4/11/2017	6,831.08	5.45	5.59 H	6070 D	441	677	138 D	12	8	4230 D	30 D	0.42	0.03	<0.50	0.3	<0.001	<0.001	<0.005	0.24	<0.001	5.81	<0.1	0.33	<0.001	<0.1	0.0103	5.3	16	21.3	0.2 U	1.1 U	6.3
0719	N	7/18/2017	6,830.74	5.71	5.65 H	6130 D	465	709	150	12	8	4040 D	30 D	0.41	0.07	<0.50	0.6	<0.001	<0.001	<0.005	0.26	<0.001	6.4	0.2	0.38	<0.001	<0.1	0.0201	5.2	9.3	14.5	0.2	1.4	5.8
0719	N	10/10/2017	6,830.55	5.27	5.68 H	6100 D	457	698	145 D	12	17	4390 D	34 D	0.51	0.02	<0.50	0.3	<0.001	<0.001	<0.005	0.27	<0.001	6.35	<0.1	0.3	<0.001	<0.1	0.0166	3.8	11.7	15.5	0.4	1.3 U	4.9
0719	N	1/17/2018	6,830.58	6.02	5.71 H	5960 DH	447	676	139 D	12	28	4410 D	31 D	0.45	<0.1	<0.50	2.11 D	0.002	0.001	<0.001	0.258	0.005	6.00 D	0.226	0.359	<0.001	<0.01	0.0267	3.6	10.2	13.8	0.3	0.7 U	7.2
0719	N	4/10/2018	6,830.49	5.64	5.86 H	6300 D	471	697	144 D	14	36	4270 D	30 D	0.41	0.02	<0.50	3.42	<0.001	0.002	<0.001	0.282	0.007	6.22	0.607	0.388	<0.001	<0.01	0.0341	4.6	13.6	18.2	0.4	0.5 U	9.5

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0719	N	7/17/2018	6,830.47	5.73	5.71 H	6310 DH	461	667	138	11	45	4520 D	30 D	0.43	0.03	<0.50	1.15	<0.02	<0.001	<0.001	0.225	0.003	5.79	0.452	0.323	0.001	<0.01	0.0175	5.5	10.1	15.6	0.2	0.6 U	4
0719	N	10/9/2018	6,830.65	5.26	5.73 H	6410 D	488	731	147 D	12	44	4580 D	30 D	0.45	0.03	<0.50	2.93	0.002	0.002	<0.001	0.254	0.002	5.84	0.408	0.341	<0.001	<0.01	0.0452	4.8	13.2	18	0.3	0.5 U	9.1
0719	N	1/15/2019	6,830.47	5.75	5.83 H	6310 D	448	715	155 D	13	57	4380 D	29 D	0.48	0.03	<0.50	1.7	no data	0.001	<0.001	0.211	<0.001	6.02	0.561	0.342	no data	<0.01	0.0323	5.2	9.7	14.9	0.1 U	0.6 U	6.7
0719	N	4/15/2019	6,835.03	5.24	5.17 H	6430 D	441	625	138	12	5	4460 D	29 D	0.41	0.05	<0.50	5.5 D	0.01	0.003	<0.001	0.247	0.001	6.2 D	0.434	0.344	<0.001	<0.01	0.117	6	14.4	20.4	0.2	0.3 U	14.1
0719	N	7/23/2019	6,830.29	5.71	5.73 H	6470 DH	457	742	141	12	41	4370 D	28 D	0.41	0.04	<0.50	2.2 D	0.005	0.001	<0.001	0.202	<0.001	5.75 D	0.678	0.313	<0.001	<0.01	0.0556	4.9	10.6	15.5	0.03 U	0.9	7.2
0719	N	10/8/2019	6,830.35	5.22	5.48 H	6320 DH	494	740	154	13	25	4550 D	30	0.43	0.03	<0.50	4.2 D	0.005	0.004 D	<0.001	0.248	<0.003 D	6.08 D	0.541 D	0.341	<0.001	<0.01	0.121 D	4.9	12.5	17.4	0.2	1 U	9.1
0009 D	N	7/18/1989	6,910.50	4.60	4.56	7365	465	963	158	10.7	1	5061	100	0.79	2.5	< 1	43	< 0.001	< 0.05	< 0.01	0.65	0.08	14	< 0.1	0.86	< 0.001	< 0.1	0.0077	4.4	2.9	7.3	1.1	4.5	17.6
0009 D	N	10/12/1989	6,908.00	4.40	4.10	8276	439	1013	159	13.4	0	5508	108	0.87	2.4	< 1	90	< 0.001	< 0.05	< 0.01	0.94	0.37	17	< 0.01	1.2	< 0.001	< 0.1	0.018	2.4	1.8	4.2	< 0.02	1.5	3.5
0009 D	N	1/4/1990	6,902.30	4.40	4.04	8330	431	940	160	10	< 1	5597	94.4	0.6	0.55	< 1	96	< 0.001	< 0.05	0.01	1	0.14	18	< 0.1	1.4	< 0.001	< 0.1	0.012	4.7	< 1	4.7	< 0.2	6.7	1.9
0009 D	N	4/10/1990	6,910.00	4.40	4.41	7222	447	856	160	9.1	< 1	4688	99.1	1.08	6.3	< 1	46	< 0.001	< 0.05	0.01	0.75	0.12	15	< 0.1	0.97	< 0.001	< 0.1	0.0395	2.7	2.2	4.9	< 0.2	1.5	3
0009 D	N	7/10/1990	6,904.10	4.40	4.14	8932	473	1012	153	9.5	< 1	6126	101	0.37	0.26	< 1	155	< 0.001	< 0.05	< 0.01	0.83	0.13	19.3	< 0.1	1.56	< 0.001	< 0.1	0.017	5.1	5.2	10.3	< 0.2	< 1	5
0009 D	N	10/9/1990	6,903.70	4.30	4.21	9372	435	1094	172	9.7	< 1	6551	124	0.24	0.1	< 1	153	< 0.001	< 0.05	0.02	1.52	0.13	23	< 0.1	2.13	< 0.001	< 0.1	0.0157	8	3.8	11.8	< 0.2	1.6	4
0009 D	N	1/15/1991	6,902.30	4.50	4.37	7769	469	887	159	11.6	< 1	5383	113	0.65	0.12	< 1	50.4	< 0.001	0.02	0.01	0.71	0.09	12.8	< 0.1	0.88	< 0.001	< 0.1	0.0065	4.9	2.5	7.4	< 0.2	2.7	6.2
0009 D	N	4/9/1991	6,903.70	4.20	4.18	9518	485	1106	163	10.7	< 1	6305	80.2	1.04	0.39	< 1	115	< 0.001	< 0.05	0.02	0.83	0.13	13.1	< 0.1	1.16	< 0.001	< 0.1	0.0098	7	6.1	13.1	1.2	< 1	6
0009 D	N	7/9/1991	6,899.40	4.30	4.40	8444	412	883	141	8.9	< 1	5661	44.1	1.18	0.05	< 1	76.6	< 0.001	0.02	0.01	0.79	< 0.05	17	< 0.1	1.09	< 0.001	< 0.1	0.0062	2.9	2.5	5.4	< 0.2	< 1	3
0009 D	N	10/14/1991	6,899.30	4.10	4.35	8946	363	717	160	8.3	< 1	5904	191	2.3	< 0.01	< 1	128	< 0.001	< 0.01	0.01	1.3	< 0.05	22.1	< 0.1	1.83	< 0.001	< 0.1	0.047	6.6	< 1	6.6	< 0.2	< 1	7
0009 D	N	1/21/1992	6,898.60	4.30	4.31	8112	444	1028	153	10.2	< 1	5648	108	1.11	1.24	< 1	55.1	0.001	0.01	0.02	0.74	0.26	17.1	< 0.1	1.07	0.02	< 0.1	0.009	8.5	< 2	8.5	< 0.2	< 1	9.3
0009 D	N	4/7/1992	6,897.80	4.30	4.09	8533	426	767	185	11.5	< 1	5628	124	1.31	< 0.1	< 1	150	< 0.001	0.04	< 0.01	1.35	0.27	22	< 0.1	1.78	< 0.001	< 0.1	0.022	15.5	8.6	24.1	< 0.2	< 1	15.8
0106 D	N	7/18/1989	6,909.10	4.20	4.66	4068	476	425	113	17.3	2	2928	45.7	1.12	67	< 1	8	< 0.001	< 0.05	< 0.01	0.15	< 0.05	12	< 0.1	0.26	< 0.001	< 0.1	0.0029	7.3	6.6	13.9	4.5	2.2	22.5
0106 D	N	10/11/1989	6,906.80	4.70	4.76	4182	465	332	113	21.2	6.8	2582	46.3	0.97	52	3.3	6.5	< 0.001	< 0.05	0.005	0.16	0.06	12	0.06	0.25	0.031	< 0.1	0.045	3.2	7.4	10.6	< 0.2	4.7	3.5
0106 D	N	1/4/1990	6,905.90	4.30	4.37	4150	466	339	110	16.4	< 1	2502	47.5	0.86	56	2.3	7.4	< 0.001	< 0.05	< 0.01	0.14	< 0.05	12	< 0.1	0.27	< 0.001	< 0.1	0.002	5.9	11.8	17.7	< 0.2	2.8	6.7
0106 D	N	4/10/1990	6,904.20	4.30	4.93	4180	483	350	110	17	6.8	2452	48.2	1.54	58	1.9	7.8	< 0.001	< 0.05	< 0.01	0.12	< 0.05	12	< 0.1	0.29	0.001	< 0.1	0.032	5.3	6	11.3	< 0.2	< 1	6
0106 D	N	7/10/1990	6,903.20	4.60	4.76	4259	455	332	99.4	15.1	8.5	2439	44.2	0.14	64.3	2.8	6.5	< 0.001	< 0.05	< 0.01	0.12	< 0.05	12.4	< 0.1	0.25	< 0.001	< 0.1	0.0107	2.8	4.5	7.3	< 0.2	1.9	3
0106 D	N	10/9/1990	6,902.30	4.50	4.99	4256	437	342	113	14.6	9.8	2536	50	0.13	52	9.6	4.3	< 0.001	< 0.05	< 0.01	0.11	< 0.05	11.6	< 0.1	0.24	< 0.001	< 0.1	0.0041	2.3	4.6	6.9	< 0.2	< 1	2
0106 D	N	1/15/1991	6,902.40	4.80	6.35	4121	545	383	112	13.3	65	2563	56	0.12	57.5	10	0.77	< 0.001	< 0.01	< 0.01	0.07	< 0.05	7.7	0.18	0.1	< 0.001	< 0.1	0.0074	0.8	< 1	0.8	< 0.2	< 1	1.1
0106 D	N	4/9/1991	6,903.00	5.20	6.69	4014	591	380	117	11.6	125	2481	55.3	0.1	67	17.7	0.29	< 0.001	< 0.05	< 0.01	0.04	< 0.05	4.2	0.21	< 0.05	< 0.001	< 0.1	0.0069	4	5.4	9.4	< 0.2	< 1	5
0106 D	N	7/9/1991	6,901.90	4.90	5.89	4247	575	360	99	13.7	20	2770	156	0.49	44.3	6.22	0.9	< 0.001	< 0.01	< 0.01	0.07	< 0.05	7.9	0.2	0.1	0.04	< 0.1	0.0085	3.2	3.5	6.7	< 0.2	< 1	3
0501 B	N	7/20/1989	6,889.00	3.10	3.13	5722	443	492	106	17.5	0	4074	24.2	1.36	0.21	< 1	100	0.244	0.13	< 0.01	1.1	0.08	12	0.11	1.8	< 0.001	< 0.1	0.61	22.1	11	33.1	5.4	< 1	96.3
0501 B	N	10/8/1989	6,887.90	3.20	3.29	5594	454	540	110	20.2	0	3758	36.2	1.06	0.2	< 1	70	0.046	0.09	< 0.01	0.83	0.07	11	0.03	1.2	< 0.001	< 0.1	0.469	16.5	5.9	22.4	15	< 1	34.7
0501 B	N	1/10/1990	6,885.30	3.70	2.98	5622	449	529	115	14.9	< 1	3570	26.6	1.01	0.42	< 1	29	0.03	< 0.05	< 0.01	0.59	< 0.05	9.8	< 0.1	0.8	< 0.001	< 0.1	0.212	9.2	7.2	16.4	< 0.2	< 1	11.2
0501 B	N	4/10/1990	6,884.60	4.40	2.86	5716	447	576	110	14.3	< 1	3592	30	1.02	0.23	< 1	22	0.026	< 0.05	< 0.01	0.64	< 0.05	12	< 0.1	0.73	< 0.001	< 0.1	0.125	10.4	6.8	17.2	< 0.2	< 1	10.4
0501 B	N	7/10/1990	6,883.30	4.50	3.01	5738	511	578	111	15.5	< 1	3756	25.6	0.48	0.26	< 1	22.9	0.014	< 0.05	< 0.01	0.41	< 0.05	12.21	< 0.1	0.74	< 0.001	< 0.1	0.161	9.7	6.9	16.6	< 0.2	< 1	10
0501 B	N	10/9/1990	6,882.30	4.20	4.25	5845	403	511	120	16.7	< 1	3678	57.3	0.39	0.05	< 1	25.8	0.029	0.05	< 0.01	0.68	< 0.05	13.5	< 0.1	0.88	< 0.001	< 0.1	0.2099	12.2	10.6	22.8	< 0.2	1.4	14
0501 B	N	1/11/1991	6,881.40	3.80	3.45	5791	484	592	105	16	< 1	3862	28.2	0.84	< 0.01	< 1	24.7	0.02	0.05	< 0.01	0.68	< 0.05	12.4	< 0.1	0.83	< 0.001	< 0.1	0.2768	12.5	13.4	25.9	< 0.2	1.5	13.4
0501 B	N	4/10/1991	6,880.70	3.60	3.62	5924	483	591	89.1	18.2	< 1	3834	27.1	0.99	< 0.01	< 1	25.62	0.03	< 0.01	< 0.01	0.6	< 0.05	8.12	< 0.1	0.69	< 0.001	< 0.1	0.3332	14.4	8.1	22.5	2.6	5.9	17.7
0501 B	N	7/9/1991	6,879.90	3.70	3.43	6105	412	512	94.7	15.4	< 1	3937	28.7	1.27	< 0.01	< 1	40.84	0.016	0.06	< 0.01	0.7	< 0.05	12.21	< 0.1	0.86	< 0.001	< 0.1	0.4356	8.3	9.9	18.2	< 0.2	< 1	9
0501 B	N	10/17/1991	6,879.40	3.60	3.81	6099	476	483	117	17.9	< 1	3822	37.9	1.3	< 0.01	< 1	52	0.022	0.09	< 0.01	0.8	< 0.05	15.24	< 0.1	1.14	< 0.001	< 0.1	0.5918	10.1	5.4	15.5	< 0.2	2.4	10
0501 B	N	1/21/1992	6,878.80	3.40	4.02	6099	420	555	101	15.7	< 1	4151	24.5	< 0.05	< 0.01	< 1	53.2	0.073	< 0.01	0.02	0.86	0.05	13.9	< 0.1	1.15	0.002	< 0.1	0.434	18.4	12.6	31	< 0.2	1.3	19
0501 B	N	4/14/1992	6,878.40	3.30	3.62	6113	417	472	100	17.8	< 1	3824	28	1.17	< 0.1	< 1	37.1	0.021	0.08	< 0.01	0.82	< 0.05	13.9	< 0.1	0.95	< 0.001	< 0.1	0.379	9	13.1	22.1	< 0.2	1.6	9.2
0501 B	N	7/14/1992	6,877.90	3.20	2.99	6203	362	539	129	21.4	< 1	4209	28.6	0.52	< 0.1	< 1	35.6	0.013	0.063	< 0.01	0.98	< 0.05	13.1	< 0.1	1.07	< 0.001	< 0.1	0.539	10.1	5.5	15.6	< 0.2	< 1	10.2
0501 B	N	10/13/1992	6,877.50	3.60	3.33	5832	455	563	113	19.4	< 1	3601	27.9	0.97	< 0.1	< 1	36.1	0.025	< 0.01	0.02	0.77	< 0.05	13.6	< 0.1	0.85	< 0.001	< 0.1	0.529	15.8	12.1	27.9	< 0.2	3.3	15.9
0501 B	N	1/21/1993	6,877.10	3.50	3.11	6118	408	544	101	16.5	< 1	4100	21.4	0.98	< 0.1	< 1	39.2	0.021	< 0.01	< 0.01	0.63	< 0.05	12.5	< 0.1	1.01	< 0.001	< 0.1	0.225	9	4.9	13.9	< 0.2	2.6	9
0501 B	N	4/14/1993	6,876.90	3.40	3.01	5140	439	532	108	13.7	< 1	3936	29.7	0.99	< 0.1	< 1	42	0.04	0.08	< 0.01	0.99	< 0.05	13.6	< 0.1	1.14	< 0.001	< 0.1	0.421	6.5	11.8	18.3	< 0.2	1.7	7.8
0501 B	N	7/15/1993	6,876.20	3.50	3.02	4976	492	544	105	15.8	< 1	3778	28	0.85	< 0.1	< 1	40.4	0.018	0.051	< 0.01	0.71	< 0.05	11.6	< 0.1	0.75	< 0.001	< 0.1	0.18	6.9	5.1	12	< 0.2	< 1	7.5
0502 B	N	7/23/1989	6,892.40	5.30	5.64	5131	559	501	186	13.7	63	3298	51	2.94	30	< 1	2.2	0.001	< 0.05	< 0.01	0.26	< 0.05	6.9	9.3	0.24	0.003	< 0.1	0.0543	9.3	7.9	17.2	< 0.2	2.3	30.5
0502 B	N	10/11/1989	6,888.10	5.10	5.66	5192	513	483	184	18.7	50.8	3563	55.3	1.26	38	< 1	2.2	0.009	< 0.05	< 0.01	0.19	< 0.05	5.7	23	0.21	0.01	< 0.1	0.064	3.9	5.9	9.8	18.1	4.1	23
0502 B	N	1/3/1990	6,885.70	4.90	5.38	5364	501	495	184	16.1	33.9	3347	52	2.8	39	< 1	16	0.009	< 0.05	< 0.01	0.21	< 0.05	5.8	22	0.27	0.003	< 0.1	0.113	8.7	4.9	13.6	< 0.2	6.7	9.3
0502 B	N	4/3/1990	6,883.90	4.70	5.28	5400	491	500	180	15.5	28.7	3296	55.8	2.17	39	< 1	8.5	0.012	< 0.05	< 0.01	0.27	< 0.05	7	19	0.32	0.004	< 0.1	0.064	8.8	7	15.8	< 0.2	2.8	9.4
0502 B	N	7/2/1990	6,882.70	4.40	4.53	5536	575	542	162	15.9	1.4	3487	54.5	2.38	31.6	< 1	22.7	0.027	< 0.05	< 0.01	0.28	< 0.05	8.9	9.1	0.33	0.003	< 0.1	0.204	14.6	12.8	27.4	< 0.2	7.9	15
0502 B	N	10/2/1990	6,881.40	4.70	5.22	5143	435	453	159	15.4	12.2	3377	51.4	0.8	10.5	< 1	2.4	0.014	< 0.05	< 0.01	0.39	< 0.05	9	5.2	0.38	0.002	< 0.1	0.054	15	1	16	< 0.2	< 1	15
0502 B	N	1/4/1991	6,880.60	4.80	4.50	5193	457	469	165	23.7	< 1	3214	53	3.54	12.4	< 1	22.4	0.024	0.03	< 0.01	0.52	< 0.05	11.1	2.1	0.55	0.002	< 0.1	0.208	17.2	12.8	30	< 0.2	< 1	18
0502 B	N	4/9/1991	6,880.00	4.40	4.57	5227	527	508	158	20	5	3410	36.3	4	14	< 1	15.7	0.003	< 0.05	< 0.01	0.4	< 0.05	8.51	0.68	0.44	0.001	< 0.1	0.2058	14.8	11.4	26.2	< 0.2	< 1	12
0502 B	N	7/16/1991	6,879.20	4.30	4.72	5129	520	526	138	25.8	5	3760	54.4	5.63	12.6	< 1	1	0.009	< 0.01	< 0.01	0.59	< 0.05	12.56	0.85	0.66	< 0.001	< 0.1	0.323	12.7	10.8	23.5	< 0.2	2.9	13
0502 B	N	10/14/1991	6,878.10	4.10	3.88	5164	384	349	139	20.7	< 1	3233	61.3	6.8	10.2	< 1	54.2	0.004	0.012	< 0.01	0.68	< 0.05	13.6	1.01	0.78	0.001	< 0.1	0.28	17.5	12.3	29.8	< 0.2	< 1	18
0502 B	N	1/14/1992	6,876.70	3.70	4.03	4850	420	382	110	15.3	< 1	3470	114	6.3	2.4	< 1	74.7	0.023	0.13	< 0.01	0.67	< 0.05	14.6	2.41	0.84	0.004	< 0.1	0.344	3	1.5	4.5	< 0.2	< 1	3
0502 B	N	4/7/1992	6,875.70	3.70	3.44	5134	439	388	111	16.6	< 1	3407	41.7	12.2	< 0.1	< 1	89.5	0.04	0.14	< 0.01	0.71	< 0.05	17.7	2.3	0.74	< 0.001	< 0.1	0.567	12.9	17.8	30.7	< 0.2	2	12.7
0502 B	N	7/7/1992	6,874.50	3.60	3.67	5229	513	461	97.3	16.4	< 1	3424	20.4	9.1	< 0.1	< 1	92.2	0.068	0.12	< 0.01	0.75	< 0.05	15.1	1.17	0.72	0.001	< 0.1	0.43	7.8	16.4	24.2	< 0.2	< 1	8.4
0502 B	N	10/6/1992	6,873.10	3.80	3.18	5350	488	440	101	16.8	< 1	3695	24.4	6.3	0.24	< 1	68.7	0.036	0.13	< 0.01	0.79	< 0.05	14.3	1	0.89	0.004	< 0.1	0.552	10	16.5	26.5	< 0.2	< 1	10.4
0502 B	N	1/6/1993	6,870.10	3.70	3.41	4292	421	394	92	20.3	< 1	3594	16.8	6.7	< 0.1	< 1	96.9	0.036	0.13	0.02	0.77	< 0.05	16	0.6	1.02	< 0.001	< 0.1	0.715	19.7	19	38.7	< 0.2	< 1	19.9
0502 B	N	4/6/1993	6,870.20	3.70	3.24	4837	409	367	111	19	< 1	3579	43	7.2	< 0.1	< 1	101	0.696	0.14	< 0.01	0.75	< 0.05	15.23	1.15	0.05	0.003	< 0.1	0.812	10.2	24.6	34.8	< 0.2	3.3	11.5

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0502 B	N	7/13/1993	6,869.30	4.10	4.11	4892	464	456	119	19.9	< 1	3741	51.1	6.97	< 0.1	< 1	87	0.018	< 0.005	< 0.01	0.97	< 0.05	14.2	0.74	1.09	< 0.001	< 0.1	0.478	7.3	9.7	17	< 0.2	< 1	8.5
0502 B	N	10/6/1993	6,865.40	4.20	3.94	4832	450	432	121	16.1	< 1	3706	35.9	6.69	0.1	< 1	57.8	0.004	0.09	< 0.01	0.74	< 0.05	12.4	0.51	0.93	< 0.001	< 0.1	0.177	8.8	13	21.8	< 0.2	2	9
0502 B	N	1/5/1994	6,867.20	4.10	2.89	5012	475	435	128	14.6	< 1	3674	45	6.63	18.2	< 1	57.1	0.007	0.08	< 0.01	0.85	< 0.05	12.6	0.41	0.78	< 0.001	< 0.1	0.347	9.7	6.5	16.2	< 0.2	1.1	20.4
0502 B	N	4/13/1994	6,867.20	4.20	3.45	5054	486	432	127	14.3	< 1	3656	37.4	10.2	< 0.1	< 1	54.5	0.005	0.05	< 0.01	0.7	< 0.05	10.5	0.41	0.79	< 0.001	< 0.1	0.332	6.9	7.5	14.4	< 0.2	3.8	18.3
0502 B	N	7/21/1994	6,867.20	4.30	3.59	5603	552	501	116	14.2	< 1	4100	29	6.23	< 0.1	< 1	44.2	0.003	0.04	< 0.01	0.82	< 0.05	12	0.35	0.97	< 0.001	< 0.1	0.205	9.3	9.9	19.2	< 0.2	4.4	24.3
0502 B	N	10/5/1994	6,867.20	4.30	4.23	5017	470	489	129	14	< 1	3739	29.4	5.86	< 0.1	< 1	26.7	0.004	0.03	< 0.01	0.64	< 0.05	9.18	0.28	0.7	< 0.001	< 0.1	0.188	7	6.3	13.3	< 0.2	1.2	16.6
0502 B	N	1/5/1995	6,866.50	4.10	4.27	5078	457	488	125	14.4	< 1	3652	33.3	7.9	< 0.1	< 1	32.3	< 0.001	0.04	< 0.01	0.72	< 0.05	10.5	0.2	0.85	< 0.001	< 0.1	0.211	12.6	4.3	16.9	< 0.2	< 1	19.2
0502 B	N	4/5/1995	6,866.40	4.20	3.89	5106	484	494	122	13.6	< 1	3860	24.2	6.4	< 0.1	< 1	27.2	0.003	0.03	< 0.01	0.81	< 0.05	11.1	0.19	0.74	< 0.001	< 0.1	0.191	8.8	8.2	17	< 0.2	2	21.3
0502 B	N	7/6/1995	6,866.10	4.40	4.18	5090	455	478	118	13.1	< 1	3615	31	6.46	< 0.1	< 1	16.9	0.005	0.02	< 0.01	0.69	< 0.05	9.65	0.19	0.77	< 0.001	< 0.1	0.1321	8.4	6.1	14.5	< 0.2	2	24
0502 B	N	10/4/1995	6,866.10	4.50	4.42	4852	445	470	123	12.8	< 1	3555	29	5.39	0.3	< 1	13.3	0.001	0.02	< 0.01	0.66	< 0.05	9.2	0.15	0.73	< 0.001	< 0.1	0.129	9.1	14.5	23.6	< 0.2	< 1	16.6
0502 B	N	1/4/1996	6,866.10	4.20	3.82	5022	470	485	122	13.3	< 1	3710	29.3	3.16	< 0.1	< 1	16.1	0.002	0.02	< 0.01	0.66	< 0.05	10.3	0.12	0.72	< 0.001	< 0.1	0.134	7.6	14.1	21.7	< 0.2	2.7	11.6
0502 B	N	4/2/1996	6,865.70	4.80	4.47	5428	478	525	119	13.5	< 1	3810	31.2	3.62	< 0.1	< 1	12.1	0.001	0.02	< 0.01	0.63	< 0.05	9.08	0.11	0.66	< 0.001	< 0.1	0.154	6	13.6	19.6	2.1	< 1	11.2
0502 B	N	7/7/1996	6,865.40	4.50	3.40	5317	460	475	120	14.2	< 1	3550	34	3.83	0.11	< 1	16.9	0.002	< 0.01	< 0.01	0.68	< 0.05	10.3	0.13	0.74	< 0.001	< 0.1	0.148	5.9	24.7	30.6	0.6	5.3	16.2
0502 B	N	10/1/1996	6,865.50	4.70	3.72	5570	480	517	123	13.9	< 1	3648	29.3	3.58	< 0.1	< 1	13.6	0.001	0.02	< 0.01	0.62	< 0.05	9.6	< 0.1	0.68	0.002	< 0.1	0.105	5.8	23.1	28.9	1.1	< 1	16.3
0502 B	N	1/21/1997	6,865.70	4.80	4.01	5570	485	525	116	14	< 1	3755	32.1	4.54	< 0.1	< 1	18.3	0.002	0.02	< 0.01	0.63	< 0.05	10.7	< 0.1	0.67	< 0.001	< 0.1	0.138	6.9	22.5	29.4	< 0.2	< 1	8.2
0502 B	N	4/8/1997	6,864.80	4.70	4.39	5610	506	550	145	13.4	< 1	3960	31.2	3.03	< 0.1	1	9.48	< 0.001	0.01	< 0.01	0.54	< 0.05	5.3	0.67	0.48	< 0.001	< 0.1	0.12	10.5	25.3	35.8	< 0.2	< 1	26.1
0502 B	N	7/8/1997	6,864.40	5.70	4.20	5710	516	557	125	14.8	< 1	4000	32.9	3.94	< 0.1	< 1	15.1	< 0.001	< 0.01	< 0.01	0.59	< 0.05	10.1	< 0.1	0.56	< 0.001	< 0.1	0.132	7	19.1	26.1	< 0.2	4.6	12.7
0502 B	N	10/8/1997	6,865.00	4.30	3.75	5700	492	523	110	13.1	< 0.1	3590	34	4.01	< 0.1	< 1	7.71	0.008	0.01	< 0.01	0.66	< 0.05	11.4	0.11	0.63	< 0.001	< 0.1	0.089	7.7	18.3	26	< 0.2	< 1	10.7
0502 B	N	1/16/1998	6,864.20	4.80	4.62	5720	479	522	118	14.3	2.1	3700	33.5	5.14	< 0.1	< 1	11.8	0.003	0.01	< 0.01	0.58	< 0.05	10.7	0.11	0.64	< 0.001	0.1	0.13	7	21.7	28.7	< 0.2	< 1	21.2
0502 B	N	4/7/1998	6,864.30	4.30	3.99	5730	485	536	113	13	0.1	3570	28.6	3.27	< 0.1	< 1	8.5	< 0.001	0.01	0.005	0.5	< 0.05	9.35	< 0.1	0.52	< 0.001	< 0.1	0.126	10.3	25.9	36.2	< 0.2	< 1	11.9
0502 B	N	7/7/1998	6,864.90	4.60	4.11	5570	480	536	115	13.6	< 0.1	3500	29.7	3.85	< 0.1	< 1	8.32	< 0.001	0.01	0.006	0.5	< 0.05	10.2	0.14	0.53	< 0.001	< 0.1	0.131	8.9	28	36.9	< 0.2	< 1	18
0502 B	N	10/6/1998	6,865.10	4.46	4.54	5840	500	559	120	14.7	< 0.1	3720	28.3	0.9	< 0.1	< 1	6.74	0.005	< 0.01	0.006	0.5	< 0.05	9.7	0.11	0.54	< 0.001	< 0.1	0.121	8.3	22.3	30.6	< 0.2	15.4	15.4
0502 B	N	1/6/1999	6,863.90	4.20	4.53	5870	483	568	124	12.7	< 0.1	4000	29.6	3.72	< 0.1	< 1	8.16	< 0.001	0.01	0.006	0.47	< 0.05	9.65	< 0.1	0.52	< 0.001	< 0.1	0.135	7.8	19	26.8	< 0.2	18.1	18.1
0502 B	N	4/6/1999	6,864.00	4.50	4.79	5880	472	545	108	13.2	4	3730	34.7	3.54	< 0.1	< 1	6.86	< 0.001	< 0.01	0.009	0.55	< 0.05	10.5	< 0.1	0.54	< 0.001	< 0.1	0.125	8.7	20.9	29.6	1.4	27.1	27.1
0502 B	N	7/13/1999	6,863.30	4.70	3.90	5820	487	580	100	14.2	< 0.1	3800	24.9	3.25	< 0.1	< 1	6.14	< 0.001	< 0.01	0.006	0.42	< 0.05	10.6	< 0.1	0.42	< 0.001	< 0.1	0.12	7.4	18.3	25.7	< 0.2	< 1	14.4
0502 B	N	10/5/1999	6,863.70	4.25	3.78	5830	503	612	114	13.6	< 0.1	4050	31.2	3.87	< 0.1	< 1	8.31	< 0.001	< 0.01	0.008	0.57	< 0.05	12	0.14	0.49	< 0.001	< 0.1	0.132	9.9	26.1	36	< 0.2	< 1	13.1
0502 B	N	1/4/2000	6,863.90	4.30	4.29	5750	469	572	105	14	< 0.1	3720	28.9	3.29	< 0.1	< 1	7.15	< 0.001	0.02	< 0.005	0.5	< 0.05	11.4	< 0.1	0.53	< 0.001	< 0.1	0.131	11.1	12.9	24	< 0.2	< 1	9.8
0504 B	N	7/23/1989	6,868.10	6.20	6.50	4631	515	440	172	10.5	293	3027	37.9	0.49	0.05	< 1	0.25	0.113	< 0.05	< 0.01	0.14	< 0.05	2.5	24	0.24	0.001	< 0.1	0.1	19.6	12.8	32.4	< 0.2	< 1	66.1
0504 B	N	10/11/1989	6,867.30	5.90	6.68	4674	491	384	150	13.8	271	2947	39	0.58	0.23	< 1	0.2	0.054	< 0.05	0.09	0.26	< 0.05	3.1	9.9	0.37	< 0.001	< 0.1	0.122	14	9.3	23.3	11.1	2.7	27.5
0504 B	N	1/3/1990	6,865.90	5.70	6.36	4458	497	373	146	11	217	2793	35.9	0.7	0.05	< 1	0.22	0.025	< 0.05	< 0.01	0.16	< 0.05	2.3	4.2	0.25	0.001	< 0.1	0.286	15.8	12.4	28.2	1.6	5.7	18.1
0504 B	N	4/3/1990	6,864.60	6.00	6.30	4622	503	407	144	10.8	203	2751	36.9	0.79	0.08	< 1	< 0.1	0.017	< 0.05	< 0.01	0.3	< 0.05	4.1	7.8	0.52	0.001	< 0.1	0.101	10.6	18.6	29.2	< 0.2	1.6	12.5
0504 B	N	7/2/1990	6,863.50	5.60	6.32	4598	554	424	143	10.6	229	2931	33.2	0.36	0.06	< 1	< 0.1	0.023	< 0.05	< 0.01	0.28	< 0.05	3.8	8.32	0.45	0.001	< 0.1	0.1468	17.7	18.5	36.2	< 0.2	3.3	20
0504 B	N	10/2/1990	6,862.70	5.80	6.71	4631	469	456	146	10.5	198	3067	33.7	0.39	0.02	< 1	< 0.1	0.021	< 0.05	< 0.01	0.34	< 0.05	3.6	13.3	0.46	< 0.001	< 0.1	0.13	19.2	12	31.2	< 0.2	< 1	20
0504 B	N	1/3/1991	6,862.70	5.70	6.25	4687	534	446	140	31.6	166	3022	32.5	0.86	0.08	< 1	< 0.1	0.002	< 0.01	< 0.01	0.49	< 0.05	4.85	3.6	0.6	0.001	< 0.1	0.3797	23.7	15.2	38.9	< 0.2	< 1	25
0504 B	N	4/9/1991	6,861.70	5.60	6.51	4678	531	437	134	13.5	159	2979	30.9	0.74	0.07	< 1	< 0.1	0.001	< 0.05	< 0.01	0.35	< 0.05	4.39	2.83	0.49	< 0.001	< 0.1	0.147	21.9	19	40.9	< 0.2	< 1	25
0504 B	N	7/16/1991	6,860.70	5.60	6.30	4769	535	392	132	10.8	161	3427	33.1	0.91	0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.43	< 0.05	4.47	2.7	0.54	< 0.001	< 0.1	0.279	16	12	28	< 0.2	3.2	16
0504 B	N	10/14/1991	6,857.30	5.80	6.62	4495	456	269	131	8.3	245	2640	39.2	0.44	0.03	< 1	< 0.1	0.573	< 0.01	< 0.01	0.22	< 0.05	2.96	75	0.3	< 0.001	< 0.1	0.14	6.6	2.4	9	< 0.2	< 1	7
0504 B	N	1/14/1992	6,855.40	5.40	6.06	5014	502	378	161	10.8	121	3119	40.3	3.1	< 0.01	< 1	< 0.1	0.34	< 0.01	< 0.01	0.5	< 0.05	5.08	43.4	0.67	< 0.001	< 0.1	0.029	17	5.2	22.2	< 0.2	< 1	16
0504 B	N	4/7/1992	6,855.90	5.40	6.21	5112	500	473	162	13.1	207	3372	31.4	0.92	< 0.1	< 1	< 0.1	0.035	< 0.01	< 0.01	0.53	< 0.05	7.1	9.6	0.63	0.002	< 0.1	0.124	7.9	12.2	20.1	< 0.2	< 1	7.6
0504 B	N	7/7/1992	6,855.80	5.10	7.63	5218	578	463	194	14.1	50.9	3249	41	0.63	< 0.1	< 1	< 0.1	0.388	< 0.01	< 0.01	0.7	< 0.05	6.66	56.4	0.88	0.001	< 0.1	0.02	8.2	4.8	13	< 0.2	< 1	8.5
0504 B	N	10/6/1992	6,851.70	5.40	5.85	5061	593	430	185	13.9	63.4	3278	37.3	0.84	< 0.1	< 1	1.1	0.257	< 0.01	< 0.01	0.66	< 0.05	6.88	49.8	0.91	0.002	< 0.1	0.042	12.6	7.8	20.4	< 0.2	< 1	12.5
0504 B	N	1/21/1993	6,849.90	5.40	5.90	4440	525	378	159	14.3	38.1	3194	43.2	0.93	< 0.1	< 1	1.3	0.181	< 0.01	< 0.01	0.57	< 0.05	7.05	45.4	0.9	< 0.001	< 0.1	0.033	9.5	3.8	13.3	< 0.2	4.7	10
0504 B	N	4/14/1993	6,849.90	5.60	6.50	4825	519	494	171	10.4	82.8	3373	37.6	0.76	< 0.1	< 1	0.1	0.042	< 0.01	< 0.01	< 0.01	< 0.05	5.94	12.7	0.67	< 0.001	< 0.1	0.176	9.1	11.7	20.8	< 0.2	< 1	10.5
0504 B	N	7/15/1993	6,848.40	5.60	4.91	4659	540	464	160	14.8	13.2	3430	41.2	0.93	< 0.1	< 1	1.17	0.139	< 0.01	< 0.01	1	< 0.05	6.68	12.4	1.27	0.002	< 0.1	0.064	9	8	17	< 0.2	< 1	9.9
0504 B	N	10/6/1993	6,844.70	5.70	5.67	4372	543	385	155	11	27.6	3129	33.5	0.6	0.2	< 1	0.17	0.014	< 0.01	< 0.01	0.52	< 0.05	4.94	7	0.7	< 0.001	< 0.1	0.051	13.6	7.9	21.5	< 0.2	< 1	15
0504 B	N	1/5/1994	6,847.00	5.70	6.01	5244	578	450	145	10.6	58.5	3491	38.7	0.8	< 0.1	< 1	< 0.1	0.041	< 0.01	< 0.01	0.46	< 0.05	6	3.4	0.54	< 0.001	< 0.1	0.085	21.1	16	37.1	< 0.2	< 1	46.1
0504 B	N	4/13/1994	6,846.50	5.80	6.01	5083	580	433	138	10.6	47.9	3448	37.9	1.82	< 0.1	< 1	< 0.1	0.019	< 0.01	< 0.01	0.52	< 0.05	6.09	4.97	0.73	< 0.001	< 0.1	0.059	15.5	15.6	31.1	< 0.2	2.6	29
0504 B	N	7/21/1994	6,846.30	5.90	6.25	4998	600	452	135	11.1	62.8	3467	32.3	0.91	< 0.1	< 1	0.15	0.012	< 0.01	< 0.01	0.45	< 0.05	5.8	1.03	0.6	< 0.001	< 0.1	0.084	18.2	23.4	41.6	< 0.2	2.5	53.4
0504 B	N	10/5/1994	6,846.30	5.80	6.56	5208	604	489	176	12.5	68.3	3421	35.5	1.4	< 0.1	< 1	< 0.1	0.01	< 0.01	< 0.01	0.36	< 0.05	5.14	5.36	0.54	< 0.001	< 0.1	0.081	14.4	13.9	28.3	< 0.2	2	35.4
0504 B	N	1/5/1995	6,844.80	5.80	6.41	4827	570	406	152	12.2	117	3232	35.8	1.38	< 0.1	< 1	< 0.1	0.009	< 0.01	< 0.01	0.37	< 0.05	4.62	0.85	0.51	< 0.001	< 0.1	0.123	21.3	18.4	39.7	< 0.2	< 1	49
0504 B	N	4/5/1995	6,845.00	5.80	7.46	5199	527	487	145	11.3	35.4	3710	37.1	1.49	< 0.1	< 1	< 0.1	0.011	< 0.01	< 0.01	0.54	< 0.05	6.2	2.67	0.56	< 0.001	< 0.1	0.073	16.8	14.8	31.6	< 0.2	< 1	39.2
0504 B	N	7/6/1995	6,845.10	6.30	6.51	4787	515	470	145	11.7	58.7	3298	33.5	1.64	< 0.1	< 1	< 0.1	0.01	< 0.01	< 0.01	0.47	< 0.05	5.63	2.11	0.58	< 0.001	< 0.1	0.0792	13.7	13.3	27	< 0.2	1.3	51.9
0504 B	N	10/4/1995	6,844.10	6.00	6.70	4530	490	450	151	11.6	71.1	3315	33	1.36	0.23	< 1	< 0.1	0.008	< 0.01	< 0.01	0.47	< 0.05	5.5	0.77	0.61	< 0.001	< 0.1	0.078	15.6	19.2	34.8	< 0.2	< 1	25.5
0504 B	N	1/4/1996	6,843.30	6.20	6.44	4519	530	455	156	11.3	92	3116	32	0.66	1.68	< 1	< 0.1	0.005	< 0.01	< 0.01	0.43	< 0.05	4.79	0.52	0.5	< 0.001	< 0.1	0.119	14	23.1	37.1	< 0.2	3.4	27.4
0504 B	N	4/2/1996	6,843.10	7.00	6.82	5270	530	515	59.4	13.1	61.5	3630	37.5	0.74	< 0.1	< 1	< 0.1	0.01	< 0.01	< 0.01	0.5	< 0.05	5.73	0.41	0.61	< 0.001	< 0.1	0.088	15.3	20.9	36.2	< 0.2	< 1	23.3
0504 B	N	7/7/1996	6,842.70	6.00	6.22	5316	515	475	153	13.4	44	3440	39.2	0.67	< 0.1	< 1	< 0.1	0.01	< 0.01	< 0.01	0.49	< 0.05	6.04	0.47	0.63	< 0.001	< 0.1	0.081	16.9	30.6	47.5	0.7	2.3	20.4
0504 B	N	10/1/1996	6,842.20	6.30	6.00	5260	539	509	154	12.7	53.7	3427	34.6	0.62	< 0.1	< 1	< 0.1	0.005	< 0.01	< 0.01	0.48	< 0.05	5.68	0.36	0.6	0.002	< 0.1	0.072	14.9	25.2	40.1	0.8	< 1	25.2
0504 B	N	1/21/1997	6,843.90	6.10	5.61	5220	515	525	149	14.1	8.5	3530	34.2	0.72	< 0.1	< 1	0.16	0.017	< 0.01	< 0.01	0.41	< 0.05	6	0.64	0.57	< 0.001	< 0.1	0.057	16.7	32.2	48.9	< 0.2	< 1	14.1
0504 B	N	4/8/1997	6,842.10	6.10	6.92	5180	537	534	145	12.5	76.3	3640	37.5	0.61	< 0.1	1	< 0.1	< 0.001	< 0.01	< 0.01	0.37	< 0.05	5.3	0.67	0.48	< 0.001	< 0.1	0.106	19.9	24	43.9	< 0.2	< 1	43.7
0504 B	N	7/8/1997	6,841.30	7.10	6.53	5390	564	565	153	13.8	42.6	3850	37.7	0.67	< 0.1	< 1	0.17	0.017	< 0.01	< 0.01	0.38	< 0.05	5.81	1.38	0.49	< 0.001	< 0.1	0.068	17.2	26	43.2	< 0.2	< 1	17

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
0504 B	N	10/8/1997	6,841.70	5.70	6.40	5350	531	519	141	12.3	26	3430	37.5	0.78	0.15	< 1	0.16	0.02	< 0.01	< 0.01	0.45	< 0.05	6.71	4.69	0.56	< 0.001	< 0.1	0.087	16.3	18.4	34.7	< 0.2	< 1	16.3
0504 B	N	1/16/1998	6,841.20	5.80	6.60	5360	517	520	152	13.4	32.7	3500	36.4	1.12	0.1	< 1	1.15	0.025	< 0.01	< 0.01	0.41	< 0.05	6.37	6.75	0.57	< 0.001	< 0.1	0.1607	15.6	23.6	39.2	< 0.2	< 1	42
0504 B	N	4/7/1998	6,841.00	5.70	5.91	5420	518	529	146	12.3	19.2	3350	32.4	0.76	< 0.1	< 1	0.22	0.024	< 0.01	< 0.005	0.32	< 0.05	5.4	7.43	0.43	< 0.001	< 0.1	0.0594	18.5	18.4	36.9	< 0.2	< 1	18.7
0504 B	N	7/7/1998	6,841.00	6.00	4.34	5140	503	519	153	12.7	< 0.1	3550	33	0.96	< 0.1	< 1	0.23	0.013	< 0.01	< 0.005	0.31	< 0.05	5.78	8.79	0.44	< 0.001	< 0.1	0.0359	13.7	20.9	34.6	< 0.2	< 1	20
0504 B	N	10/6/1998	6,841.20	5.70	6.33	5340	543	555	158	13.8	29.7	3500	32.7	3.99	0.29	< 1	0.24	0.019	< 0.01	< 0.005	0.31	< 0.05	5.48	9.2	0.446	< 0.001	< 0.1	0.0378	15.9	13.2	29.1	< 0.2	< 1	15.8
0504 B	N	1/6/1999	6,841.00	5.60	6.36	5340	463	524	141	12.3	38	3700	33	0.7	0.19	< 1	0.33	0.025	< 0.01	0.007	0.3	< 0.05	5.6	12.4	0.42	< 0.001	< 0.1	0.0435	15.9	18.5	34.4	< 0.2	< 1	32
0504 B	N	4/6/1999	6,841.20	5.50	6.53	5370	508	542	140	12.4	31	3440	38.6	0.8	< 0.1	< 1	0.37	0.015	< 0.01	< 0.005	0.33	< 0.05	5.8	9.48	0.43	< 0.001	< 0.1	0.0531	18.8	17.5	36.3	< 0.2	< 1	50
0504 B	N	7/13/1999	6,840.81	6.50	6.51	5350	522	558	132	13.3	28	3500	32	0.75	0.38	< 1	0.17	0.02	< 0.01	< 0.005	0.24	< 0.05	5.7	14.6	0.35	< 0.001	< 0.1	0.0288	11.1	14.6	25.7	< 0.2	< 1	17.3
0504 B	N	10/5/1999	6,841.40	5.73	5.53	5260	540	583	152	12.5	9	3740	34	0.96	0.26	< 1	< 0.1	0.022	< 0.01	0.007	0.33	< 0.05	6.27	16.3	0.4	0.001	< 0.1	0.0392	13.5	16.4	29.9	< 0.2	< 1	12.6
0504 B	N	1/4/2000	6,841.50	6.00	7.11	5220	497	543	135	12.7	31	3380	30.2	0.64	0.5	< 1	< 0.1	0.021	< 0.01	< 0.005	0.32	< 0.05	6.02	14.5	0.48	< 0.001	< 0.1	0.0454	12.8	15.7	28.5	< 0.2	< 1	12.3
0504 B	N	5/1/2000	6,841.40	5.60	6.69	5500	474	526	134	12.3	51	3480	34	0.75	< 0.1	< 1	0.3	0.033	< 0.01	0.025	0.34	< 0.05	6.67	15.7	0.51	< 0.001	< 0.1	0.0388	21.3	16.3	37.6	< 0.2	< 1	22.6
0504 B	N	7/10/2000	6,841.30	5.45	6.20	5510	506	570	150	12.3	48	3440	28.4	0.68	< 0.1	< 1	0.21	0.025	< 0.01	< 0.005	0.3	< 0.05	6.18	13.4	0.41	< 0.001	< 0.1	0.0498	13.4	20.8	34.2	< 0.2	< 1	21
0504 B	N	10/2/2000	6,841.40	6.52	6.28	5650	510	620	147	13.8	44	3740	33	0.53	< 0.1	< 1	0.2	0.033	< 0.01	< 0.005	0.35	< 0.05	6.23	14.3	0.36	< 0.001	< 0.1	0.0226	15	15.8	30.8	< 0.2	< 1	25
0504 B	N	1/15/2001	6,841.80	5.02	5.92	5590	480	564	135	12.5	43	4100	34.6	0.71	< 0.1	< 1	0.2	0.028	< 0.01	0.008	0.29	< 0.05	5.99	12.3	0.44	< 0.001	< 0.1	0.031	15.7	17.9	33.6	< 0.2	< 1	18.7
0504 B	N	4/2/2001	6,841.80	7.50	6.02	5590	479	595	153	12.1	13	3480	29.3	0.88	< 0.1	< 1	0.3	0.026	< 0.01	< 0.005	0.31	< 0.05	6.2	12.9	0.48	< 0.001	< 0.1	0.027	15.5	20.8	36.3	< 0.2	< 1	15.5
0504 B	N	7/16/2001	6,841.70	3.50	3.70	5810	458	590	134	24.3	< 0.1	3570	44	0.84	< 0.1	< 1	0.3	0.036	< 0.01	< 0.005	0.28	< 0.05	6.2	10.5	0.43	< 0.001	< 0.1	0.028	18.6	25.2	43.8	< 0.2	< 1	16.9
0504 B	N	10/8/2001	6,841.85	3.55	5.80	5920	450	590	132	12.3	26.8	3300	35.9	0.77	< 0.1	< 1	0.16	0.026	< 0.01	< 0.005	0.22	< 0.05	5.3	7.49	0.29	< 0.001	< 0.1	0.0257	16	20	36	< 0.2	< 1	23
0504 B	N	1/7/2002	6,841.60	5.46	3.50	5840	499	628	128	13	< 0.1	3940	42	0.63	< 0.1	< 1	0.2	0.023	< 0.01	< 0.005	0.26	< 0.05	6.37	7.3	0.41	< 0.001	< 0.1	0.0242	18.2	23.2	41.4	< 0.2	< 1	16.7
0504 B	N	4/8/2002	6,841.90	3.30	3.36	5980	477	616	142	12.6	< 0.1	3810	33.5	0.7	< 0.1	< 1	0.2	0.018	< 0.01	< 0.005	0.31	< 0.05	7.84	9.9	0.43	< 0.001	< 0.1	0.0278	13.5	19.5	33	< 0.2	< 1	20.4
0504 B	N	7/15/2002	6,841.80	4.55	3.42	6060	561	713	143	12.3	< 0.1	4430	25.6	1.23	< 0.1	< 1	< 0.1	0.02	< 0.01	< 0.005	0.26	< 0.05	6.37	7.1	0.28	< 0.001	< 0.1	0.0296	16.3	24.7	41	< 0.2	< 1	17.3
0504 B	N	10/14/2002	6,841.70	3.43	3.80	4980	460	605	144	11.5	< 0.1	3710	26.8	1.16	< 0.1	< 1	0.2	0.019	< 0.01	< 0.005	0.27	< 0.05	6.96	6.8	0.36	< 0.001	< 0.1	0.0331	12.4	13.1	25.5	< 0.2	< 1	18.7
0504 B	N	1/13/2003	6,841.31	5.54	4.47	5980	531	710	137	11.8	< 0.1	4140	15.6	1.27	< 0.1	< 1	0.2	0.025	< 0.01	< 0.005	0.27	< 0.05	6.57	7.4	0.32	< 0.001	< 0.1	0.0288	17.3	4	21.3	< 0.2	< 1	21.6
0504 B	N	4/14/2003	6,841.59	5.14	3.27	6140	626	873	158	15.2	< 0.1	5300	30.2	1.3	< 0.1	< 1	< 0.1	0.012	< 0.01	< 0.005	0.29	< 0.05	7.52	6.1	0.35	< 0.001	< 0.1	0.0243	16.9	17.4	34.3	< 0.2	< 1	31.2
0504 B	N	7/14/2003	6,841.31	5.35	3.34	6230	474	633	158	12.4	< 0.1	3750	28.3	1.1	< 0.1	< 1	0.2	0.017	< 0.01	< 0.005	0.27	< 0.05	7.03	5.8	0.34	< 0.001	< 0.1	0.0254	14.9	13	27.9	< 0.2	< 1	11.4
0504 B	N	10/13/2003	6,841.16	5.48	3.36	6100	512	699	152	12.6	< 0.1	4260	30.4	1.05	< 0.1	< 1	0.3	0.023	< 0.01	< 0.005	0.25	< 0.05	6.27	4.5	0.32	< 0.001	< 0.1	0.0251	11.8	13.9	25.7	< 0.2	< 1	27.8
0504 B	N	1/12/2004	6,840.94	5.39	3.25	6120	514	699	134	13.4	< 1.0	4110	31.2	1.37	< 0.10	< 1.0	0.2	0.017	< 0.01	< 0.005	0.26	< 0.05	7.08	4.7	< 0.05	< 0.001	< 0.1	0.0241 D	12.4	14.1	26.5	< 0.2	< 1.0	29.7
0504 B	N	4/12/2004	6,840.84	5.36	3.50	6120	485	652	148	13.4	< 1	4140	31.8	1.26	< 0.1	< 1	0.1	0.022	< 0.01	< 0.005	0.25	< 0.05	7.14	4	0.3	< 0.001	< 0.1	0.02 D	10.1	14.1	24.2	< 0.2	< 1	16.2
0504 B	N	7/19/2004	6,840.83	5.48	5.21	6140	523 D	672 D	164	12.5	15	4070 D	28	1.04	< 0.10	< 1.0	0.4	0.017	< 0.01	< 0.005	0.25	< 0.05	6.82	2.8	0.27	< 0.001	< 0.1	0.0208 D	11.7	13	24.7	< 0.2	< 1.0	28.1
0504 B	N	10/11/2004	6,840.74	5.56	3.31	6210	485 D	685 D	163	12.5	< 1	4120 D	29	0.91	< 0.10	< 1.0	0.2	0.015	< 0.01	< 0.005	0.19	< 0.05	6.88	3	0.28	< 0.001	< 0.1	0.0236	11.4	8.5	19.9	< 0.2	< 1.0	20
0504 B	N	1/10/2005	6,840.60	5.31	3.37	6240	488 D	660 D	150	12.1	< 1	3970 D	29	0.91	< 0.1	< 1.0	0.2	0.02	< 0.01	< 0.005	0.26	< 0.05	6.41	2.3	0.29	< 0.001	< 0.1	0.0254	7.8	10	17.8	< 0.2	< 1.0	20.8
0504 B	N	4/11/2005	6,840.33	5.55	4.27	5990	512	693	166	12.4	< 1	4340	30	1.07	< 0.1	< 1.0	0.3	0.02	< 0.01	< 0.005	0.24	< 0.05	7.1	2.5	0.28	< 0.001	< 0.1	0.0254	14.4	14.6	29	< 0.2	< 1.0	15.6
0504 B	N	7/18/2005	6,840.19	5.10	3.30	6300	512 D	684 D	162	12.2	< 1	4150 D	29	0.96	< 0.1	< 1.0	0.3	0.02	< 0.01	< 0.005	0.24	< 0.05	6.85	0.7	0.3	< 0.001	< 0.1	0.0206	10.7	13.4	24.1	2.4	< 1.0	19.1
0504 B	N	10/10/2005	6,839.55	5.45	5.07	4250	525 D	415 D	126	10	< 1	3040 D	29	0.93	< 0.1	< 1.0	13.7	< 0.001	< 0.01	< 0.005	0.27	< 0.05	5.02	< 0.1	0.28	< 0.001	< 0.1	0.019	14.8	14.5	29.3	< 0.2	< 1.0	16.8
0504 B	N	1/16/2006	6,838.98	5.22	3.96	6310	448 D	654 D	148	11.8	< 1	3990 D	28	1.29	< 0.1	< 1.0	10.2	0.02	< 0.01	< 0.005	0.27	< 0.05	7.52	1.6	0.33	< 0.001	< 0.1	0.0439	11.3	16.7	28	< 0.2	< 1.0	14.8
0504 B	N	4/10/2006	6,838.71	5.21	3.63	5980	517 D	707 D	144	12.3	< 1	4330 D	34	0.97	0.3	< 1.0	2.4	0.02	< 0.01	< 0.005	0.27	< 0.05	7.45	1.7	0.27	< 0.001	< 0.1	0.0254	12.5	17	29.5	< 0.2	< 1.0	11.2
0504 B	N	7/24/2006	6,838.23	5.06	3.99	5870	487 D	668 D	160	12.3	< 1	4140 D	29	1.16	< 0.1	< 1.0	0.4	0.008	< 0.01	< 0.005	0.24	< 0.05	7.14	0.5	0.25	< 0.001	< 0.1	0.0211	11.3	16.2	27.5	< 0.2	< 1.0	11.7
0504 B	N	10/9/2006	6,837.89	5.11	5.14	5790	483 D	662 D	148	12.2	< 1	3970 D	25	1.13	< 0.1	< 0.5	0.1	0.02	< 0.01	< 0.005	0.25	< 0.05	7.28	1.5	0.28	< 0.001	< 0.1	0.0234	11.4	17.1	28.5	< 0.2	< 1	9.9
0504 B	N	1/15/2007	6,837.51	5.23	5.38 H	6140 H	474 D	649 D	149	12.5	<1	4070 D	29	0.54	<0.1	<0.5	0.8	0.02	<0.01	<0.005	0.22	<0.05	6.67	2	0.25	<0.001	<0.1	0.0254	12.2	16.4	28.6	<0.2	<1	16.4
0504 B	N	4/17/2007	6,836.83	5.25	4.47	6020	499 D	700 D	149	12.6	<1	4480 D	32	0.56	<0.1	<0.5	2.1	0.01	<0.01	<0.005	0.26	<0.05	7.42	0.2	0.29	<0.001	<0.1	0.0254 D	10.6	19.6	30.2	<0.2	<1	10.9
0504 B	N	7/17/2007	6,836.81	5.10	3.35	5690	484 D	674 D	154	12.1	<1	4180 D	28	0.83	<0.1	<0.5	0.9	0.05	<0.01	<0.005	0.25	<0.05	6.41	2.3	0.28	<0.001	<0.1	0.0248	11.5	17.1	28.6	<0.2	<1	13.5
0504 B	N	10/9/2007	6,836.13	3.29	4.81	6000	480 D	657 D	151	12.4	6	4050 D	29	0.73	<0.1	<0.5	0.1	0.02	<0.01	<0.005	0.24	<0.05	7.52	1	0.26	<0.001	<0.1	0.0195	8.2	16.9	25.1	<0.2	<1	10.7
0504 B	N	1/22/2008	6,835.95	5.35	3.66	5590	458 D	607 D	142	12.7	4	3800 D	35 D	0.53	< 0.1	< 0.5	2.4	0.035	< 0.01	< 0.005	0.25	< 0.05	6.88	2.8	0.29	< 0.001	< 0.1	0.0307	16.4	19.6	36	< 0.2	< 1	16
0504 B	N	4/15/2008	6,835.96	5.24	3.51	5630	486	652	151 D	12.1	< 1	4300 D	26	0.43	< 0.1	< 0.50	4.8	0.01	< 0.01	< 0.005	0.25	< 0.05	6.67	3.1	0.27	< 0.001	< 0.1	0.0373	9	23.1	32.1	<0.1 U	0 U	14.6
0504 B	N	7/15/2008	6,835.41	5.26	3.9	5950	437	607	140 D	12	< 1	3940 D	26	0.36	< 0.1	< 0.5	2.9	0.003	< 0.01	< 0.005	0.22	< 0.05	6.62	3.5	0.26	< 0.001	< 0.1	0.0318	12	20	32	0 U	4.5 U	13.2
0504 B	N	10/13/2008	6,835.11	3.47	3.66	5750	439	601	142 D	12	< 1	4060 D	23	0.9 D	< 0.1	< 0.5	0.6	0.005	< 0.01	< 0.005	0.23	< 0.05	6.44	2.6	0.26	< 0.001	< 0.1	0.0274	11	13	24	0.4	1.4 U	19.5
0504 B	N	1/20/2009	6,834.86	5.5	3.44	5750	466	618	167	13	<1	4140 D	21	0.49	<0.1	<0.5	5.2	0.028	<0.01	<0.005	0.24	<0.05	6.83	9	0.27	<0.001	<0.1	0.0572	14	21	35	<0.1 U	0.6 U	18.6
0504 B	N	4/14/2009	6,834.86	5.59	3.6	5580	449 D	581 D	152 D	11	<1	3930 D	26	0.42	<0.1	<0.50	4.8 D	0.02	<0.01	<0.005	0.22	<0.05	6.46 D	7.3 D	0.26	<0.001	<0.1	0.0498	8.9	15	23.9	0.2 U	<0.6 U	17.1
0504 B	N	7/14/2009	6,834.51	3.56	3.69	5980	474	597	147	12	<1	4020 D	27	0.55	<0.1	<0.50	4.6	<0.001	<0.01	<0.005	0.22	<0.05	6.44	6	0.25	0.001	<0.1	0.0505	11	17	28	0.06 U	1.9 U	19.2
0504 B	N	10/13/2009	6,834.36	5.5	3.68	5690 H	494 D	589	142 D	12	<1	4100 D	31	0.61	<0.1	<0.50	2.7	<0.001	<0.01	<0.005	0.21	<0.05	6.06	3.3	0.25	<0.001	<0.1	0.0498	14	18	32	0.1	4.2	15.4
0504 B	N	1/12/2010	6,834.41	4.56	3.69	6620 D	495 D	682	153 D	13	<5	4270 D	23	1.36	<0.10	<0.50	92.9	0.002 H	0.02	0.018	0.71	<0.05	11.1	3.2	0.88	<0.001	<0.1	0.266	30	19	49	0.2	3.4 U	46
0504 B	N	7/20/2010	6,833.21	3.13	3.34	6550 D	464	700	174	12	<5	4650 D	26 D	1.82	0.1	<0.50	79.1	0.008	0.02	0.011	0.54	<0.05	9.74	3.4	0.64	<0.001	<0.1	0.584	26	15	41	3.6	4.8	33.8
0504 B	N	10/12/2010	6,833.41	3.88	4.94	5570 D	491	604	173	12	<5	3930 D	25 D	0.8	<0.1	<0.50	12.6	0.003	<0.01	<0.005	0.25	<0.05	6.34	1.2	0.32	<0.001	<0.1	0.12	8	14	22	0.6	1.4 U	13.4
EPA 01	N	7/25/1989	6,804.30	6.50	6.40	4590	648	380	161	10.2	427	2852	29.3	0.83	0.01	< 1	0.39	0.149	< 0.05	0.01	< 0.01	< 0.05	4.7	62	< 0.05	< 0.001	< 0.1	0.0034	0.3	1.1	1.4	1.8	< 1	3
EPA 01	N	10/4/1989	6,804.50	6.60	6.73	4522	620	352	158	13.4	466	2844	25.9	0.32	0.01	< 1	0.45	0.156	< 0.05	0.01	< 0.01	< 0.05	4.9	50	< 0.05	< 0.001	< 0.1	0.005	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 01	N	1/16/1990	6,804.20	6.40	6.56	4632	576	352	161	10.6	458	2842	29.5	0.46	0.02	< 1	0.2	0.142	< 0.05	< 0.01	< 0.01	< 0.05	5	49	< 0.05	< 0.001	< 0.1	0.004	< 0.2	< 1	0	< 0.2	1.6	1.8
EPA 01	N	4/17/1990	6,803.80	6.30	6.76	4714	593	244	156	10.2	468	2662	30.4	0.63	0.07	< 1	0.41	0.183	< 0.05	< 0.01	< 0.01	< 0.05	5	46	< 0.05	< 0.001	< 0.1	0.003	1.2	< 1	1.2	< 0.2	< 1	1.3
EPA 01	N	7/12/1990	6,803.10	6.40	6.78	4725	583	360	151	10.8	482	2652	29.7	0.26	0.1	< 1	< 0.1	0.195	< 0.05	< 0.01	0.05	< 0.05	5.45	40.3	< 0.05	< 0.001	< 0.1	0.0068	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 01	N	10/16/1990	6,802.90	6.30	7.19	4706	633	388	172	12.8	448	2800	32	0.36	0.11	< 1	< 0.1	0.318	< 0.05	< 0.01	0.02	< 0.05	4.86	41.2	< 0.05	< 0.001	< 0.1	0.0062	< 0.2	< 1	0	< 0.2	2	< 1
EPA 01	N	1/8/1991	6,802.30	6.40	6.70	4730	628	384	159	29	436	2719	66	0.51	0.05	< 1	< 0.1	0.181	< 0.01	0.01	0.03	< 0.05	5.18	43.1	< 0.05	< 0.001	< 0.1	0.0054	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 01	N	4/16/1991	6,802.20	6.30	7.74	4746	608	368	161	11.2	480	2596	34.1	0.46	0.29	< 1	< 0.1	0.193	< 0.01	< 0.01	0.02	< 0.05	4.88	38.4	< 0.05	< 0.001	< 0.1	0.005	< 0.2	< 1	0	< 0.2	< 1	< 1

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**80**	**NA**	**0.757**	**0.05**	**0.09**	**NA**	**0.08**	**NA**	**NA**	**0.569**	**0.01**	**0.1**	**0.395**	**NA**	**NA**	**35.2**	**17**	**5.7**	**39.7**
		EPA Standard	**NA**	**NA**	**NA**	**8592**	**NA**	**NA**	**NA**	**NA**	**NA**	**5693**	**250**	**NA**	**190**	**80**	**5**	**0.757**	**0.004**	**0.09**	**0.391**	**0.08**	**9.1**	**66.1**	**0.569**	**0.05**	**0.1**	**0.395**	**NA**	**NA**	**35.2**	**17**	**5.7**	**39.7**
EPA 01	N	7/3/1991	6,801.80	6.40	6.99	4494	560	333	141	9	488	2905	31.8	0.21	< 0.01	< 1	< 0.1	0.19	< 0.01	< 0.01	0.03	< 0.05	4.37	35.9	< 0.05	< 0.001	< 0.1	0.0118	0.4	< 1	0.4	< 0.2	< 1	< 1
EPA 01	N	10/22/1991	6,801.40	6.40	7.14	4713	584	344	156	10.2	483	2853	38.1	0.32	< 0.01	< 1	< 0.1	0.242	< 0.01	< 0.01	0.01	< 0.05	4	35.3	< 0.05	< 0.001	< 0.1	0.0041	< 0.2	< 1	0	< 0.2	3.2	< 1
EPA 01	N	1/22/1992	6,801.00	6.30	7.31	4824	584	344	148	9.7	452	2905	36.2	< 0.05	< 0.01	< 1	< 0.1	0.21	< 0.01	< 0.01	0.03	< 0.05	4.43	42.1	< 0.05	< 0.001	< 0.1	0.007	1	< 1	1	< 0.2	< 1	1
EPA 01	N	4/2/1992	6,800.50	6.10	7.35	4238	566	365	188	12.3	462	2813	34.5	0.46	< 0.01	< 1	< 0.1	0.175	< 0.01	0.01	0.03	< 0.05	4.76	41.3	< 0.05	< 0.001	< 0.1	0.092	< 0.2	< 1	0	< 0.2	1.3	< 1
EPA 01	N	7/15/1992	6,799.10	6.20	7.01	4765	582	375	173	11.5	459	2868	36.1	0.42	< 0.1	< 1	< 0.1	0.176	< 0.01	0.01	0.03	< 0.05	4.68	36.9	< 0.05	< 0.001	< 0.1	0.007	0.6	< 1	0.6	< 0.2	< 1	< 1
EPA 01	N	10/14/1992	6,798.60	6.30	6.93	4708	567	342	155	11.5	425	3104	35.5	0.53	< 0.1	< 1	0.12	0.303	< 0.01	< 0.01	0.02	< 0.05	4.45	35	< 0.05	< 0.001	< 0.1	0.011	0.5	< 1	0.5	< 0.2	< 1	< 1
EPA 01	N	1/13/1993	6,798.10	6.30	6.96	4557	574	320	171	12.5	423	2834	36	0.48	< 0.1	< 1	< 0.1	0.059	< 0.01	0.01	< 0.01	< 0.05	4.07	31.2	< 0.05	< 0.001	< 0.1	0.004	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 01	N	4/15/1993	6,797.90	6.30	8.00	4149	532	376	165	9.2	373	2836	31.2	0.17	0.6	< 1	< 0.1	0.06	< 0.01	< 0.01	< 0.01	< 0.05	4.31	35.3	0.06	< 0.001	< 0.1	0.016	< 0.2	3.1	3.1	< 0.2	< 1	< 1
EPA 01	N	7/20/1993	6,797.50	6.40	7.10	4178	601	326	145	10.7	421	2769	33	0.24	< 0.1	< 1	< 0.1	0.047	< 0.01	< 0.01	< 0.01	< 0.05	4.31	31.9	< 0.05	< 0.001	< 0.1	0.021	< 0.2	2	2	< 0.2	4.7	< 1
EPA 01	N	10/12/1993	6,796.30	6.80	6.92	4118	578	326	155	9.2	404	2815	30.2	0.08	< 0.1	< 1	< 0.1	0.107	< 0.01	0.01	0.02	< 0.05	3.47	35.5	< 0.05	< 0.001	< 0.1	0.009	0.8	< 1	0.8	< 0.2	< 1	< 1
EPA 01	N	1/11/1994	6,796.90	6.70	7.66	4656	566	339	132	9.1	333	3005	28.4	< 0.05	0.6	< 1	< 0.1	0.05	< 0.01	< 0.01	0.02	< 0.05	3.84	39.7	0.19	< 0.001	< 0.1	0.017	< 0.2	5.4	5.4	< 0.2	1.8	9.1
EPA 01	N	4/20/1994	6,796.50	6.60	6.67	4260	560	342	132	8.7	345	2874	27.6	0.62	0.16	< 1	< 0.1	0.071	< 0.01	< 0.01	< 0.01	< 0.05	3.02	28.1	< 0.05	< 0.001	< 0.1	0.008	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 01	N	7/26/1994	6,797.40	6.70	7.51	4000	570	348	129	8.8	328	2726	27.6	0.12	0.14	< 1	< 0.1	0.055	< 0.01	< 0.01	0.05	< 0.05	4.13	30	0.14	< 0.001	< 0.1	0.008	0.8	2.6	3.4	< 0.2	1.4	4.9
EPA 01	N	10/11/1994	6,795.90	6.70	7.84	4596	622	383	157	10.3	349	3145	26.6	0.36	0.58	< 1	< 0.1	0.05	< 0.01	< 0.01	0.05	< 0.05	3.47	31.5	0.12	< 0.001	< 0.1	0.01	< 0.2	< 1	0	< 0.2	3.5	< 1
EPA 01	N	1/10/1995	6,795.60	6.60	7.60	4626	705	261	144	12	309	2941	28.9	0.46	0.44	< 1	< 0.1	0.069	< 0.01	< 0.01	0.05	< 0.05	3.6	34.1	0.2	< 0.001	< 0.1	0.009	0.3	1.3	1.6	< 0.2	1.1	2.4
EPA 01	N	4/11/1995	6,795.90	6.80	6.98	4431	616	318	131	9.6	360	2885	31.9	0.57	0.12	< 1	< 0.1	0.036	< 0.01	< 0.01	0.03	< 0.05	3.58	26.4	0.05	< 0.001	< 0.1	0.005	0.2	< 1	0.2	< 0.2	< 1	< 1
EPA 01	N	7/11/1995	6,795.30	7.00	7.93	4039	595	356	132	9.6	367	2673	28.7	0.36	0.52	< 1	< 0.1	0.043	< 0.01	< 0.01	< 0.01	< 0.05	3.59	28.1	< 0.05	< 0.001	< 0.1	0.006	< 0.2	< 1	0	< 0.2	11	1.1
EPA 01	N	10/10/1995	6,795.20	6.90	7.81	4065	600	355	144	10.1	334	2730	24.5	0.31	0.24	< 1	< 0.1	0.037	< 0.01	< 0.01	0.04	< 0.05	3.6	28.1	0.07	< 0.001	< 0.1	0.012	< 0.2	< 1	0	< 0.2	2.7	1.3
EPA 01	N	1/10/1996	6,794.90	7.10	7.34	4572	595	360	129	9.1	276	2935	33	0.06	0.31	< 1	< 0.1	0.016	< 0.01	< 0.01	0.04	< 0.05	3.48	26.9	0.08	< 0.001	< 0.1	0.0098	0.6	< 1	0.6	< 0.2	< 1	< 1
EPA 01	N	4/10/1996	6,794.80	7.50	7.88	4540	615	370	128	10.2	248	3000	26.1	0.07	0.22	< 1	< 0.1	0.017	< 0.01	< 0.01	0.05	< 0.05	3.21	28.5	0.09	< 0.001	< 0.1	0.012	0.3	1.7	2	< 0.2	< 1	< 1
EPA 01	N	7/17/1996	6,794.70	7.00	7.29	4458	560	330	135	10.4	242	2925	25.2	0.05	< 0.1	< 1	< 0.1	0.015	< 0.01	< 0.01	0.1	< 0.05	3.54	24.6	0.18	< 0.001	< 0.1	0.0087	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 01	N	10/8/1996	6,794.50	7.00	7.43	4440	635	377	134	10.2	248	2926	24.1	0.11	< 0.1	< 1	< 0.1	0.019	< 0.01	< 0.01	0.11	< 0.05	3.34	23.8	0.2	< 0.001	< 0.1	0.0078	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 01	N	7/15/1997	6,801.00	6.10	7.67	4630	628	375	134	10.4	200	3000	25.2	0.08	0.14	< 1	< 0.1	0.009	< 0.01	< 0.01	0.18	< 0.05	4.04	11.5	0.18	< 0.001	< 0.1	0.008	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 01	N	10/15/1997	6,794.80	no data	7.87	4600	638	394	137	10.2	196	3050	31.4	0.54	0.24	< 1	< 0.1	0.01	< 0.01	< 0.01	0.28	< 0.05	4.73	10.4	0.21	< 0.001	< 0.1	0.01	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 03	N	7/26/1989	6,895.60	6.80	5.83	4839	587	465	118	10.5	168	3358	25.1	0.31	0.02	< 1	< 0.1	0.003	< 0.05	< 0.01	0.03	0.07	5.6	< 0.1	< 0.05	< 0.001	< 0.1	0.0103	1.5	< 1	1.5	2.3	< 1	4.3
EPA 03	N	10/5/1989	6,894.90	6.30	6.52	4742	507	438	115	13.9	159	3131	24.6	0.27	0.09	< 1	< 0.1	0.017	< 0.05	< 0.01	0.02	< 0.05	4.8	0.05	< 0.05	< 0.001	< 0.1	0.016	1.5	< 1	1.5	< 0.2	< 1	< 1
EPA 03	N	1/23/1990	6,892.80	6.80	6.29	5594	616	494	148	12.9	159	3620	26.3	0.51	0.1	< 1	< 0.1	0.003	< 0.05	< 0.01	0.11	< 0.05	6.1	0.29	0.05	< 0.001	< 0.1	0.049	1.5	< 1	1.5	4.7	< 1	6.1
EPA 03	N	4/18/1990	6,891.70	6.40	7.00	5639	560	523	130	11.1	45.5	3653	28.9	0.57	0.04	< 1	< 0.1	0.024	< 0.05	< 0.01	0.07	< 0.05	7.2	< 0.1	< 0.05	< 0.001	< 0.1	0.026	1	< 1	1	< 0.2	1.9	1.6
EPA 03	N	7/17/1990	6,890.50	6.70	6.10	5385	600	536	120	11.9	139	3368	23.6	0.28	0.04	< 1	< 0.1	0.016	< 0.05	< 0.01	0.04	< 0.05	6.78	< 0.1	< 0.05	< 0.001	< 0.1	0.033	< 0.2	< 1	0	3.2	< 1	3
EPA 03	N	10/16/1990	6,889.50	6.50	6.60	4846	517	468	127	13	142	3253	29.7	0.26	0.02	< 1	< 0.1	0.001	< 0.05	< 0.01	0.03	< 0.05	5.9	0.1	< 0.05	< 0.001	< 0.1	0.0192	0.8	< 1	0.8	< 0.2	< 1	< 1
EPA 03	N	1/8/1991	6,888.80	6.60	6.25	4646	532	481	119	22	145	3002	27.3	0.23	0.07	< 1	0.2	0.006	< 0.01	< 0.01	0.05	< 0.05	6.07	0.16	0.05	< 0.001	< 0.1	0.024	1.1	< 1	1.1	< 0.2	< 1	1
EPA 03	N	4/17/1991	6,888.30	6.60	6.99	4392	513	349	120	14.1	142	2888	25.6	0.21	0.02	< 1	0.25	0.008	< 0.01	< 0.01	0.03	< 0.05	4.24	0.17	< 0.05	< 0.001	< 0.1	0.025	0.6	< 1	0.6	< 0.2	< 1	3
EPA 03	N	7/3/1991	6,887.70	6.60	6.42	3939	467	353	112	11	137	2885	31.2	0.35	0.03	< 1	0.2	0.008	< 0.01	< 0.01	0.03	< 0.05	3.96	0.25	< 0.05	< 0.001	< 0.1	0.0226	0.8	< 1	0.8	< 0.2	< 1	< 1
EPA 03	N	10/22/1991	6,887.00	6.60	6.51	3752	493	264	116	13.4	139	2485	24.2	0.18	0.02	< 1	0.22	0.001	< 0.01	< 0.01	0.02	< 0.05	2.87	0.24	< 0.05	< 0.001	< 0.1	0.0145	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 09	N	7/26/1989	6,911.00	6.10	5.54	5122	543	558	122	11.9	122	3598	28.1	0.43	0.07	< 1	0.22	< 0.001	< 0.05	< 0.01	0.12	< 0.05	4.5	< 0.1	0.09	< 0.001	< 0.1	0.002	5	1.7	6.7	6.5	2.1	4.1
EPA 09	N	10/5/1989	6,911.20	4.80	6.06	5382	507	580	118	15	92.5	3566	28.3	0.62	0.07	< 1	1	< 0.001	< 0.05	< 0.01	0.11	< 0.05	4	< 0.01	0.08	< 0.001	< 0.1	0.003	6	< 1	6	2.2	< 1	9.1
EPA 09	N	1/16/1990	6,911.20	5.70	6.15	4982	458	498	125	12	214	3210	23.8	0.38	0.15	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.08	< 0.05	2.8	< 0.01	< 0.05	< 0.001	< 0.1	0.003	2.1	1	3.1	< 0.2	< 1	2.5
EPA 09	N	4/17/1990	6,911.10	5.50	6.00	5133	479	492	130	11.5	274	3261	28	0.46	0.18	< 1	0.25	0.001	< 0.05	0.01	0.09	< 0.05	3.7	< 0.1	0.05	< 0.001	< 0.1	0.002	4.2	< 1	4.2	< 0.2	< 1	4.6
EPA 09	N	7/17/1990	6,910.80	4.90	4.30	5971	494	619	115	11.7	< 1	4248	26.8	0.45	0.03	< 1	8	< 0.009	< 0.05	< 0.01	0.21	< 0.05	6.79	< 0.1	0.19	< 0.001	< 0.1	0.0078	12.3	8.1	20.4	< 0.2	< 1	10
EPA 09	N	10/16/1990	6,910.90	4.70	4.29	5548	494	554	117	12.5	50	3753	33.7	0.41	0.02	< 1	1.1	0.001	< 0.05	< 0.01	0.14	< 0.05	4.74	< 0.1	0.16	< 0.001	< 0.1	0.0021	8.9	4.7	13.6	< 0.2	< 1	9
EPA 09	N	1/8/1991	6,910.70	5.30	6.19	5309	548	569	131	16	105	3561	31.1	0.49	< 0.01	< 1	0.61	< 0.001	< 0.01	< 0.01	0.29	< 0.05	6.35	< 0.1	0.29	< 0.001	< 0.1	0.0562	3.7	1.5	5.2	< 0.2	< 1	4
EPA 09	N	4/17/1991	6,910.90	5.30	6.25	5360	458	543	124	13.2	68	3576	27.3	0.43	0.03	< 1	4.9	< 0.001	< 0.01	< 0.01	0.24	< 0.05	5.77	< 0.1	0.25	< 0.001	< 0.1	0.022	13.5	5.8	19.3	< 0.2	< 1	14
EPA 09	N	7/3/1991	6,910.70	4.80	6.27	4927	453	516	107	10.2	121	3446	37.7	0.5	0.2	< 1	1.52	0.002	< 0.01	< 0.01	0.19	< 0.05	5.09	< 0.1	0.17	< 0.001	< 0.1	0.0137	6.6	5	11.6	< 0.2	< 1	7
EPA 09	N	10/22/1991	6,910.80	5.00	5.97	5269	475	501	119	11.1	122	3555	33.2	0.42	< 0.01	< 1	1.58	0.001	< 0.01	< 0.01	0.12	< 0.05	4.48	< 0.1	0.1	< 0.001	< 0.1	0.0062	4.1	< 1	4.1	< 0.2	2.7	4
EPA 09	N	1/22/1992	6,911.60	5.20	5.29	6127	484	567	110	11.1	14.7	4132	27.7	0.93	0.49	< 1	1.01	0.013	< 0.01	< 0.01	0.21	< 0.05	6.16	< 0.1	0.22	< 0.001	< 0.1	0.007	5.2	4	9.2	< 0.2	< 1	5
EPA 09	N	4/2/1992	6,910.60	5.40	6.61	5681	576	609	133	15.1	60.9	4137	34.4	0.73	< 0.1	< 1	2.5	0.014	0.02	0.02	0.02	< 0.05	7.86	0.1	0.29	< 0.001	< 0.1	0.002	8.1	4.1	12.2	< 0.2	< 1	0.4
EPA 09	N	7/15/1992	6,909.70	5.80	3.88	6008	496	573	122	12.4	< 1	3956	66.8	0.28	0.1	< 1	1.25	0.01	< 0.01	< 0.01	0.23	< 0.05	6.61	< 0.1	0.22	< 0.001	< 0.1	0.006	5.4	9	14.4	< 0.2	1.3	5.9
EPA 09	N	10/14/1992	6,909.70	5.30	3.90	6070	479	537	109	12	< 1	3996	51	0.45	< 0.1	< 1	2.36	0.018	< 0.01	< 0.01	0.28	< 0.05	7.63	< 0.1	0.27	< 0.001	< 0.1	0.002	9.6	8.9	18.5	< 0.2	< 1	9.9
EPA 09	N	1/13/1993	6,909.50	5.60	7.06	5015	493	475	116	12.1	105	3403	24.4	0.67	< 0.1	< 1	< 0.1	0.003	< 0.01	< 0.01	0.04	< 0.05	2.66	0.14	0.1	< 0.001	< 0.1	0.005	3.8	6.9	10.7	< 0.2	< 1	4.1
EPA 09	N	4/15/1993	6,909.60	5.30	6.44	4596	425	494	126	9.9	62.3	3487	27.9	0.45	0.2	< 1	0.18	< 0.001	< 0.01	< 0.01	0.08	< 0.05	3.16	< 0.1	0.08	< 0.001	< 0.1	0.002	3.1	2.3	5.4	< 0.2	< 1	3.4
EPA 09	N	7/20/1993	6,909.80	5.60	5.94	4554	493	464	117	10.9	54.8	3250	30	0.25	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.07	< 0.05	3.08	0.11	< 0.05	< 0.001	< 0.1	0.006	3.3	5	8.3	< 0.2	< 1	3.5
EPA 09	N	10/12/1993	6,907.00	5.90	5.89	4633	497	490	115	10.8	86.4	3399	27.3	0.42	< 0.1	< 1	1.22	< 0.001	< 0.01	< 0.01	0.14	< 0.05	4.41	< 0.1	0.14	< 0.001	< 0.1	0.005	8.8	7.8	16.6	< 0.2	1.2	10
EPA 09	N	1/12/1994	6,908.00	4.40	2.87	5738	535	556	101	11.8	< 1	4110	55.2	0.58	0.13	< 1	31.1	0.029	0.09	< 0.01	0.6	< 0.05	9.64	0.42	0.85	< 0.001	< 0.1	0.122	15.7	11	26.7	< 0.2	< 1	33.2
EPA 09	N	4/20/1994	6,908.70	5.40	3.62	5771	550	556	108	10	< 1	4149	30	1.82	< 0.1	< 1	3.3	0.021	< 0.01	< 0.01	0.21	< 0.05	6.9	0.19	0.24	< 0.001	< 0.1	0.003	13.6	8.4	22	< 0.2	< 1	26.4
EPA 09	N	7/26/1994	6,909.50	5.20	6.16	4732	540	479	115	10.3	31.3	3472	28	0.46	< 0.1	< 1	0.81	< 0.001	< 0.01	< 0.01	0.1	< 0.05	4.29	0.11	< 0.05	< 0.001	< 0.1	0.001	5.4	5	10.4	< 0.2	< 1	13.1
EPA 09	N	10/11/1994	6,908.40	5.00	3.63	5664	508	603	119	11.3	< 1	4045	28.7	1.08	< 0.1	< 1	1.1	< 0.001	< 0.01	< 0.01	0.15	< 0.05	4.49	< 0.1	0.15	< 0.001	< 0.1	0.002	8.4	1.4	9.8	< 0.2	5	10.7
EPA 09	N	1/10/1995	6,908.20	5.30	4.92	6144	560	650	117	13.3	10.3	4239	28.9	1.78	< 0.1	< 1	5.54	0.012	< 0.01	< 0.01	0.27	< 0.05	7.76	< 0.1	0.28	< 0.001	< 0.1	0.003	18.9	6.1	25	< 0.2	1.2	28.2
EPA 09	N	4/11/1995	6,908.60	6.20	6.04	5264	550	526	120	11.5	119	3500	15.7	1.15	< 0.1	< 1	0.18	0.002	< 0.01	< 0.01	0.07	< 0.05	3.59	< 0.1	< 0.05	< 0.001	< 0.1	0.001	3.7	3.2	6.9	< 0.2	< 1	8.5
EPA 09	N	7/11/1995	6,907.90	5.90	6.06	5046	498	540	120	11.5	34.1	3485	29.8	1.04	< 0.1	< 1	< 0.1	0.003	< 0.01	< 0.01	0.022	< 0.05	0.85	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	5.1	3	8.1	0.4	< 1	16.7
EPA 09	N	10/10/1995	6,908.00	5.70	6.95	5003	510	530	120	11.6	70.8	3475	27	0.88	< 0.1	< 1	0.15	0.001	< 0.01	< 0.01	0.08	< 0.05	3.88	< 0.1	0.07	< 0.001	< 0.1	0.0015	5	< 1	5	< 0.2	< 1	11.4

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**80**	**NA**	**0.757**	**0.05**	**0.09**	**NA**	**0.08**	**NA**	**NA**	**0.569**	**0.01**	**0.1**	**0.395**	**NA**	**NA**	**35.2**	**17**	**5.7**	**39.7**
		EPA Standard	**NA**	**NA**	**NA**	**8592**	**NA**	**NA**	**NA**	**NA**	**5693**	**250**	**NA**	**190**	**80**	**5**	**0.757**	**0.004**	**0.09**	**0.391**	**0.08**	**9.1**	**66.1**	**0.569**	**0.05**	**0.1**	**0.395**	**NA**	**NA**	**35.2**	**17**	**5.7**	**39.7**
EPA 09	N	1/9/1996	6,907.60	5.60	5.94	5085	485	550	109	11.3	52.8	3790	28.4	0.24	< 0.1	< 1	1.87	< 0.001	< 0.01	< 0.01	0.17	< 0.05	5.15	< 0.1	0.14	< 0.001	< 0.1	0.0024	9	4.9	13.9	< 0.2	< 1	8.7
EPA 09	N	4/10/1996	6,907.60	5.90	6.20	5494	525	575	107	11.7	27.5	3905	28.2	0.35	< 0.1	< 1	0.34	0.001	< 0.01	< 0.01	0.11	< 0.05	4.2	< 0.1	0.09	< 0.001	< 0.1	0.0008	6.6	2.3	8.9	< 0.2	< 1	10.2
EPA 09	N	7/17/1996	6,907.40	5.90	5.58	5615	505	555	117	12.1	23.4	3816	32	0.31	< 0.1	< 1	0.56	< 0.001	< 0.01	< 0.01	0.15	< 0.05	4.94	< 0.1	0.12	< 0.001	< 0.1	0.0007	8	3.8	11.8	< 0.2	< 1	7.3
EPA 09	N	10/8/1996	6,907.40	5.70	4.44	5590	542	609	116	12.1	< 1	3943	29	0.33	< 0.1	< 1	0.5	0.001	< 0.01	< 0.01	0.13	< 0.05	4.61	< 0.1	0.11	< 0.001	< 0.1	< 0.0003	6.6	9	15.6	< 0.2	< 1	9.2
EPA 09	N	1/28/1997	6,912.30	5.80	6.07	5510	500	545	109	11.7	29.3	3695	30.8	0.35	< 0.1	< 1	0.5	< 0.001	< 0.01	< 0.01	0.12	< 0.05	4.25	< 0.1	0.09	0.002	< 0.1	< 0.0003	8.8	8.1	16.9	2.7	< 1	10.7
EPA 09	N	4/15/1997	6,907.20	5.40	5.72	5740	532	616	112	12.1	21.2	4040	31.3	0.38	< 0.1	1	0.81	< 0.001	< 0.01	< 0.01	0.15	< 0.05	5.03	< 0.1	0.12	< 0.001	< 0.1	< 0.0003	10.6	6.6	17.2	< 0.2	< 1	14.3
EPA 09	N	7/15/1997	6,906.80	5.20	5.27	5780	515	606	109	12	7.4	3560	32.5	0.39	< 0.1	< 1	1.47	0.003	< 0.01	< 0.01	0.17	< 0.05	5.22	< 0.1	0.14	< 0.001	< 0.1	< 0.0003	12	6.3	18.3	< 0.2	< 1	13
EPA 09	N	10/15/1997	6,906.70	5.60	4.49	5860	507	632	110	11.7	< 0.1	3990	37.7	0.54	< 0.1	< 1	2.44	0.002	< 0.01	< 0.01	0.21	< 0.05	6.12	< 0.1	0.16	0.001	< 0.1	0.001	10.8	14.6	25.4	< 0.2	5.5	14.1
EPA 09	N	1/20/1998	6,907.10	4.80	5.64	5570	504	595	119	13.1	9.27	4200	34.4	0.82	< 0.1	< 1	1.61	< 0.001	< 0.01	< 0.005	0.22	< 0.05	6.33	< 0.1	0.15	< 0.001	< 0.1	0.0008	12.6	9.5	22.1	< 0.2	< 1	12.3
EPA 09	N	4/14/1998	6,906.80	4.90	4.22	5840	510	610	107	11.3	< 0.1	3720	30.7	0.5	< 0.1	< 1	1.8	0.003	< 0.01	< 0.005	0.18	< 0.05	5.5	< 0.1	0.16	< 0.001	< 0.1	0.0008	12.5	7.2	19.7	< 0.2	< 1	15.9
EPA 09	N	7/14/1998	6,906.60	4.60	4.45	5820	488	611	115	12.3	< 0.1	3700	30.1	0.52	< 0.1	< 1	2.66	0.004	< 0.01	< 0.005	0.19	< 0.05	6.28	< 0.1	0.15	< 0.001	< 0.1	0.0012	12.5	6.3	18.8	< 0.2	< 1	15.1
EPA 09	N	10/13/1998	6,907.90	3.83	4.56	5820	484	622	116	12.6	1.2	4000	29.1	1.08	0.23	< 1	2.84	0.002	< 0.01	< 0.005	0.19	< 0.05	5.67	< 0.1	0.15	< 0.001	< 0.1	0.0008	11.8	8	19.8	< 0.2	< 1	18.9
EPA 09	N	1/12/1999	6,917.50	4.30	4.58	5870	423	601	107	11.8	< 0.1	4000	28.9	0.55	< 0.1	< 1	2.9	0.005	< 0.01	< 0.005	0.19	< 0.05	5.82	< 0.1	0.14	< 0.001	< 0.1	0.0017	10.9	6.6	17.5	< 0.2	10.6	10.6
EPA 09	N	4/13/1999	6,907.80	4.10	4.45	5860	472	624	105	11.8	< 0.1	3750	38.9	0.66	< 0.1	< 1	3.42	< 0.001	< 0.01	< 0.005	0.22	< 0.05	6.28	< 0.1	0.16	< 0.001	< 0.1	0.0015	11.9	12.2	24.1	< 0.2	< 1	17.4
EPA 09	N	7/20/1999	6,907.51	3.80	4.18	5930	492	634	104	13.1	< 0.1	3860	32.9	0.48	< 0.1	< 1	2.8	0.002	< 0.01	< 0.005	0.17	< 0.05	4.9	< 0.1	0.13	< 0.001	< 0.1	0.0013	12.7	8.4	21.1	< 0.2	< 1	13.5
EPA 09	N	10/12/1999	6,907.40	4.90	4.47	5860	459	591	108	11.6	< 0.1	3680	32.6	0.57	< 0.1	< 1	3.44	0.014	< 0.01	< 0.005	0.17	< 0.05	5.84	< 0.1	0.12	< 0.001	< 0.1	< 0.0003	12.7	10.4	23.1	< 0.2	< 1	17.4
EPA 09	N	1/11/2000	6,907.80	4.20	4.25	5790	460	610	103	12.2	< 0.1	3690	31.7	0.62	< 0.1	< 1	4.12	< 0.001	0.01	< 0.005	0.21	< 0.05	6.52	< 0.1	0.2	< 0.001	< 0.1	0.0013	12.6	8.5	21.1	< 0.2	< 1	16.2
EPA 11	N	7/25/1989	6,854.60	5.90	5.90	4245	587	337	151	10.1	176	2757	29.9	0.56	0.02	no data	0.42	0.137	<0.05	<0.01	0.24	<0.05	3.3	68	0.45	<0.001	<0.01	0.010	5.4	2.2	7.6	5.8	<1	5.3
EPA 11	N	10/4/1989	6,854.20	5.80	6.30	4392	565	349	142	12.6	189	2826	28.3	0.48	0.01	no data	0.49	0.604	<0.05	<0.01	0.22	<0.05	3.2	50	0.46	<0.001	<0.1	0.014	5.3	2.8	8.1	0.5	<1	6.1
EPA 11	N	1/16/1990	6,853.00	5.60	5.88	4406	515	335	150	10.4	177	2813	30.3	0.55	0.07	no data	0.22	0.481	<0.05	<0.01	0.23	<0.05	3.3	50	0.49	<0.001	<0.1	0.008	5.6	3.6	9.2	0.7	<1	7.1
EPA 11	N	4/17/1990	6,852.00	6.00	6.38	4505	538	344	148	10.3	177	2649	31.8	0.6	0.07	no data	0.34	0.357	<0.05	<0.01	0.23	<0.05	3.1	46	0.48	<0.001	<0.1	0.010	6.8	1	7.8	<0.2	<1	6.8
EPA 12	N	7/25/1989	6,865.90	6.10	5.96	4722	582	430	151	9.7	139	3151	30.2	0.38	0.02	< 1	< 0.1	0.001	< 0.05	< 0.01	0.11	< 0.05	4.1	7.6	0.3	< 0.001	< 0.1	0.0017	5.7	2.6	8.3	3.4	< 1	7.1
EPA 12	N	10/4/1989	6,865.80	5.90	6.40	4742	534	414	132	10.9	167	3039	26.4	0.37	0.03	< 1	0.11	0.001	< 0.05	< 0.01	0.11	< 0.05	3.5	6.3	0.27	< 0.001	< 0.1	0.004	5.9	3.1	9	2.2	2	13
EPA 12	N	1/16/1990	6,864.80	5.90	6.01	4712	505	392	148	9.82	146	3074	27.1	0.4	0.7	< 1	< 0.1	0.002	< 0.05	< 0.01	0.13	< 0.05	3.5	6.7	0.24	< 0.001	< 0.1	0.004	5	3.6	8.6	< 0.2	< 1	5.5
EPA 12	N	4/17/1990	6,863.90	5.90	6.47	4757	521	402	143	9.2	170	2989	27	0.41	0.15	< 1	< 0.1	0.002	< 0.05	< 0.01	0.08	< 0.05	3.5	5.3	0.2	< 0.001	< 0.1	0.003	6.3	5.8	12.1	< 0.2	< 1	6.5
EPA 12	N	7/12/1990	6,862.80	6.00	6.26	4839	532	437	143	10	139	2754	27.9	0.27	0.12	< 1	< 0.1	0.084	< 0.05	< 0.01	0.1	< 0.05	3.5	7.01	0.19	< 0.001	< 0.1	0.0029	6.8	6.5	13.3	< 0.2	2.4	< 1
EPA 12	N	10/16/1990	6,862.20	6.00	6.65	4816	491	409	146	10.7	142	3102	29	0.32	0.07	< 1	< 0.1	0.095	< 0.05	< 0.01	0.13	< 0.05	3.35	6.54	0.19	< 0.001	< 0.1	0.0007	5.2	9.2	14.4	< 0.2	< 1	5
EPA 12	N	1/8/1991	6,861.40	6.00	6.29	4828	536	429	144	24	140	3100	27.3	0.48	0.07	< 1	0.1	0.004	< 0.01	< 0.01	0.12	< 0.05	3.06	3.87	0.21	0.001	< 0.1	0.0036	4.2	1	5.2	< 0.2	< 1	4
EPA 12	N	4/16/1991	6,861.00	5.90	6.86	4863	527	429	137	8.5	109	3204	27.6	0.31	0.1	< 1	0.14	0.066	< 0.01	< 0.01	0.14	< 0.05	3.68	6.26	0.21	< 0.001	< 0.1	0.001	8.3	8.4	16.7	< 0.2	2	8
EPA 12	N	7/3/1991	6,860.40	5.80	6.32	4623	486	409	133	8	119	3257	25.1	0.41	0.03	< 1	0.34	0.055	< 0.01	< 0.01	0.1	< 0.05	2.97	3.82	0.17	< 0.001	< 0.1	0.001	4.9	3.8	8.7	< 0.2	< 1	5
EPA 12	N	10/22/1991	6,859.70	5.80	6.28	4884	507	423	140	8.5	139	3226	29.5	0.16	< 0.01	< 1	0.2	0.054	< 0.01	< 0.01	0.11	< 0.05	3.32	3.32	0.17	< 0.001	< 0.1	< 0.0003	4.8	< 1	4.8	< 0.2	< 1	5
EPA 12	N	1/22/1992	6,858.40	5.90	6.24	5060	531	423	130	8.2	75.4	3162	24.8	1.72	< 0.01	< 1	< 0.1	0.036	< 0.01	< 0.01	0.12	< 0.05	3.02	3.7	0.17	< 0.001	< 0.1	0.007	7.7	6.8	14.5	< 0.2	< 1	8
EPA 12	N	4/2/1992	6,857.50	5.60	7.04	4820	523	457	167	11.1	122	3297	23.4	1.5	< 0.1	< 1	< 0.1	0.026	< 0.01	< 0.01	0.14	< 0.05	3.31	2.4	0.16	< 0.001	< 0.1	< 0.0003	6.3	8	14.3	< 0.2	1.1	6.5
EPA 12	N	7/15/1992	6,856.00	5.80	7.22	5073	495	438	149	9.3	50	3264	23.8	0.23	< 0.1	< 1	< 0.1	0.013	< 0.01	< 0.01	0.13	< 0.05	3.1	1.9	0.14	< 0.001	< 0.1	0.007	6.3	13	19.3	< 0.2	< 1	6.5
EPA 13	N	7/25/1989	6,881.30	5.50	5.56	5054	576	479	136	11.8	31.7	3454	29.7	0.84	14.1	< 1	0.21	0.007	< 0.05	< 0.01	0.47	< 0.05	6.2	1.5	0.59	< 0.001	< 0.1	0.006	5.9	3	8.9	6.4	2.7	5.3
EPA 13	N	10/4/1989	6,880.40	5.50	6.40	4736	550	407	129	15.1	86.1	3180	27.6	0.51	26	< 1	0.42	0.012	< 0.05	< 0.01	0.23	< 0.05	3.4	1.5	0.37	< 0.001	< 0.1	< 0.028	4.7	3.6	8.3	0.8	< 1	5.9
EPA 13	N	1/16/1990	6,878.50	5.10	5.30	5042	482	477	128	12.3	14.4	3420	26.4	0.96	4.6	< 1	0.19	0.021	< 0.05	< 0.01	0.42	0.06	6.4	0.51	0.6	0.001	< 0.1	0.009	4.6	7.3	11.9	< 0.2	< 1	5.1
EPA 13	N	4/17/1990	6,877.70	5.00	5.60	5256	496	485	122	11.8	66.6	3377	27.4	1.03	4.1	< 1	< 0.1	0.024	< 0.05	< 0.01	0.36	< 0.05	5.8	0.57	0.46	< 0.001	< 0.1	0.007	6.2	2.4	8.6	< 0.02	< 1	6.9
EPA 13	N	7/17/1990	6,876.80	5.30	5.60	5140	590	527	117	11.3	40	3253	25	0.51	10.8	< 1	0.24	0.033	< 0.05	< 0.01	0.25	< 0.05	5.5	0.69	0.33	< 0.001	< 0.1	0.0078	2.2	4.8	7	< 0.2	< 1	5
EPA 13	N	10/16/1990	6,876.10	5.70	5.98	5067	513	422	129	12.6	39	3355	31.1	0.57	6.8	< 1	0.1	0.016	< 0.05	< 0.01	0.22	< 0.05	5.21	0.8	0.34	< 0.001	< 0.1	0.0117	5.1	4.2	9.3	< 0.2	1.4	5
EPA 13	N	1/8/1991	6,875.20	5.40	5.73	5153	531	515	121	23	35	3432	29.4	0.95	9.6	< 1	0.74	0.066	< 0.01	< 0.01	0.21	< 0.05	6.62	0.81	0.39	< 0.001	< 0.1	0.0054	4.4	8	12.4	< 0.2	< 1	4
EPA 13	N	4/16/1991	6,874.80	5.30	5.53	5255	485	457	124	12.8	13	3460	49.5	1.05	5.6	< 1	< 0.1	0.031	< 0.01	< 0.01	0.33	< 0.05	7.16	0.89	0.36	< 0.001	< 0.1	0.004	3.3	8	11.3	< 0.2	< 1	3
EPA 13	N	7/3/1991	6,876.30	5.20	5.66	5240	472	473	109	10.4	25	3357	23.6	1.2	0.45	< 1	1.14	0.044	< 0.01	< 0.01	0.32	< 0.05	7.2	0.59	0.37	< 0.001	< 0.1	0.0029	3	1.2	4.2	< 0.2	< 1	3
EPA 13	N	10/22/1991	6,876.10	5.20	5.75	5409	488	466	114	11.3	39	3611	28.5	0.78	< 0.01	< 1	0.22	0.1	< 0.01	< 0.01	0.27	< 0.05	7.04	0.58	0.38	0.001	< 0.1	0.0156	4.2	< 1	4.2	< 0.2	2.3	4
EPA 13	N	1/22/1992	6,875.52	5.40	5.48	5640	502	496	115	10.6	15.1	3733	24.1	0.46	< 0.01	< 1	< 0.1	0.077	< 0.01	< 0.01	0.23	< 0.05	6.59	0.64	0.26	< 0.001	< 0.1	0.004	6.9	3.5	10.4	< 0.2	< 1	7
EPA 13	N	4/7/1992	6,875.22	5.40	6.79	5228	629	539	149	14.1	59.9	3924	26.7	0.92	< 0.1	< 1	0.2	0.134	< 0.01	0.02	0.21	< 0.05	6.56	0.8	0.3	< 0.001	< 0.1	0.004	4.2	7.5	11.7	< 0.2	1.3	4.3
EPA 13	N	7/15/1992	6,874.00	5.60	4.25	5888	541	556	131	11.5	< 1	3862	21.6	0.49	< 0.1	< 1	< 0.1	0.084	< 0.01	< 0.01	0.23	< 0.05	6.33	0.83	0.22	0.001	< 0.1	0.009	5.9	9.3	15.2	< 0.2	< 1	6.1
EPA 13	N	10/14/1992	6,873.50	5.80	5.25	6201	534	572	131	11.7	29.3	4186	32.7	0.58	< 0.1	< 1	0.58	0.175	< 0.01	< 0.01	0.21	< 0.05	6.43	0.9	0.2	< 0.001	< 0.1	0.002	4.7	8.7	13.4	< 0.2	1.2	4.9
EPA 13	N	1/14/1993	6,873.00	5.70	5.02	6412	636	738	128	12.4	92.3	4391	30.1	0.11	< 0.1	< 1	0.42	0.23	< 0.01	< 0.01	0.15	< 0.05	6.24	0.78	0.24	< 0.001	< 0.1	0.013	5.8	8.6	14.4	< 0.2	< 1	6.5
EPA 13	N	4/15/1993	6,872.00	5.80	5.81	5848	469	731	155	10	38	4315	27.6	0.64	< 0.1	< 1	< 0.1	0.186	< 0.01	< 0.01	0.14	< 0.05	5.81	0.59	0.2	< 0.001	< 0.1	0.017	3	7.7	10.7	< 0.2	< 1	3.5
EPA 13	N	7/20/1993	6,872.10	5.90	5.89	6564	535	817	137	10.9	28.5	4790	28.9	0.61	< 0.1	< 1	< 0.1	0.265	< 0.01	< 0.01	0.14	< 0.05	5.65	0.73	0.18	< 0.001	< 0.1	0.017	4.5	5.4	9.9	< 0.2	< 1	5.1
EPA 13	N	10/12/1993	6,869.80	6.20	5.38	6064	518	715	135	10.3	21	4387	30.4	0.56	< 0.1	< 1	< 0.1	0.154	< 0.01	< 0.01	0.11	< 0.05	5.51	0.6	0.14	< 0.001	< 0.1	0.024	5.4	5.5	10.9	< 0.2	< 1	6
EPA 13	N	1/11/1994	6,871.60	6.10	6.15	6208	510	696	145	9.8	57.2	4444	30	0.57	< 0.1	< 1	< 0.1	0.225	< 0.01	< 0.01	0.07	< 0.05	5.51	0.67	0.19	< 0.001	< 0.1	0.027	4.5	6.2	10.7	< 0.2	< 1	14.8
EPA 13	N	4/20/1994	6,871.60	6.00	6.00	6116	514	686	132	9.1	79.2	4436	30.7	1.33	< 0.1	< 1	< 0.1	0.262	< 0.01	< 0.01	0.09	< 0.05	4.69	0.48	0.14	< 0.001	< 0.1	0.023	5.1	9.9	15	< 0.2	< 1	20.1
EPA 13	N	7/26/1994	6,871.60	5.90	6.51	6088	528	782	154	10.9	67.6	4343	33.3	0.17	< 0.1	< 1	0.66	0.199	< 0.01	< 0.01	0.1	< 0.05	5.9	0.66	0.13	< 0.001	< 0.1	0.019	5.3	13.8	19.1	< 0.2	1.7	26.2
EPA 13	N	10/11/1994	6,870.40	5.90	6.46	6762	506	806	162	11	80.5	4784	34.7	0.97	< 0.1	< 1	< 0.1	0.192	< 0.01	< 0.01	0.11	< 0.05	5.26	0.57	0.13	< 0.001	< 0.1	0.022	5.6	6.5	12.1	< 0.2	< 1	19.5
EPA 13	N	1/10/1995	6,869.90	6.00	6.57	6748	545	815	142	12	98.6	4810	34	1.28	< 0.1	< 1	< 0.1	0.253	< 0.01	< 0.01	0.14	< 0.05	5.88	0.82	0.17	< 0.001	< 0.1	0.024	7.7	8.3	16	< 0.2	< 1	20.3
EPA 13	N	4/11/1995	6,870.20	6.20	6.13	6718	522	714	154	11	94.5	4729	40	1.36	< 0.1	< 1	< 0.1	0.23	< 0.01	< 0.01	0.06	< 0.05	5.82	0.47	0.1	< 0.001	< 0.1	0.022	4.8	9.5	14.3	< 0.2	< 1	19.1
EPA 13	N	7/11/1995	6,869.40	6.90	6.61	6107	500	814	141	10.5	67.1	4435	37.7	1.14	< 0.1	< 1	< 0.1	0.255	< 0.01	< 0.01	0.016	< 0.05	1.26	< 0.1	< 0.05	< 0.001	< 0.1	0.024	4.7	12.3	17	0.4	2.8	15.9
EPA 13	N	10/10/1995	6,869.30	6.20	6.85	6119	485	730	154	11.2	78.1	4340	33.6	1.12	< 0.1	< 1	< 0.1	0.225	< 0.01	< 0.01	0.05	< 0.05	5.91	0.38	0.12	< 0.001	< 0.1	0.026	4.9	1.7	6.6	< 0.2	1.1	11.8

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
EPA 13	N	1/9/1996	6,868.90	6.30	6.47	6144	465	730	141	10.4	95	4440	33.6	0.45	< 0.1	< 1	< 0.1	0.227	< 0.01	< 0.01	< 0.01	< 0.05	1.19	< 0.1	< 0.05	< 0.001	< 0.1	0.028	5.3	8.2	13.5	< 0.2	< 1	5.4
EPA 13	N	4/10/1996	6,867.30	6.80	7.09	6642	544	877	148	11.1	85.8	5040	35.9	0.53	< 0.1	< 1	< 0.1	0.295	< 0.01	< 0.01	0.06	< 0.05	5.65	0.35	0.11	< 0.001	< 0.1	0.029	4.3	10.6	14.9	< 0.2	< 1	7.6
EPA 13	N	7/17/1996	6,868.70	6.20	6.23	6694	468	761	149	11.7	74.5	4320	39	0.45	< 0.1	< 1	< 0.1	0.269	< 0.01	< 0.01	0.06	< 0.05	5.94	0.41	0.12	< 0.001	< 0.1	0.022	3.3	15.4	18.7	0.7	< 1	6
EPA 13	N	10/8/1996	6,868.50	6.30	6.32	6670	519	830	151	11.5	79.1	4689	36	0.5	< 0.1	< 1	< 0.1	0.301	< 0.01	< 0.01	0.06	< 0.05	5.71	0.34	0.12	< 0.001	< 0.1	0.027	3.6	7.9	11.5	< 0.2	< 1	4.4
EPA 13	N	1/28/1997	6,868.20	6.50	6.95	6570	512	800	132	10.9	101	4570	50.1	0.48	< 0.1	< 1	< 0.1	0.43	< 0.01	< 0.01	0.06	< 0.05	5.96	0.4	0.12	0.003	< 0.1	0.019	4.4	10	14.4	1.5	< 1	4.7
EPA 13	N	4/15/1997	6,868.00	6.30	6.79	6750	510	828	145	11.6	100	4740	39.2	0.51	< 0.1	1	< 0.1	0.331	< 0.01	< 0.01	0.05	< 0.05	5.87	0.34	0.12	< 0.001	< 0.1	0.013	4.5	11	15.5	< 0.2	< 1	7.8
EPA 13	N	7/15/1997	6,868.00	6.20	7.02	6740	499	795	145	11.6	83.7	4620	38.7	0.48	< 0.1	< 1	< 0.1	0.464	< 0.01	< 0.01	0.05	< 0.05	5.46	0.35	0.1	< 0.001	< 0.1	0.019	4.1	12	16.1	< 0.2	< 1	4.5
EPA 13	N	10/15/1997	6,867.50	6.40	7.21	6670	497	830	144	11.1	89.5	4620	49.6	0.6	< 0.1	< 1	< 0.1	0.595	< 0.01	< 0.01	0.07	< 0.05	6.21	0.45	0.12	< 0.001	< 0.1	0.03	3.5	11.6	15.1	< 0.2	< 1	5.4
EPA 13	N	1/20/1998	6,867.80	6.00	7.07	6610	486	780	152	12.3	84.7	4700	43.4	0.84	< 0.1	< 1	< 0.1	0.444	< 0.01	< 0.005	0.08	< 0.05	6.84	0.39	0.13	< 0.001	< 0.1	0.027	5	8.2	13.2	< 0.2	< 1	6.1
EPA 13	N	4/14/1998	6,867.60	6.30	7.12	6630	494	795	138	10.6	83	4560	38	0.55	< 0.1	< 1	< 0.1	0.563	< 0.01	< 0.005	0.05	< 0.05	5.6	0.34	0.11	< 0.001	< 0.1	0.0285	4.4	4.8	9.2	< 0.2	< 1	6.3
EPA 13	N	7/14/1998	6,867.40	6.00	6.89	6700	473	777	149	11.8	76.8	4100	35.6	0.59	0.11	< 1	< 0.1	0.45	< 0.01	< 0.005	0.05	< 0.05	6.04	0.29	0.1	< 0.001	< 0.1	0.0311	4.4	5.3	9.7	< 0.2	< 1	3.9
EPA 13	N	10/13/1998	6,868.50	5.93	7.72	6440	472	795	151	12	90.2	4520	36.1	0.65	< 0.1	< 1	< 0.1	0.613	< 0.01	< 0.005	0.05	< 0.05	5.64	0.32	0.12	< 0.001	< 0.1	0.0244	4.2	4.7	8.9	< 0.2	< 1	6.6
EPA 13	N	1/12/1999	6,868.20	6.20	6.99	6510	410	769	137	11.7	92	4450	36.8	0.6	< 0.1	< 1	< 0.1	0.514	< 0.01	0.006	0.05	< 0.05	5.6	0.26	0.08	< 0.001	< 0.1	0.0267	5.3	6.4	11.7	< 0.2	< 1	4.3
EPA 13	N	4/13/1999	6,868.10	6.10	6.93	6520	456	776	136	11.1	86	4200	46	0.69	< 0.1	< 1	< 0.1	0.717	< 0.01	< 0.005	0.06	< 0.05	5.96	0.33	0.1	< 0.001	< 0.1	0.0284	5.3	6.8	12.1	< 0.2	< 1	8.4
EPA 13	N	7/20/1999	6,868.02	6.20	6.94	6510	476	791	134	12.8	77	4260	42	0.53	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	4.6	0.26	0.1	< 0.001	< 0.1	0.0242	4.3	6.8	11.1	< 0.2	< 1	8.6
EPA 13	N	10/12/1999	6,867.90	6.10	7.16	6520	430	726	133	11.4	100	3890	40.7	0.53	< 0.1	< 1	< 0.1	0.443	< 0.01	< 0.005	0.04	< 0.05	5.63	0.3	< 0.05	< 0.001	< 0.1	0.0237	4.5	6.9	11.4	< 0.2	< 1	5.1
EPA 13	N	1/11/2000	6,868.40	6.10	7.17	6340	455	787	138	12	92	4160	37.5	0.6	< 0.1	< 1	< 0.1	0.347	< 0.01	< 0.005	0.06	< 0.05	5.89	0.32	0.16	< 0.001	< 0.1	0.0207	4.7	8.5	13.2	1.7	< 1	6.3
EPA 13	N	4/9/2001	6,867.90	7.19	6.43	6110	522	835	138	11.6	79	4660	36.5	0.62	< 0.1	< 1	0.1	0.601	< 0.01	< 0.005	0.06	< 0.05	6.33	0.3	0.15	< 0.001	< 0.1	0.023	4.6	5.1	9.7	< 0.2	< 1	6.9
EPA 13	N	7/16/2001	6,867.60	5.73	6.77	6450	421	733	139	13.3	81	3950	49.9	0.67	< 0.1	< 1	< 0.1	0.386	< 0.01	< 0.005	0.08	< 0.05	8.41	0.4	0.21	< 0.001	< 0.1	0.025	4.5	5.6	10.1	< 0.2	< 1	5.9
EPA 13	N	10/8/2001	6,867.80	5.96	6.60	6390	410	710	116	11	86	3600	48.5	0.53	< 0.1	< 1	< 0.1	0.32	< 0.01	< 0.005	0.04	< 0.05	4.72	0.19	0.08	< 0.001	< 0.1	0.0159	4.3	4.7	9	< 0.2	< 1	5.8
EPA 13	N	1/15/2002	6,867.90	5.42	6.50	6250	502	804	129	12.7	91.5	4060	43.7	0.49	< 0.1	< 1	< 0.1	0.383	< 0.01	< 0.005	0.06	< 0.05	6.42	0.3	0.16	< 0.001	< 0.1	0.0163	4.1	10.1	14.2	< 0.2	< 1	5.5
EPA 13	N	4/8/2002	6,867.67	5.75	6.47	6300	442	728	132	11.5	88.4	3980	43.9	0.54	< 0.1	< 1	< 0.1	0.322	< 0.01	< 0.005	0.07	< 0.05	7.14	0.4	0.17	< 0.001	< 0.1	0.018	3.9	8.7	12.6	< 0.2	< 1	6
EPA 13	N	7/15/2002	6,867.63	5.23	6.59	6450	519	840	126	10.9	85.4	4660	30.3	0.86	< 0.1	< 1	< 0.1	0.313	< 0.01	< 0.005	0.06	< 0.05	5.72	0.3	0.12	< 0.001	< 0.1	0.0179	4.7	6.6	11.3	< 0.2	< 1	4.9
EPA 13	N	10/14/2002	6,867.52	5.52	6.70	5770	502	832	142	12.3	86.6	4650	42.3	0.8	< 0.1	< 1	< 0.1	0.29	< 0.01	< 0.005	0.06	< 0.05	6.56	0.3	0.15	< 0.001	< 0.1	0.0173	4.2	4.8	9	< 0.2	< 1	5.7
EPA 13	N	1/13/2003	6,867.41	6.72	6.66	6190	626	973	121	10.5	78.7	5220	26.7	0.86	< 0.1	< 1	< 0.1	0.345	< 0.01	< 0.005	0.06	< 0.05	6.07	0.3	0.14	< 0.001	< 0.1	0.0167	5.8	3.9	9.7	2.2	< 1	5.8
EPA 13	N	4/15/2003	6,867.62	5.87	6.62	6360	449	784	142	14.2	84.2	4210	39.9	1.03	< 0.1	< 1	< 0.1	0.31	< 0.01	< 0.005	0.05	< 0.05	6.6	0.3	0.13	< 0.001	< 0.1	0.0161	5.7	13.6	19.3	0.5	< 1	8.2
EPA 13	N	7/14/2003	6,867.52	5.79	6.70	6430	443	725	136	12.4	78.1	3850	38.8	0.85	< 0.1	< 1	< 0.1	0.454	< 0.01	< 0.005	0.06	< 0.05	6.26	0.3	0.12	< 0.001	< 0.1	0.0127	5	< 1	5	< 0.2	< 1	4.3
EPA 13	N	10/14/2003	6,867.48	5.90	6.87	6270	480	808	140	11.6	83	4440	40.2	0.78	< 0.1	< 1	< 0.1	0.3	< 0.01	< 0.005	0.06	< 0.05	6.06	0.3	0.14	< 0.001	< 0.1	0.0157	4.5	2.3	6.8	< 0.2	< 1	7.8
EPA 13	N	1/14/2004	6,867.57	5.95	6.68	6280	493	819	132	12.6	88.1	4360	38.8	0.92	< 0.10	< 1.0	< 0.1	0.347 D	< 0.01	< 0.005	0.06	< 0.05	6.42	0.2	0.12	< 0.001	< 0.1	0.0157 D	4.5	5.1	9.6	< 0.2	< 1.0	8
EPA 13	N	4/13/2004	6,867.54	5.85	6.04	6260	452	746	137	12.6	89	4240	44.2	0.94	< 0.1	< 1	< 0.1	0.289 D	< 0.01	< 0.005	0.05	< 0.05	6.38	0.2	0.14	< 0.001	< 0.1	0.0143 D	4.2	3.3	7.5	< 0.2	< 1	6.2
EPA 13	N	7/19/2004	6,867.45	5.98	6.10	5330 H	487 D	763 D	143	11.7	77	4130 D	40	0.79	< 0.10	< 1.0	< 0.1	0.220 D	< 0.01	< 0.005	0.05	< 0.05	6.12	0.1	0.13	< 0.001	< 0.1	0.0134 D	5	3.9	8.9	< 0.2	< 1.0	7
EPA 13	N	10/12/2004	6,867.36	6.04	6.43	6410	452 D	768 D	139	11.9	83	4070 D	42	0.66	< 0.10	< 1.0	< 0.1	0.274 D	< 0.01	< 0.005	0.05	< 0.05	6.13	0.2	0.13	< 0.001	< 0.1	0.0119	4.6	5.4	10	< 0.2	< 1.0	7.1
EPA 13	N	1/11/2005	6,867.57	5.97	6.37	6350	464 D	744 D	132	11.3	84	3970 D	39	0.69	< 0.1	< 1.0	< 0.1	0.68 D	< 0.01	< 0.005	0.05	< 0.05	5.78	0.1	0.14	< 0.001	< 0.1	0.0135	4	7	11	< 0.2	< 1.0	7.3
EPA 13	N	4/12/2005	6,867.29	6.07	6.37	6050	492	786	149	11.8	76	4450	42	0.7	< 0.1	< 1.0	< 0.1	0.24	< 0.01	< 0.005	0.05	< 0.05	6.5	0.2	0.14	< 0.001	< 0.1	0.0135	5.7	2.9	8.6	< 0.2	< 1.0	5.3
EPA 13	N	7/19/2005	6,867.32	5.77	6.29	6500	463 D	733 D	146	11.4	77	4050 D	40	0.78	< 0.1	< 1.0	< 0.1	0.21 D	< 0.01	< 0.005	0.05	< 0.05	6.09	0.1	0.15	< 0.001	< 0.1	0.0135	4.5	3.6	8.1	< 0.2	< 1.0	6.6
EPA 13	N	10/11/2005	6,867.25	6.06	6.56	6270	475 D	788 D	140	11.9	82	4360 D	42	0.79	< 0.1	< 1.0	< 0.1	0.03	< 0.01	< 0.005	0.06	< 0.05	6.44	0.1	0.14	< 0.001	< 0.1	0.0129	6	3.8	9.8	< 0.2	< 1.0	7.7
EPA 13	N	1/16/2006	6,867.28	6.43	7.08	6190	446 D	747 D	130	11.6	82	4000 D	39	0.75	< 0.1	< 1.0	< 0.1	0.22 D	< 0.01	< 0.005	0.06	< 0.05	6.33	0.2	0.14	< 0.001	< 0.1	0.013	5.6	7.4	13	< 0.2	< 1.0	3.6
EPA 13	N	4/11/2006	6,867.08	6.01	6.61	6270	470 D	773 D	141	11.7	85	4220 D	40	0.61	< 0.1	< 1.0	< 0.1	0.27 D	< 0.01	< 0.005	0.06	< 0.05	6.3	0.2	0.14	< 0.001	< 0.1	0.0142	4.6	8.4	13	< 0.2	< 1.0	5.3
EPA 13	N	7/25/2006	6,867.12	5.90	6.31	6320	481 D	772 D	138	11.6	80	4240 D	38	0.74	< 0.1	< 1.0	< 0.1	0.30 D	< 0.01	< 0.005	0.06	< 0.05	7.03	0.2	0.14	< 0.001	< 0.1	0.0137	4.5	5.6	10.1	< 0.2	< 1.0	5.3
EPA 13	N	10/10/2006	6,866.95	6.01	6.42	5910	483 D	784 D	132	11.8	64	4210 D	36	0.7	< 0.1	< 0.5	< 0.1	0.42 D	< 0.01	< 0.005	0.06	< 0.05	6.59	0.2	0.15	< 0.001	< 0.1	0.0132	4.9	3.8	8.7	< 0.2	< 1	5.7
EPA 13	N	1/16/2007	6,866.72	6.18	6.86	6280	395 D	651 D	118	10.2	76	3510 D	34	0.34	<0.1	<0.5	<0.1	0.53 D	<0.01	<0.005	0.05	<0.05	5.32	0.2	0.11	<0.001	<0.1	0.0141	5.3	5.8	11.1	<0.2	<1	7.2
EPA 13	N	4/17/2007	6,866.70	6.00	6.37	6370	469 D	798 D	126	11.7	81	4430 D	41	0.41	<0.1	<0.5	<0.1	0.84 D	<0.01	<0.005	0.06	<0.05	6.6	0.2	0.14	<0.001	<0.1	0.0154	4.2	7.1	11.3	<0.2	<1	5.9
EPA 13	N	7/17/2007	6,866.62	5.87	6.18	6280	481 D	802 D	138	11.6	85	4400 D	49	0.52	<0.1	<0.5	<0.1	0.64 D	<0.01	<0.005	0.06	<0.05	5.95	0.2	0.15	<0.001	<0.1	0.0141	4.5	8.1	12.6	<0.2	<1	5.5
EPA 13	N	10/9/2007	6,866.42	6.12	6.58	6440	476 D	781 D	136	12.3	79	4280 D	41	0.43	<0.1	<0.5	<0.1	0.27 D	<0.01	<0.005	0.07	<0.05	8.13	0.2	0.16	<0.001	<0.1	0.0139	3.4	8.2	11.6	<0.2	<1	5.3
EPA 13	N	1/22/2008	6,866.50	6.11	6.09	6220	458 D	774 D	139	13.8	84	4140 D	49	0.38	< 0.1	< 0.5	< 0.1	0.24 D	< 0.01	< 0.005	0.06	< 0.05	6.14	0.2	0.15	< 0.001	< 0.1	0.014	6.9	9.7	16.6	< 0.2	4.3	6.8
EPA 13	N	4/14/2008	6,866.37	5.77	6.3	6090	506	843	138 D	11.9	74	4740 D	37	0.28	< 0.1	< 0.50	< 0.1	0.03	< 0.01	< 0.005	0.06	< 0.05	6.68	0.2	0.14	< 0.001	0.2	0.0133	4.2	10.4	14.6	0.2	<18 U	5.7
EPA 13	N	7/14/2008	6,866.37	5.98	6.46	6250	458	748	134 D	12	77	4340 D	40	0.24	< 0.1	< 0.5	< 0.1	0.05	< 0.01	< 0.005	0.06	< 0.05	6.73	0.2	0.15	< 0.001	< 0.1	0.014	4.1	6.4	10.5	0.4	5 U	5.3
EPA 13	N	10/13/2008	6,866.23	5.92	6.2 H	6540	484	794	134 D	12	60	4690 D	48	< 0.4	< 0.1	< 0.5	< 0.1	0.058	< 0.01	< 0.005	0.06	< 0.05	6.65	0.2	0.15	< 0.001	< 0.1	0.0137	4	5.2	9.2	0.3	1.5 U	9
EPA 13	N	1/20/2009	6,864.81	5.92	6.62	6560	472	800	157	13	73	4580 D	35	0.16	<0.1	<0.5	<0.1	0.049	<0.01	<0.005	0.05	<0.05	6.2	0.2	0.15	<0.001	<0.1	0.0114	4.3	8.1	12.4	0.3	<1 U	5.1
EPA 13	N	4/14/2009	6,865.01	5.94	6.13	6490	455 D	778 D	145 D	11	65	4620 D	39	0.31	<0.1	<0.50	<0.1	0.045	<0.01	<0.005	0.06	<0.05	6.52	0.2	0.16	<0.001	<0.1	0.0116	3.9	6.7	10.6	<0.07 U	<1 U	8
EPA 13	N	7/14/2009	6,864.76	5.85	6.5	7010	478	784	135	13	52	4760 D	41	0.25	<0.1	<0.50	0.2	0.02	<0.01	<0.005	0.06	<0.05	6.88	0.3	0.16	<0.001	<0.1	0.0183	4.1	7.3	11.4	<0.06 U	3.3	8
EPA 13	N	10/13/2009	6,864.96	5.83	6.75	6550 H	495 D	788	141 D	13	62	4620 D	49	0.34	<0.1	<0.50	<0.1	0.003	<0.01	<0.005	0.07	<0.05	6.98	0.2	0.17	<0.001	<0.1	0.0145	4.9	8.2	13.1	<0.006 U	0.3 U	7.4
EPA 13	N	1/12/2010	6,864.51	5.84	6.01	6360 D	516 D	843	151 D	13	66	4740 D	40	0.29	<0.10	<0.50	<0.1	0.002 H	<0.01	<0.005	0.06	<0.05	6.22	0.2	0.16	<0.001	<0.1	0.0123	4.2	11	15.2	<0.0002 U	2.1 U	6.1
EPA 13	N	4/13/2010	6,864.66	6.02	6.17	6740 D	496	844	151	13	66	4910 D	43	0.41	<0.1	<0.50	<0.1	0.036	<0.01	<0.005	0.07	<0.05	7.05	0.2	0.2	<0.001	<0.1	0.0151	5.2	7.3	12.5	0.09 U	<0.03 U	7.3
EPA 13	N	7/20/2010	6,864.46	5.82	6.46	6930 D	490	849	145	12	58	4740 D	39 D	0.66	<0.1	<0.50	<0.1	0.045	<0.01	<0.005	0.07	<0.05	7	0.3	0.17	<0.001	<0.1	0.0219	6.6	7.9	14.5	<0.03 U	1.7 U	5.8
EPA 13	N	10/11/2010	6,864.76	5.89	7.19	6540 D	483	812	160	13	65	4680 D	36 D	0.64	<0.1	<0.50	<0.1	0.023 D	<0.01	<0.005	0.07	<0.05	6.78	0.2	0.18	<0.001	<0.1	0.014	6.2	4.8	11	0.03 U	<0.04 U	6.8
EPA 13	N	1/11/2011	6,864.23	5.99	7.33	6630 D	482	826	147	13	63	4790 D	43 D	0.22	<0.1	<0.50	<0.1	0.05 D	<0.01	<0.005	0.08	<0.05	7	0.2	0.19	<0.001	<0.1	0.0198	6	7.8	13.8	0.05 U	1.3 U	5
EPA 13	N	4/11/2011	6,864.16	5.92	6.43	6920 D	501	841	164	14	53	4820 D	42 D	0.28	<0.1	<0.50	<0.1	0.016	<0.01	<0.005	0.08	<0.05	6.97	0.2	0.19	<0.001	<0.1	0.0155	5.1	7.8	12.9	<0.02 U	1.6	7.2
EPA 13	N	7/19/2011	6,864.16	5.94	7.38	6710 D	476	807	161	13	50	4950 D	42 D	0.3 D	<0.5	<0.50	<0.1	<0.01	<0.01	<0.005	0.07	<0.05	5.9	0.2	0.22	<0.001	<0.1	0.0111	5.9	7.8	13.7	0.03 U	<0.6 U	4.8
EPA 13	N	10/10/2011	6,863.30	5.9	7.08	6700 D	486	839	162	14	44	4940 D	43 D	0.3 D	<0.5	<0.50	<0.1	0.029	<0.01	<0.005	0.07	<0.05	7	0.1	0.2	<0.001	<0.1	0.01	5.3	7.1	12.4	0.05 U	0.4 U	5.1

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
EPA Standard			NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
EPA 13	N	1/10/2012	6,864.11	6.12	6.12 H	6780 D	500	790	151	13	51	4850 D	41 D	0.26	0.2	<0.50	<0.1	0.019	<0.01	<0.005	0.09	<0.05	7.18	0.2	0.22	<0.001	<0.1	0.0118	5.1	7.6	20.3	0.02 U	0.5 U	6.6
EPA 13	N	4/9/2012	6,862.94	5.95	6.12 H	7110 D	466	862	153	13	58	4770 D	42 D	0.26	<0.1	<0.50	<0.1	<0.01	<0.01	<0.005	0.08	<0.05	7.46	0.2	0.21	<0.001	<0.1	0.0174	6.9	8.7	24.3	0.05 U	1.9	6.7
EPA 13	N	7/16/2012	6,863.91	5.86	6.35 H	7110	511	911	164	13	44	4890 D	45 D	0.25	<0.1	<0.50	<0.1	0.007	0.001	<0.005	0.07	<0.001	6.89	0.2	0.21	<0.001	<0.1	0.0172	5.6	6.3	18.2	0.002 U	1.1 U	8.3
EPA 13	N	10/15/2012	6,863.86	6.05	6.35 H	7160	532	896	171 D	14	57	5030 D	43 D	0.26	0.1	<0.50	<0.1	0.015	0.002	<0.005	0.09	<0.001	7.68	0.2	0.23	0.001	<0.1	0.0115	4.1	9.7	13.8	0.1 U	-0.2 U	5.2
EPA 13	N	1/14/2013	6,863.93	5.89	6.17 H	6920	539	938	170 D	15	64	4880 D	46 D	0.26	<0.1	<0.50	<0.1	0.007	0.002	<0.005	0.09	<0.001	7.37	0.2	0.23	<0.001	<0.1	0.012	5.9	8.3	14.2	0.2 U	0.5 U	5.5
EPA 13	N	4/8/2013	6,864.16	5.97	6.08 H	6890	525	968	187	15	62	5030 D	41 D	0.25	<0.1	<0.50	<0.1	0.023	0.002	<0.005	0.09	<0.001	7.38	0.2	0.24	<0.001	<0.1	0.0126	6.7	11	17.7	0.2	-0.6 U	9.6
EPA 13	N	7/15/2013	6,863.47	5.84	6.16 H	7150	500	921	169	14	67	4850 D	41 D	0.22	<0.1	<0.50	<0.1	<0.01	0.004	<0.005	0.09	<0.001	7.64	0.2	0.21	<0.001	<0.1	0.0152	4.8	12	16.8	0.2 U	0.7 U	4.5
EPA 13	N	10/8/2013	6,863.43	6.08	6.30 H	6760	497	936	172	14	60	4910 D	41 D	0.2	<0.1	<0.50	<0.1	0.012	0.002	<0.005	0.09	<0.001	6.83	0.2	0.23	<0.001	<0.1	0.0102	8	7.7	15.7	0.06 U	0.3 U	5.3
EPA 13	N	1/13/2014	6,863.19	6.12	6.21	7020	508	926	170	14	56	4920	45	0.19	<0.1	<0.50	<0.1	0.001	<0.001	<0.005	0.07	<0.001	6.67	0.2	0.22	<0.001	<0.1	0.0098	9.4	8.1	17.5	0.2 U	0.8 U	7.5
EPA 13	N	4/7/2014	6,863.06	6.12	6.11 H	6970	502	936	174 D	15	62	4900 D	45 D	<0.05	<0.1	<0.50	<0.1	0.005	0.002	<0.005	0.09	<0.001	6.49	0.2	0.25	<0.001	<0.1	0.0117	5.7	9.5	15.2	0.3	0.8 U	5.1
EPA 13	N	7/14/2014	6,862.98	5.97	6.30 H	6890	473	914	172 D	14	69	5010 D	43 D	0.14	<0.1	<0.50	<0.1	0.006	0.002	<0.005	0.1	<0.001	6.9	0.2	0.25	<0.001	<0.1	0.0167	4.4	5.9	10.3	0.4	0.1 U	5.9
EPA 13	N	10/13/2014	6,862.98	5.99	6.28 H	7540	458	920	168	14	54	5030 D	45 D	<0.05	0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.09	<0.001	6.63	0.2	0.25	<0.001	<0.1	0.0091	6.6	18	24.6	0.1 U	1.2 U	8
EPA 13	N	1/12/2015	6,862.94	6.13	6.25 H	7220	454	925	168	14	51	5070 D	47 D	<0.05	0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.11	<0.001	6.88	0.2	0.29	<0.001	<0.1	0.0084	6.4	7.7	14.1	0.2 U	0.4 U	17.7
EPA 13	N	4/13/2015	6,862.77	5.92	6.26 H	7330	454	941	173	14	60	5180 D	46 D	<0.05	<0.1	<0.50	0.2	0.029	0.002	<0.005	0.11	<0.001	6.62	0.2	0.26	<0.001	<0.1	0.01	5.4	7.8	13.2	0.1 U	0.5 U	27.4
EPA 13	N	7/14/2015	6,862.77	6.02	6.06 H	7290	512	918	152	25	63	5160 D	45 D	<0.05	<0.1	<0.50	<0.1	0.002	0.002	<0.005	0.11	<0.001	6.76	0.2	0.26	<0.001	<0.1	0.0113	5.7	9.1	14.8	0.2 U	0.2 U	22.1
EPA 13	N	10/13/2015	6,862.73	5.81	6.46 H	7430	470	967	171	13	45	5070 D	46 D	0.18	<0.1	<0.50	<0.1	<0.001	0.003	<0.005	0.1	<0.001	6.61	0.2	0.28	<0.001	<0.1	0.0129	6	6.8	12.8	0.4	1.4	9.4
EPA 13	N	1/11/2016	6,862.63	6.12	6.08 H	7080	471	862	163	14	63	5090 D	48 D	<0.05	<0.1	<0.50	0.2	0.014 D	<0.001	<0.005	0.1	<0.001	6.14	0.2	0.29	<0.001	<0.1	0.0082	5.9	7.2	13.1	0.6	0.1 U	27
EPA 13	N	4/11/2016	6,862.68	5.97	6.30 H	7530	508	1010	175	14	49	5010 D	42 D	0.09	<0.1	<0.50	0.1	0.001	<0.001	<0.005	0.09 D	<0.001	6.65	0.2	0.24	<0.001	<0.1	0.0075	5.8	7.4	13.2	0.2 U	0.8 U	28.8
EPA 13	N	7/18/2016	6,862.47	5.90	6.19 H	7450 DH	454	976	178	14	50	5420 D	43 D	0.06	<0.1	0.7	<0.1	0.006 D	<0.001	<0.005	0.07 D	<0.001	6.3	0.2	0.23	<0.001	<0.1	0.0074	4.8	7.2	12	0.4	0.4 U	14.7
EPA 13	N	10/10/2016	6,862.42	5.98	6.22 H	7220 H	438	981	177	14	58	5380 D	44 D	<0.05	0.1	<0.50	<0.1	0.001	<0.001	<0.005	0.11	<0.001	6.9	0.2	0.27	<0.001	<0.1	0.0102	5.2	7.7	12.9	0.2	0.6 U	11.4
EPA 13	N	1/16/2017	6,862.48	6.12	6.28 H	7200 D	452	968	173	14	50	5240 D	45 D	0.09	0.1	<0.50	<0.1	0.004	<0.001	<0.005	0.1	<0.001	5.91	0.2	0.3	<0.001	<0.1	0.007	5.5	6.7	12.2	0.05 U	0.9 U	10.1
EPA 13	N	4/10/2017	6,862.19	5.80	6.24 H	7100 D	434	910	176 D	14	50	5380 D	45 D	0.14	<0.01	<0.50	<0.1	0.005	0.003	<0.005	0.12	<0.001	6.94	0.2	0.32	<0.001	<0.1	0.012	6.3	5.7	12	0.3	0.4 U	12
EPA 13	N	7/17/2017	6,862.25	5.92	6.27 H	5700 D	437	943	174 D	13	41	5170 D	45 D	0.1	0.05	<0.50	<0.1	0.022	0.003	<0.005	0.13	<0.001	7.46	0.3	0.31	<0.001	<0.1	0.016	4	4.3	8.3	0.1 U	1.4	6.9
EPA 13	N	10/9/2017	6,862.16	5.81	6.09 H	7240 D	432	950	172 D	14	66	5310 D	42 D	0.07	0.07	<0.50	<0.1	0.011	<0.001	<0.005	0.13	<0.001	7.24	0.3	0.35	<0.001	<0.1	0.009	5	8.4	13.4	0.07 U	-4 U	6.8
EPA 13	N	1/15/2018	6,862.09	6.03	6.25 H	7650 D	482	1000	181 D	15	50	5420 D	40 D	<0.05	0.07	<0.50	<0.04	0.014	0.002	<0.001	0.127	<0.001	7.06 D	0.303	0.293	<0.001	<0.01	0.0124	4	10.6	14.6	0.4	0.2 U	7.3
EPA 13	N	4/9/2018	6,861.81	5.98	6.20 H	7700 D	490 D	974	189 D	14	50	5460 D	43 D	<0.05	0.06	<0.50	<0.03	0.012	0.002	<0.001	0.14	<0.001	7.56	0.238	0.337	<0.001	<0.01	0.0094	5.9	6.6	12.5	0.2 U	0.3 U	7.5
EPA 13	N	7/16/2018	6,861.82	5.95	6.23 H	7920 D	399	943	199 D	12	47	5330 D	44 D	0.06	0.05	<0.50	0.05	0.008	0.003	<0.001	0.12	<0.001	6.97	0.298	0.329	<0.001	<0.01	0.0138	5.8	8.2	14	0.2 U	0.4 U	8
EPA 13	N	10/8/2018	6,862.00	6.01	6.13 H	7750 D	510	1000	174 D	14	65	5350 D	44 D	<0.05	0.1	<0.50	0.04	0.014	0.003	<0.001	0.131	<0.001	6.99	0.283	0.322	<0.001	<0.01	0.0103	4.9	9.7	14.6	0.05 U	0.8 U	6.3
EPA 13	N	1/14/2019	6,861.22	6.06	6.18 H	7420 D	446	946	177 D	15	54	5400 D	44 D	0.05	0.07	<0.50	0.05	no data	0.002	<0.001	0.116	<0.001	6.38	0.345	0.321	no data	<0.01	0.0119	5.9	5.5	11.4	0.2 U	1.3	7.2
EPA 13	N	4/15/2019	6,861.64	5.97	6.09 H	7640 D	459	931	173	14	53	5450 D	42D	0.06	0.08	<0.50	0.09	0.828	0.002	<0.001	0.126	<0.001	7.3	0.313	0.3 D	<0.001	<0.01	0.0132	4.6	9.3	13.9	0.07 U	-0.05 U	11.3
EPA 13	N	7/23/2019	6,861.40	5.90	6.02 H	7850 DH	442	1030	180	15	61	5380 D	41 D	0.09	0.09	<0.50	<0.03	0.417	0.002	<0.001	0.124	<0.001	7.13 D	0.223	0.328	<0.001	<0.01	0.009	5.4	5.8	11.2	0.3	0.7 U	7.8
EPA 13	N	10/3/2019	6,861.36	5.90	6.07 H	7550 DH	436	957	183	16	60	5420 D	41 D	0.07	0.08	<0.50	<0.03	0.072	0.001	<0.001	0.122	<0.001	6.81 D	0.143	0.158	<0.001	<0.01	0.0047	5.5	7.9	13.4	0.02 U	0.6 U	8.2
EPA 14	N	7/28/1989	6,895.90	6.00	5.82	3189	471	245	149	4.5	146	2111	26.8	0.08	16.9	< 1	0.79	< 0.001	< 0.05	< 0.01	0.04	< 0.05	0.63	< 0.1	0.05	< 0.001	< 0.1	0.0166	3	3.4	6.4	< 0.2	< 1	3.2
EPA 14	N	10/8/1989	6,891.10	5.40	6.00	3672	407	281	163	6.1	99.3	2370	31.9	0.09	18.8	< 1	1.1	< 0.001	< 0.05	< 0.01	0.04	< 0.05	0.7	0.02	0.07	< 0.001	< 0.1	0.014	2.5	3.2	5.7	< 0.2	7.1	2.8
EPA 14	N	1/17/1990	6,889.50	5.60	6.11	3446	424	275	155	4.6	159	2099	29.4	0.08	16.8	< 1	0.67	< 0.001	< 0.05	< 0.01	0.01	< 0.05	0.89	< 0.1	< 0.05	< 0.001	< 0.1	0.019	2.7	< 1	2.7	2.9	2.2	5.1
EPA 14	N	4/18/1990	6,888.20	5.70	6.15	3529	430	240	140	3.4	176	2088	28.7	0.15	19	< 1	0.52	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.56	< 0.1	0.07	< 0.001	< 0.1	0.022	1.9	3	4.9	< 0.2	< 1	2.4
EPA 14	N	7/12/1990	6,886.60	5.80	6.12	3559	486	281	146	5.2	173	2067	30.1	< 0.05	21.2	< 1	0.68	< 0.001	< 0.05	< 0.01	0.02	< 0.05	0.61	0.13	< 0.05	< 0.001	< 0.1	0.0223	1.4	1.9	3.3	< 0.2	4.6	2
EPA 14	N	10/10/1990	6,886.80	5.70	6.43	3541	380	251	153	5.9	189	2079	33.3	0.07	20.8	< 1	0.5	< 0.001	< 0.05	< 0.01	0.05	< 0.05	0.71	< 0.1	0.08	< 0.001	< 0.1	0.0323	2.8	3.7	6.5	< 0.2	< 1	4
EPA 14	N	1/8/1991	6,886.50	5.70	6.35	3499	462	266	152	22	185	2222	31.8	< 0.05	24.6	< 1	0.54	< 0.001	< 0.01	< 0.01	0.03	< 0.05	0.71	< 0.1	0.08	0.001	< 0.1	0.0312	2.4	< 1	2.4	< 0.2	< 1	2
EPA 14	N	4/16/1991	6,886.90	5.60	6.80	3738	436	321	177	4.3	143	2380	34.8	0.07	27.5	< 1	0.86	< 0.001	< 0.01	< 0.01	0.04	< 0.05	0.7	< 0.1	0.06	< 0.001	< 0.1	0.018	1.3	< 1	1.3	< 0.2	< 1	1
EPA 14	N	7/3/1991	6,883.90	5.30	6.25	3774	421	313	158	4	102	2558	35.7	0.08	28.9	< 1	1.06	< 0.001	< 0.01	< 0.01	0.05	< 0.05	0.75	< 0.1	0.07	< 0.001	< 0.1	0.0108	2.3	3.5	5.8	< 0.2	< 1	2
EPA 14	N	10/22/1991	6,875.10	5.70	6.35	3296	424	229	148	4.1	234	2117	37.6	0.09	9.2	< 1	0.31	< 0.001	< 0.01	< 0.01	0.03	< 0.05	0.73	< 0.1	< 0.05	< 0.001	< 0.1	0.0332	1.6	< 1	1.6	< 0.2	1.3	2
EPA 14	N	1/23/1992	6,880.20	5.50	6.16	4045	414	296	163	4.5	115	2463	39.1	< 0.05	14	< 1	1	< 0.001	< 0.01	< 0.01	0.03	< 0.05	0.81	< 0.1	< 0.05	0.001	< 0.1	0.01	2.5	1.2	3.7	< 0.2	3.3	3
EPA 14	N	4/2/1992	6,880.20	5.40	7.09	4058	464	338	213	6	126	2607	33.6	0.18	27.4	< 1	1	< 0.001	< 0.01	< 0.01	0.04	< 0.05	0.91	< 0.1	0.06	0.015	< 0.1	0.007	1.6	< 1	1.6	< 0.2	< 1	1.9
EPA 14	N	7/16/1992	6,870.30	6.20	6.28	3186	393	333	183	6.3	316	2306	30.5	0.07	23.3	< 1	0.45	< 0.001	< 0.01	< 0.01	0.02	< 0.05	0.71	< 0.1	< 0.05	0.001	< 0.1	0.028	3.6	2.9	6.5	< 0.2	< 1	3.8
EPA 14	N	10/15/1992	6,870.60	6.10	6.38	3753	491	276	179	6	159	2332	32.8	< 0.05	24.2	< 1	0.73	< 0.001	< 0.01	< 0.01	0.03	< 0.05	0.87	< 0.1	0.07	< 0.001	< 0.1	0.009	2.8	3.5	6.3	< 0.2	1.7	2.6
EPA 14	N	1/14/1993	6,875.30	5.90	6.47	3728	485	256	156	4.4	142	2456	35.5	0.12	26.5	< 1	0.59	0.002	< 0.01	< 0.01	0.04	< 0.05	0.42	< 0.1	0.11	< 0.001	< 0.1	0.009	3.3	3	6.3	< 0.2	< 1	3.6
EPA 14	N	4/15/1993	6,872.20	5.90	6.54	3401	420	217	164	3.4	180	2096	32.2	0.17	27.1	< 1	0.4	< 0.001	< 0.001	< 0.01	0.03	< 0.05	0.82	< 0.1	< 0.05	< 0.001	< 0.1	0.017	1.6	4.6	6.2	< 0.2	< 1	2.1
EPA 14	N	7/20/1993	6,866.90	6.50	7.46	3350	444	285	122	3.4	370	2197	28.9	0.14	14.9	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	0.55	0.22	< 0.05	< 0.001	< 0.1	0.054	2.6	3.5	6.1	< 0.2	< 1	2.9
EPA 14	N	10/11/1993	6,865.60	6.50	6.49	3272	503	185	137	3.5	220	1936	29.6	0.05	25.7	< 1	0.4	< 0.001	< 0.01	< 0.01	0.02	< 0.05	0.74	< 0.1	< 0.05	0.001	< 0.1	0.023	2.9	2.2	5.1	< 0.2	< 1	6.2
EPA 14	N	1/11/1994	6,871.00	5.70	6.49	3409	446	270	158	3.5	96.8	2285	37.9	< 0.05	31.9	< 1	0.88	< 0.001	< 0.01	< 0.01	0.03	< 0.05	1.18	< 0.1	< 0.05	< 0.001	< 0.1	0.014	2.7	5.8	8.5	< 0.2	< 1	12.4
EPA 14	N	4/19/1994	6,868.40	6.20	6.54	2743	450	141	144	5	250	1654	27.3	0.18	16.9	< 1	0.36	< 0.001	< 0.01	< 0.01	0.06	< 0.05	0.92	0.16	< 0.05	< 0.001	< 0.1	0.037	2.9	3	5.9	< 0.2	< 1	7.6
EPA 14	N	7/26/1994	6,866.10	6.30	7.04	2710	505	151	115	3.6	284	1732	25.6	0.2	9.94	< 1	0.31	< 0.001	< 0.01	< 0.01	0.02	< 0.05	1.1	0.21	< 0.05	0.011	< 0.1	0.036	3.1	< 1	3.1	< 0.2	< 1	7.3
EPA 14	N	10/11/1994	6,866.10	6.30	7.05	3074	500	148	146	4.6	299	1776	26.9	0.25	23.5	< 1	0.53	< 0.001	< 0.01	< 0.01	0.05	< 0.05	1.26	0.11	< 0.05	< 0.001	< 0.1	0.033	2.3	1	3.3	< 0.2	1.7	3.9
EPA 14	N	1/10/1995	6,867.80	6.00	6.60	3516	545	211	154	6.6	121	2309	35.8	0.48	33	< 1	1.25	< 0.001	< 0.01	< 0.01	0.06	< 0.05	2.34	< 0.1	< 0.05	< 0.001	< 0.1	0.008	4.1	4	8.1	< 0.2	1.1	10.3
EPA 14	N	4/10/1995	6,867.60	6.10	6.01	4051	511	284	160	5.63	104	2570	43.7	0.57	40	< 1	1.68	< 0.001	< 0.01	< 0.01	0.07	< 0.05	2.59	< 0.1	< 0.05	< 0.001	< 0.1	0.005	2.6	5.2	7.8	< 0.2	< 1	10.4
EPA 14	N	7/10/1995	6,863.40	6.20	7.62	2659	500	108	124	4.6	465	1456	26.2	0.21	18.6	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	1.05	0.19	< 0.05	< 0.001	< 0.1	0.064	2.3	2.6	4.9	< 0.2	< 1	7.9
EPA 14	N	10/9/1995	6,863.60	6.60	7.44	2864	510	135	118	4.9	439	1530	25.7	0.16	22.4	< 1	0.18	0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.33	0.16	< 0.05	0.003	< 0.1	0.064	3.7	< 1	3.7	< 0.2	< 1	8.4
EPA 14	N	1/8/1996	6,861.80	6.50	7.27	2773	525	103	120	4.7	490	1440	26	< 0.05	24.6	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	1.15	< 0.1	< 0.05	< 0.001	< 0.1	0.081	3.2	2.3	5.5	< 0.2	1.8	2.6
EPA 14	N	4/9/1996	6,861.20	6.80	7.75	2825	551	109	121	5.1	516	1468	30	0.12	23.9	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.26	0.18	< 0.05	< 0.001	< 0.1	0.083	3.4	2.5	5.9	< 0.2	< 1	3.9

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
EPA 14	N	7/17/1996	6,861.00	6.50	6.91	2907	532	116	132	5.6	498	1616	35	0.13	23.8	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	1.44	0.18	< 0.05	< 0.001	< 0.1	0.09	3.4	< 1	3.4	< 0.2	< 1	3.5
EPA 14	N	10/8/1996	6,861.10	6.50	7.24	2900	610	143	137	5.9	511	1589	33	0.11	23.9	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	1.52	0.18	< 0.05	< 0.001	< 0.1	0.075	2.5	8	10.5	< 0.2	< 1	1.9
EPA 14	N	1/28/1997	6,861.60	6.50	7.71	3200	580	170	120	5.51	459	1927	48	0.05	26.7	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.03	< 0.05	1.87	0.13	< 0.05	0.003	< 0.1	0.054	2.8	3.4	6.2	< 0.2	< 1	4.2
EPA 14	N	4/14/1997	6,861.90	6.50	7.45	3000	641	134	124	5.6	584	1612	42.3	0.06	22.9	1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.49	0.18	< 0.05	< 0.001	< 0.1	0.09	6.7	5.4	12.1	< 0.2	< 1	3.6
EPA 14	N	7/14/1997	6,858.50	6.50	7.35	3160	632	148	116	5.7	627	1640	48.9	0.08	25.7	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.54	0.15	< 0.05	< 0.001	< 0.1	0.088	3.1	5	8.1	< 0.2	< 1	3
EPA 14	N	10/14/1997	6,859.10	6.60	7.75	3280	677	165	127	6.1	616	1750	60.5	0.13	26.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	2.05	0.2	< 0.05	< 0.001	< 0.1	0.101	2.4	5.8	8.2	< 0.2	< 1	3.5
EPA 14	N	1/19/1998	6,863.50	6.30	7.66	3720	600	234	147	7.7	442	2150	52.8	0.4	33.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.07	< 0.05	3.21	0.13	0.06	< 0.001	< 0.1	0.075	5.1	5	10.1	< 0.2	< 1	3.9
EPA 14	N	4/13/1998	6,858.00	6.70	7.36	3310	682	157	121	6	688	1630	53.3	0.11	26.4	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.01	< 0.05	1.92	0.18	< 0.05	< 0.001	< 0.1	0.121	3.8	3.4	7.2	< 0.2	< 1	6
EPA 14	N	7/13/1998	6,857.40	6.70	7.62	3560	664	164	132	7	715	1600	56.9	0.11	25.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.2	0.16	< 0.05	< 0.001	< 0.1	0.12	3.9	5.4	9.3	< 0.2	< 1	2.9
EPA 14	N	10/13/1998	6,861.20	6.66	8.17	3810	626	247	149	7.9	527	2120	54.8	0.34	29.8	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	2.86	0.12	0.08	< 0.001	< 0.1	0.0906	3.8	4.7	8.5	< 0.2	< 1	4.4
EPA 14	N	1/12/1999	6,858.10	6.70	7.72	3690	622	212	124	6.7	570	1900	56.2	0.44	28.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.58	0.11	< 0.05	< 0.001	< 0.1	0.111	5.2	5.6	10.8	< 0.2	3.6	3.6
EPA 14	N	4/13/1999	6,857.80	6.60	7.93	3690	656	191	130	7.7	647	1820	70.2	1.08	33.9	< 1	< 0.1	0.002	< 0.01	0.005	0.03	< 0.05	2.83	0.15	< 0.05	< 0.001	< 0.1	0.11	7.8	9.4	17.2	< 0.2	< 1	10.8
EPA 14	N	7/20/1999	6,857.41	6.20	7.94	3730	683	217	124	9.6	667	1900	70	2.07	31.3	< 1	< 0.1	0.004	< 0.01	< 0.005	0.03	< 0.05	2.24	0.14	< 0.05	< 0.001	< 0.1	0.114	5.1	6.8	11.9	< 0.2	< 1	6.7
EPA 14	N	10/12/1999	6,857.40	6.54	7.68	3700	669	191	122	7.9	746	1630	71.2	2.01	32.3	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.86	0.15	< 0.05	< 0.001	< 0.1	0.127	3.5	7.1	10.6	< 0.2	< 1	5.2
EPA 14	N	1/11/2000	6,857.10	6.50	7.73	3790	599	211	121	8.6	650	1820	60.9	1.85	32.4	< 1	0.17	< 0.001	< 0.01	< 0.005	0.04	< 0.05	2.96	0.18	0.08	0.001	< 0.1	0.104	5.1	7.8	12.9	< 0.2	< 1	7.6
EPA 14	N	5/2/2000	6,857.40	6.40	7.56	3800	590	200	126	8.6	627	1880	60.5	1.83	34.4	< 1	8.3	< 0.001	< 0.01	0.014	0.05	< 0.05	3.24	0.2	< 0.05	< 0.001	< 0.1	0.12	8	11.1	19.1	2	< 1	6.5
EPA 14	N	7/12/2000	6,859.30	6.94	7.11	4410	563	368	161	8.65	239	2560	53.1	0.56	23	< 1	11.6	0.002	< 0.01	< 0.005	0.18	< 0.05	4.36	< 0.1	0.15	< 0.001	< 0.1	0.053	3.8	5.9	9.7	< 0.2	< 1	5.4
EPA 14	N	10/9/2000	6,861.00	7.09	7.26	4440	543	423	163	9.5	153	3210	44.2	0.35	19.3	< 1	8.13	< 0.001	< 0.01	0.008	0.18	< 0.05	3.96	< 0.1	0.15	< 0.001	< 0.1	0.0435	3.9	6.9	10.8	< 0.2	< 1	10.3
EPA 14	N	1/15/2001	6,860.50	6.08	6.55	4550	507	379	155	9.3	113	3110	55.2	0.23	19.9	< 1	23.7	< 0.001	0.01	0.008	0.23	< 0.05	4.65	< 0.1	0.24	< 0.001	< 0.1	0.049	5.2	< 1	5.2	< 0.2	< 1	4.5
EPA 14	N	4/2/2001	6,860.70	5.90	6.89	4570	570	439	153	8.3	104	2990	52.6	0.43	18.1	< 1	13	< 0.001	0.01	0.008	0.26	< 0.05	4.68	< 0.1	0.27	< 0.001	< 0.1	0.037	4.2	6.4	10.6	< 0.2	< 1	5.1
EPA 14	N	7/10/2001	6,860.40	5.79	4.10	6810	491	476	201	7.1	< 0.1	4080	78.7	91.3	15.7	< 1	188	< 0.001	0.08	0.014	0.56	< 0.05	16.5	< 0.1	0.54	0.001	1	0.491	5	5.3	10.3	150	< 1	13.3
EPA 14	N	10/8/2001	6,860.35	6.60	6.60	4780	480	390	145	9.1	83.6	2500	62	0.4	14	< 1	16.6	< 0.001	< 0.01	0.009	0.2	< 0.05	3.99	< 0.1	0.2	< 0.001	< 0.1	0.0432	3.9	7	10.9	< 0.2	< 1	6.6
EPA 14	N	1/9/2002	6,860.20	7.36	6.70	4680	532	414	139	11	83	2970	74	0.6	13.6	< 1	36.2	< 0.001	0.02	0.011	0.23	< 0.05	4.84	< 0.1	0.27	< 0.001	< 0.1	0.0598	5	8.4	13.4	< 0.2	< 1	5.6
EPA 14	N	4/3/2002	6,860.40	5.97	7.46	4800	566	434	171	10.5	79.9	3190	61.6	0.7	13.3	< 1	18.6	< 0.001	0.01	0.01	0.25	< 0.05	5.4	< 0.1	0.25	< 0.001	< 0.1	0.0334	4.6	7.3	11.9	< 0.2	< 1	8.1
EPA 14	N	7/16/2002	6,859.80	5.92	7.04	4830	606	466	160	9.4	95.8	3390	50.6	1.96	14	< 1	19.2	< 0.001	0.01	0.008	0.2	< 0.05	4.54	< 0.1	0.22	< 0.001	< 0.1	0.0387	4.3	11.7	16	< 0.2	< 1	7.1
EPA 14	N	10/14/2002	6,859.40	6.82	7.30	4160	560	425	165	9.6	130	3080	52.2	2.85	13.9	< 1	21.6	< 0.001	0.02	0.006	0.17	< 0.05	4.78	< 0.1	0.19	< 0.001	< 0.1	0.0558	4.8	5	9.8	< 0.2	< 1	7.2
EPA 14	N	1/7/2003	6,858.66	6.91	6.88	4730	452	347	147	8.8	140	2410	41.9	3.25	14.9	< 1	26	< 0.001	0.02	0.001	0.19	< 0.05	5.4	< 0.1	0.21	< 0.001	< 0.1	0.0599	4.6	5.5	10.1	< 0.2	< 1	9.2
EPA 14	N	4/8/2003	6,858.37	5.90	6.79	4800	516	397	184	12.4	132	3020	55.1	2.65	14.1	< 1	19.4	< 0.001	0.01	0.008	0.19	< 0.05	5.26	< 0.1	0.21	< 0.001	< 0.1	0.049	4.6	7.5	12.1	< 0.2	< 1	10.1
EPA 14	N	7/8/2003	6,858.13	5.90	6.82	4840	575	401	172	10.8	113	3000	54.5	4.5	14.1	< 1	< 0.1	< 0.001	< 0.01	0.007	0.2	< 0.05	5.43	< 0.1	0.25	< 0.001	< 0.1	2.31	55.5	7.7	63.2	< 0.2	< 1	90.2
EPA 14	N	10/13/2003	6,857.56	5.94	7.07	4740	556	434	174	10.1	104	3150	52.9	3.17	15.7	< 1	54.4	< 0.001	0.07	0.015	0.22	< 0.05	5.72	< 0.1	0.24	< 0.001	< 0.1	0.275	144	8.2	152.2	< 0.2	< 1	99.5
EPA 14	N	1/12/2004	6,857.21	6.24	6.98	4760	756	437	175	10.2	95.3	1490	62.3	3.58	16.4 D	< 1.0	143	0.006	0.28	0.018	0.23	0.1	6.53	< 0.1	0.29	0.003	< 0.1	1.10 D	118	49.5	167.5	< 0.2	32	254
EPA 14	N	4/6/2004	6,856.84	6.12	6.09	12200	675	402	159	10.6	148	2340 D	61.1	5.2 D	17.6 D	< 1	287	< 0.001	0.37	0.018	0.23	0.18	6.92	< 0.1	0.29	0.001	< 0.1	1.27 D	141	64.4	205.4	< 0.2	90	78.4
EPA 14	R	4/13/2004	no data	no data	6.14	4500	660	399	172	10.9	135	2090 D	61.3	3	18.1 D	no data	245	0.046	0.42	0.01	0.19	0.23	6.03	< 0.1	0.31	0.02	< 0.1	0.893 D	82.6	13.4	96	< 0.2	40	160
EPA 14	F	4/13/2004	no data	no data	6.66	4780	556	395	128	8.1	165	2910 D	45	3.15	16.9 D	no data	0.2	< 0.001	< 0.01	0.005	0.14	< 0.05	5.8	< 0.1	0.17	< 0.001	< 0.1	0.0289 D	17.1	9.7	26.8	< 0.2	< 1	34.5
EPA 14	N	7/13/2004	6,856.29	6.00	5.70	4500	637	369	177	10.7	162	2850 D	64	6.67	21.3 D	< 1.0	595 D	< 0.001	0.44	< 0.005	0.1	0.11	5.74	< 0.1	0.13	0.001	< 0.1	0.517 D	39.9	23.8	63.7	< 0.2	< 1.0	46.9
EPA 14	N	10/5/2004	6,856.01	5.92	6.16	5170	743 D	437 D	181	15.9	188	2800 D	71	40 D	19.0 D	< 1.0	552	< 0.001	0.68	0.044 D	0.24	0.29	12.4	< 0.1	0.34	< 0.001	< 0.1	1.05 D	51.1	30.4	81.5	< 0.2	86	120
EPA 14	N	1/10/2005	6,856.11	6.19	6.41	4750	599 D	390 D	172	10.4	149	3010 D	59	10.7	18.0 D	< 1.0	442	0.01	0.24	0.005	0.14	0.08	5.97	< 0.1	0.19	0.002	< 0.1	0.514 D	21.4	13.5	34.9	< 0.2	22	72.7
EPA 14	N	4/11/2005	6,854.48	no data	6.21	4570	617	398	176	10.5	168	3050	62	7.9	19.4	< 1.0	105	0.003	0.05	< 0.005	0.1	< 0.05	6.42	< 0.1	0.13	< 0.001	< 0.1	0.111	16.6	10.5	27.1	< 0.2	< 1.0	19.7
EPA 14	N	7/18/2005	6,853.66	5.94	6.33	4390	604 D	377 D	173	10.2	145	2860 D	57	6.2 D	23.5 D	< 1.0	75.8	0.005	0.04	< 0.005	0.08	< 0.05	6.41	< 0.1	0.12	< 0.001	< 0.1	0.0841 D	14.3	12.1	26.4	< 0.2	< 1.0	26.6
EPA 14	N	10/10/2005	6,853.01	6.33	6.40	4820	594 D	427 D	171	11.1	134	3020 D	60	10.5 D	21.1 D	< 1.0	57.9	0.004	0.03	< 0.005	0.1	< 0.05	7.25	< 0.1	0.12	< 0.001	< 0.1	0.0538	16.2	13.2	29.4	< 0.2	< 1.0	25.1
EPA 14	N	1/16/2006	6,852.62	5.95	6.19	4900	568 D	453 D	189	12.3	92	3320 D	64	35 D	17.2 D	< 1.0	304	0.02	0.15	0.01	0.21	< 0.05	9.02	0.1	0.28	0.003	< 0.1	0.174 D	36	15.2	51.2	< 0.2	19	66.1
EPA 14	N	4/10/2006	6,853.48	4.90	4.99	5390	573 D	455 D	171	13.2	21	3710 D	82	50.6 D	16.8 D	< 1.0	44.3	< 0.001	0.04	0.009	0.41	< 0.05	12.5	< 0.1	0.41	< 0.001	< 0.1	0.0272	20.9	20.9	41.8	< 0.2	< 1.0	24.2
EPA 14	N	7/18/2006	6,851.96	4.50	4.71	5320	506 D	478 D	182 D	13.8 D	12	3820 D	74	64.4 D	20.5 D	< 1.0	69.1	< 0.001	0.05	0.011	0.61	< 0.05	16.6	< 0.1	0.55	< 0.001	< 0.1	0.0298	27.6	21.5	49.1	< 0.2	< 1.0	33.6
EPA 14	N	10/10/2006	6,851.39	4.48	4.56	5670	496	500 D	177	15.2	< 1	3800 D	70	73 D	25.6 D	0.93	102	0.002	0.06	0.012	0.66	< 0.05	18.2	< 0.1	0.58	< 0.001	< 0.1	0.0251	20	29.1	49.1	< 0.2	< 1	25.5
EPA 14	N	1/23/2007	6,850.61	4.61	4.48	5790	501 D	501 D	180	14.5	<1	3740 D	72	62.5 D	21.2 D	5.52	64.2	<0.001	0.05	0.012	0.63	<0.05	17.7	<0.1	0.56	<0.001	<0.1	0.0161	16.5	23.2	39.7	<0.2	<1	18.2
EPA 14	N	4/10/2007	6,850.35	4.53	4.38	5960	500 D	516 D	176	14.3	2	3950 D	76	67 D	27 D	4.44	66.3	<0.001	0.05	0.012	0.76	<0.05	16.9	<0.1	0.67	<0.001	<0.1	0.0113	16.7	32.7	49.4	<0.2	<1	35.2
EPA 14	N	7/16/2007	6,849.86	4.31	4.34	5860	523 D	562 D	173	12.3	<1	4280 D	70	70.2 D	32 D	3.3	102	0.002	0.06	0.012	0.72	<0.05	15.8	<0.1	0.76	<0.001	<0.1	0.0103	16.8	36.8	53.6	<0.2	<1	22.4
EPA 14	N	10/9/2007	6,849.38	4.31	4.36	6420	483 D	558 D	174	11.3	<1	4220 D	79	74.9 D	24 D	2.29	121	<0.001	0.07	0.01	0.78	<0.05	17.3	<0.1	0.76	<0.001	<0.1	0.0108	13.8	35.4	49.2	<0.2	<1	26.9
EPA 14	N	1/22/2008	6,848.85	4.3	4.4	6680	440 D	563 D	179	12.8	< 1	4400 D	98	94.6 D	24.6	2.87	163	< 0.001	0.09	0.015	0.9	< 0.05	20.4	< 0.1	0.87	< 0.001	< 0.1	0.014	20.9	52.3	73.2	< 0.2	4.8	27.7
EPA 14	N	4/15/2008	6,848.61	4.2	4.07	6650	482	615	187 D	12.6	< 1	5260 D	77	91.2 D	27.9	3	137	< 0.001	0.09	0.011	0.95 D	< 0.05	22	< 0.1	0.89	< 0.001	0.2	0.0141	17.2	56.1	73.3	0.3	<2.2 U	25.9
EPA 14	N	7/15/2008	6,848.11	4.27	4.25	6740	457	566	174 D	13	< 1	4520 D	58	78.9 D	19.3	3.07	177	< 0.003	0.08	0.016	1.01	< 0.05	23.1	< 0.1	0.99	< 0.001	< 0.1	0.0133	14	32	46	0.3	5.5 U	23
EPA 14	N	10/14/2008	6,847.51	4.20	4.27	6690	478	553	182 D	14	< 1	4740 D	76	75.9 D	17.8	3	119	< 0.001	0.08	0.014	0.96	< 0.05	21.2	< 0.1	0.87	< 0.001	< 0.1	0.0138	13	22	35	0.3	4.5 U	32.2
EPA 14	N	1/13/2009	6,847.61	4.28	4.28	6620	441	522	188	10	<1	3600 D	56	78 D	20.6	<0.5	124	<0.001	0.08	0.01	0.98	<0.05	20.1	<0.1	0.83	<0.001	<0.1	0.0137	12	24	36	0.6 U	0 U	23.6
EPA 14	N	4/7/2009	6,847.36	4.38	4.34	5480	474 D	478 D	180 D	11	<1	3950 D	46	44.4 D	7.9	1.19	52.2	<0.001	0.04	0.008	0.63	<0.05	16.9	<0.1	0.56	<0.001	<0.1	0.0089 D	6.7	13	19.7	0.5 U	<1 U	14.2
EPA 14	N	7/7/2009	6,847.16	4.07	4.22	6190	482	503	172	11	<1	4130 D	67	50 D	15.5 D	0.5	94.2	<0.001	0.07	0.01	0.66	<0.05	15.6	<0.1	0.65	<0.001	<0.1	0.0116	9.2	23	32.2	0.4 U	4.2	19.9
EPA 14	N	10/6/2009	6,846.61	4.42	4.36	5610	533 D	469	170 D	12	<1	4110 D	71	41.4 D	6.2	1.24	50.5 D	<0.001	<0.08	0.007	0.53	<0.05	15.7 D	<0.1	0.5	<0.001	<0.1	0.0068	6.5	13	19.5	<0.1 U	<0.3 U	17.3
EPA 14	N	1/5/2010	6,846.66	4.3	4.4	6180 D	477 D	506	186	12	<5	4300 D	60	42.9 D	15.8 D	1.36	70.7	<0.001	0.06	0.008	0.77	<0.05	15.6	<0.1	0.72	<0.001	<0.1	0.0115	9.3	23	32.3	0.08 U	0.8 U	14.2
EPA 14	N	4/6/2010	6,846.31	4.36	4.18	5960 D	527 D	564	199 D	13	<5	4220 D	62	48.8 D	17.0 D	0.66	96.8	<0.001	0.07	0.011	0.77	<0.05	15.5	<0.1	0.69	<0.001	<0.1	0.0155	9.5	19	28.5	0.04 U	<1 U	14.9
EPA 14	N	7/13/2010	6,845.71	4.17	4.35	6410 D	486 D	569	176 D	11	<5	4660 D	60 D	46 D	20 D	1.7	113	<0.001	0.08	0.011	0.84	<0.05	15	<0.1	0.76	<0.001	<0.1	0.0134	11	20	31	0.2 U	2.6	15.8
EPA 14	N	10/5/2010	6,846.11	4.26	4.33	6610 D	474	556	176	12	<5	4450 D	58 D	44 D	22 D	1.01	105	0.001	0.13	0.008	0.94	<0.05	17.1	<0.1	0.86	<0.001	<0.1	0.0156	6.8	20	26.8	0.2 U	3.3	37.6

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
EPA 14	N	1/5/2011	6,845.61	4.56	4.33	6240 D	479	568	174	12	<5	4620 D	65 D	50 D	21 D	2.24	105	<0.001	0.09	0.008	0.92	<0.05	17.2	<0.1	0.81	<0.001	<0.1	0.0186	10	16	26	0.2 U	2	22.1
EPA 14	N	4/6/2011	6,845.41	4.37	4.38	6560 D	477	576	187	12	<5	4930 D	66 D	50 D	30 D	2.05	124	<0.001	0.12	0.012	0.94	<0.05	18	<0.1	0.84	<0.001	<0.1	0.0233	6.2	17	23.2	0.2 U	2.4	11.2
EPA 14	N	7/12/2011	6,845.03	4.26	4.2	6610 D	496	592	188	11	<5	4880 D	68 D	47 D	28 D	1.02	138	<0.001	0.12	0.009	0.9	<0.05	19.2	<0.1	0.83	<0.001	<0.1	0.0181	6.1	14	20.1	0.5 U	2.2	32.4
EPA 14	N	10/4/2011	6,844.71	4.36	4.4	6180 D	477	568	176	11	<5	4950 D	67 D	42.3 D	25 D	1.3	116	<0.001	0.11	0.01	0.96	<0.05	18.4	<0.1	0.84	<0.001	<0.1	0.0156	6.4	1.4	7.8	0.5 U	2.2	7.8
EPA 14	N	1/3/2012	6,844.41	4.44	4.20 H	6240 D	514	566	177	13	<5	4470 D	60 D	36.0 D	21 D	1.22	97.3	<0.001	0.1	0.01	0.92	<0.05	17.3	<0.1	0.83	<0.001	<0.1	0.0145	8.2	18	44.2	<0.05 U	1.4	7.5
EPA 14	N	4/3/2012	6,843.93	4.34	4.26 H	5930 D	483	481	169	12	<5	4330 D	57 D	30 D	18 D	1.02	84.4	<0.001	0.09	0.01	0.85	<0.05	16.7	<0.1	0.82	<0.001	<0.1	0.0124	6.8	16	38.8	0.07 U	1.6	13.5
EPA 14	N	7/10/2012	6,843.56	4.21	4.31 H	5960	482	535	174	12	<5	4320 D	63 D	29 D	23 D	1.81	83.8	<0.001	0.076	<0.005	0.74	0.007	14.9	<0.1	0.68	<0.001	<0.1	0.0099	6.1	1.7	9.5	0.1 U	1.6	6.4
EPA 14	N	10/9/2012	6,843.26	4.29	4.24 H	6080	470	480	170	12	<5	4090 D	61 D	24 D	12 D	0.66	70.8	<0.001	0.069	0.01	0.75	0.006	15.1	<0.1	0.71	<0.001	<0.1	0.0078	8.1	18	26.1	0.03 U	1.5	4.8
EPA 14	N	1/8/2013	6,841.26	4.46	4.43 H	4720	535	490	184 D	16	<5	3360 D	53 D	37.6 D	12.0 D	<0.50	39.1	<0.001	0.048	<0.005	0.53	0.01	12.7	<0.1	0.49	<0.001	<0.1	0.0057	8.4	9.8	18.2	0.3 U	2.1	6.5
EPA 14	N	4/9/2013	6,841.10	4.7	4.78 H	2260	221	196	78	7	<5	1670 D	28 D	37.3 D	3.0 D	2.92	19.7	<0.001	0.021	0.006	0.62	0.009	12	<0.1	0.6	<0.001	<0.1	0.0068	13	16	29	0.3 U	0.7 U	19.5
EPA 14	N	7/16/2013	6,840.60	4.68	4.54 H	4740	482	392	168	10	no data	2740 D	46 D	17 D	16 D	<1.0	37.5	<0.001	0.037	0.008	0.5	0.017	10	<0.1	0.51	<0.001	<0.1	0.025	5.6	14	19.6	0.2 U	1.6	7.2
EPA 14	N	10/7/2013	6,840.40	5.13	4.78 H	4900	508	485	185	18	<5	3420 D	57 D	44 D	<0.1	<0.50	22.8	<0.001	0.026	0.008	0.63	0.012	11.7	<0.1	0.63	<0.001	<0.1	0.0191	12	14	26	0.2 U	0.4 U	8.7
EPA 14	N	1/14/2014	6,839.99	4.97	4.72	5380	506	442	175	15	<5	3610	63	35	<0.1	<0.50	15.2	<0.001	0.015	0.01	0.81	0.013	15.5	<0.1	0.82	<0.001	<0.1	0.0157	10	12	22	0.5 U	1.9	13.6
EPA 14	N	4/7/2014	6,839.28	5.04	4.76 H	5070	482	438	181 D	16	<5	3850 D	68 D	32 D	<0.1	<0.50	18.4	<0.001	0.022	0.009	0.76	0.009	14.3	<0.1	0.71	<0.001	<0.1	0.0226	13	16	29	0.2 U	1.7	9.5
EPA 14	N	7/14/2014	6,839.59	4.99	4.39 H	4810	515	394	163 D	13	<5	3540 D	62 D	39 D	<0.1	<0.50	21.9	<0.001	0.02	0.008	0.7	0.009	13.9	<0.1	0.69	<0.001	<0.1	0.0237	7.4	9.5	16.9	0.2 U	1.3	9.8
EPA 14	N	10/13/2014	6,839.51	5.37	4.94 H	4370	496	346	159	12	<5	3020 D	58 D	25 D	0.1	<0.50	12.9	<0.001	0.01	0.006	0.42	0.007	10.1	<0.1	0.39	<0.001	<0.1	0.0128	8.8	13	21.8	0.7 U	1 U	10.3
EPA 14	N	1/12/2015	6,839.36	6.70	5.44 H	4040	497	303	152	11	39	2810 D	53 D	16 D	<0.1	<0.50	6.3	<0.001	0.002	0.005	0.34	0.006	8.92	<0.1	0.3	<0.001	<0.1	0.0044	7.2	11	18.2	0.6	0.8 U	22.4
EPA 14	N	4/14/2015	6,839.15	6.45	5.80 H	3990	496	285	149	11	60	2620 D	53	15 D	<0.1	<0.50	17	<0.001	0.006	<0.005	0.27	0.005	7.67	<0.1	0.22	<0.001	<0.1	0.012	4.9	5.6	10.5	-0.2 U	0.4 U	34.1
EPA 14	N	7/13/2015	6,839.13	5.59	5.73 H	4100	496	261	145	13	91	2770 D	44	15 D	<0.1	<0.50	12	<0.001	0.003	<0.005	0.2	0.004	6.62	<0.1	0.16	<0.001	<0.1	0.0073	5.2	9.2	14.4	0.1 U	1.4	25.4
EPA 14	N	10/12/2015	6,838.95	4.47	4.01 H	6550	476	567	190	16	<5	4520 D	80 D	51 D	<0.1	<0.50	92.2	<0.001	0.092	0.014	0.96	0.026	17.9	<0.1	1.04	<0.001	<0.1	0.273	11	30	41	0.6	5.6	24.6
EPA 14	N	1/11/2016	6,838.77	4.89	4.41 H	5590	485	434	164	16	<5	3970 D	78 D	38 D	<0.1	<0.50	63.6	<0.001	0.072	0.009	0.84	0.03	14.9	<0.1	0.89	<0.001	<0.1	0.199	6	12	18	0.4 U	1.2	45.7
EPA 14	N	4/11/2016	6,838.79	4.96	4.57 H	4830	514	419	184	13	<5	3450 D	61 D	32 D	<0.1	<0.50	23	<0.001	0.034	0.006	0.53 D	0.023	11.6	<0.1	0.54	<0.001	<0.1	0.129	8.5	13	21.5	-0.2 U	1.9	52.8
EPA 14	N	7/18/2016	6,838.54	5.13	4.61 H	4560 D	489	368	162	13	<5	3050 D	56 D	27 D	<0.1	<0.50	20.7	<0.001	0.028	<0.005	0.46	0.014	9.71	<0.1	0.46	<0.001	<0.1	0.123	5.4	13	18.4	-0.09 U	1.2 U	16.6
EPA 14	N	10/10/2016	6,838.50	5.22	4.76 H	4440 H	495	342	156	11	<5	3230 D	57 D	23 D	<0.1	<0.50	20.8	<0.001	0.027	<0.005	0.43	0.015	8.9	<0.1	0.41	<0.001	<0.1	0.106	4.8	11	15.8	0.2	1.2	18.9
EPA 14	N	1/16/2017	6,838.54	5.52	4.83 H	4430 D	480	338	149	10	<5	3060 D	56	23 D	0.1	<0.50	14.5	<0.001	0.02	<0.005	0.41	0.009	8.47	<0.1	0.46	<0.001	<0.1	0.0754	5.4	6.1	11.5	0.09 U	1.4	13.7
EPA 14	N	4/10/2017	6,838.19	5.16	4.94 H	4370 DH	485	333	157	11	<5	2990 D	53 D	22 D	0.04	<0.50	15.5	<0.001	0.022	<0.005	0.42	0.01	8.92	<0.1	0.4	<0.001	<0.1	0.0973	6.3	8.7	15	0.8	1.3	16.5
EPA 14	N	7/18/2017	6,838.02	5.40	4.83 H	4440 D	486	365	167	11	<5	2990 D	56 D	24 D	0.07	<0.50	26.8	<0.001	0.032	0.006	0.48	0.014	10.1	<0.1	0.48	<0.001	<0.1	0.134	7	12.1	19.1	0.9	2.2	7.7
EPA 14	N	10/9/2017	6,838.05	5.34	4.97 H	4340 D	479	333	152 D	10	5 BH	2990 DH	51 DH	22 D	0.14	<0.50	8.7	<0.001	0.011	<0.005	0.4	0.005	7.47	<0.1	0.38	<0.001	<0.1	0.0507	5.8	12	17.8	0.3 U	-4 U	6.3
EPA 14	N	1/15/2018	6,837.91	5.65	5.23 H	3960 D	502	321	161 D	15	10	2950 D	50 D	20 D	0.29	<0.50	3.37 D	<0.001	0.004	0.004	0.332	0.002	6.82 D	0.016	0.264	<0.001	<0.01	0.0187	4.1	13.7	17.8	1.7	1.3	6.1
EPA 14	N	4/9/2018	6,837.67	5.57	5.47 H	4120 D	476	321	159	10	33	2820 D	50	18 D	0.23	<0.50	11.9	<0.001	0.018	0.004	0.373	0.008	7.69	0.016	0.34	<0.001	<0.01	0.0867	6.8	8.9	15.7	0.1 U	1.3	8.6
EPA 14	N	7/17/2018	6,837.45	5.47	5.27 H	4040 DH	474	317	157	12	33	2770 D	50	14 D	0.29	<0.50	8.95	<0.02	0.012	0.004	0.323	0.006	6.45	0.021	0.274	0.001	<0.01	0.0594	5.3	14	19.3	0.3 U	0.8 U	4.8
EPA 14	N	10/9/2018	6,837.76	5.55	5.60 H	4000 D	507	304	150 D	10	55	2680 D	48	16 D	0.25	<0.50	13.9	<0.001	0.018	0.004	0.345	0.009	6.32	0.023	0.28	<0.001	<0.01	0.0962	3.7	6.8	10.5	0.3 U	0.7 U	7.4
EPA 14	N	1/14/2019	6,837.31	5.77	5.58 H	3960 D	486	286	141	9	56	3730 D	48 D	11.9 D	0.37	<0.50 J	2.23	no data	0.002	0.003	0.256	0.003	4.94	0.036	0.218	no data	<0.01	0.0304	6.5	7.8	14.3	1.6 U	1	6.1
EPA 14	N	4/15/2019	6,837.30	5.82	5.76	3860	509	251	140	10	81	2650	45	11.3	0.33	<0.50	6.5	0.002	0.009	0.003	0.299	0.009	5.44	0.028	0.236	<0.001	<0.01	0.0578	3.3	5.8	9.1	0.1	0.9	4.7
EPA 14	N	7/23/2019	6,836.96	5.64	5.71 H	3980 DH	465	301	140	10	77	2660 D	46	11.9 D	0.2	<0.50	6 D	0.001	0.008	0.004	0.372	0.006	6.56 D	0.022	0.284	<0.001	<0.01	0.0527	3.9	6.4	10.3	0.7 U	1.4	4.2
EPA 14	N	10/1/2019	6,837.19	5.65	5.78 H	3960 DH	490	280	146	10	143	2700 D	45 D	10 D	0.33	<0.50 J	2.2 L	<0.001	0.006	0.003	0.276	0.003	4.79 L	0.021	0.201	<0.001	<0.01	0.0302	3.8	4.7	8.5	0.06 U	1.1 U	6.2
EPA 15	N	7/29/1989	6,890.20	6.50	6.35	2567	432	145	119	4.8	288	1487	18.4	0.09	13.2	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	1.3	0.5	< 0.05	0.001	< 0.1	0.0408	2.8	4.6	7.4	< 0.2	1.3	2.2
EPA 15	N	10/8/1989	6,883.50	6.00	6.58	2244	380	120	110	7	302	1319	15	0.1	7.4	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	1	< 0.43	< 0.05	< 0.001	< 0.1	0.066	6.6	< 1	6.6	57	1.1	69
EPA 15	N	1/16/1990	6,881.50	5.90	6.48	2524	369	139	116	5.75	302	1499	18.3	0.19	5.9	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.01	< 0.05	1.6	0.37	< 0.05	< 0.001	< 0.1	0.037	1.7	3.2	4.9	0.2	< 1	1.7
EPA 15	N	4/18/1990	6,880.30	6.10	6.56	2532	381	140	117	5.6	322	1419	17.6	0.21	7.8	< 1	< 0.1	0.001	< 0.05	< 0.01	< 0.01	0.08	1.5	0.42	< 0.05	< 0.001	< 0.1	0.039	2.1	4.3	6.4	< 0.2	< 1	2.9
EPA 15	N	7/10/1990	6,879.10	6.20	6.60	2586	392	146	113	5.1	311	1475	18.6	0.07	8.92	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.04	< 0.05	1.39	0.34	< 0.05	< 0.001	< 0.1	0.074	2.3	2.1	4.4	< 0.2	< 1	2.8
EPA 15	N	10/10/1990	6,879.80	6.40	6.75	2548	374	143	118	6	303	1412	18.5	0.11	9.55	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.03	< 0.05	1.45	0.3	< 0.05	< 0.001	< 0.1	0.0618	2.1	1.1	3.2	< 0.2	< 1	2
EPA 15	N	1/10/1991	6,878.80	6.30	7.05	2359	397	142	113	7.1	316	1347	19.1	0.07	10.4	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	1.19	0.33	< 0.05	0.001	< 0.1	0.0554	1.8	1.7	3.5	< 0.2	< 1	2.1
EPA 15	N	4/16/1991	6,879.20	6.20	7.08	2429	382	135	130	6.1	336	1360	18.8	0.1	16.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	1.15	0.43	< 0.05	< 0.001	< 0.1	0.078	2.9	< 1	2.9	< 0.2	< 1	3
EPA 15	N	7/3/1991	6,876.00	6.40	6.86	2548	384	149	114	5.2	325	1565	21.9	0.11	15.6	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.03	< 0.05	1.55	0.42	< 0.05	0.001	< 0.1	0.128	2.1	3.9	6	< 0.2	< 1	2
EPA 15	N	10/23/1991	6,871.10	6.20	7.03	2873	401	176	134	6	278	1789	31.6	0.44	24.8	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	2.06	0.34	0.07	< 0.001	< 0.1	0.1015	2.1	6.3	8.4	< 0.2	< 1	< 1
EPA 15	N	1/23/1992	6,873.50	6.10	6.93	2603	368	175	122	6.3	292	1588	21.2	0.19	11.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	2.39	< 0.56	< 0.05	0.001	< 0.1	0.065	1.6	1.8	3.4	< 0.2	1.4	2
EPA 15	N	4/2/1992	6,873.80	6.10	7.60	2809	413	209	166	8.4	312	1753	23.7	0.31	15	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	2.24	0.58	< 0.05	0.001	< 0.1	0.066	2	4.1	6.1	< 0.2	< 1	2.1
EPA 15	N	7/16/1992	6,866.90	6.10	6.84	3214	462	262	156	7.8	246	2206	32.5	0.37	12.7	< 1	< 0.1	0.002	< 0.01	< 0.01	0.02	< 0.05	2.98	0.35	< 0.05	< 0.001	< 0.1	0.034	4.6	8.8	13.4	< 0.2	< 1	4.9
EPA 15	N	10/15/1992	6,866.20	6.00	6.61	4002	525	263	167	10	237	2451	32.6	0.27	17.3	< 1	< 0.1	0.003	< 0.01	< 0.01	0.02	< 0.05	3.68	0.59	0.06	< 0.001	< 0.1	0.014	4.9	3.9	8.8	< 0.2	< 1	5.2
EPA 15	N	1/13/1993	6,869.00	6.20	6.75	2950	459	181	124	8.2	287	1748	26.8	0.19	11	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	2.56	0.72	< 0.05	< 0.001	< 0.1	0.064	2	4.5	6.5	< 0.2	< 1	2.7
EPA 15	N	4/15/1993	6,869.40	6.30	6.94	2816	471	150	132	5	322	1666	23.6	0.15	13.3	< 1	< 0.1	0.001	< 0.01	< 0.01	0.03	< 0.05	1.97	0.62	< 0.05	< 0.001	< 0.1	0.099	1.8	4.3	6.1	< 0.2	< 1	2
EPA 15	N	7/20/1993	6,864.60	6.30	6.93	3326	542	240	142	8.2	287	2133	30.8	0.06	27.5	< 1	< 0.1	0.001	< 0.01	< 0.01	0.02	< 0.05	2.62	1.13	< 0.05	0.002	< 0.1	0.061	3	4.9	7.9	< 0.2	< 1	3.6
EPA 15	N	10/12/1993	6,860.70	6.40	6.34	4110	578	306	158	9	212	2766	41.3	1.27	17	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	4.18	< 0.1	< 0.05	0.001	< 0.1	0.03	6.4	5.5	11.9	< 0.2	1.4	8
EPA 15	N	1/11/1994	6,864.20	6.50	7.00	3001	499	187	128	5.7	288	1774	28.5	< 0.05	12.8	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.21	1.21	< 0.05	< 0.001	< 0.1	0.074	3.3	5.2	8.5	< 0.2	< 1	12.1
EPA 15	N	4/19/1994	6,863.90	6.40	6.63	2537	411	137	125	5.8	296	1537	22.6	0.19	9.5	< 1	< 0.1	0.002	< 0.01	< 0.01	0.05	< 0.05	1.16	1.2	< 0.05	0.001	< 0.1	0.121	3.1	5	8.1	< 0.2	< 1	10.8
EPA 15	N	7/26/1994	6,862.20	6.20	7.43	4123	627	284	139	7.1	265	2390	31	0.46	33.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.82	0.93	< 0.05	0.009	< 0.1	0.05	4.6	8.2	12.8	< 0.2	1.8	17.1
EPA 15	N	10/11/1994	6,861.60	6.10	6.94	4502	640	342	163	9.6	214	3049	39	3.12	31.5	< 1	0.3	< 0.001	< 0.01	< 0.01	0.07	< 0.05	4.42	0.75	< 0.05	< 0.001	< 0.1	0.029	7.7	4.5	12.2	< 0.2	3.8	14.7
EPA 15	N	1/10/1995	6,861.70	6.10	7.09	4144	665	204	133	8.5	244	2567	36.5	1	37.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	3.08	0.81	< 0.05	< 0.001	< 0.1	0.045	6	3.8	9.8	< 0.2	< 1	11.9
EPA 15	N	4/11/1995	6,861.90	6.40	6.51	4187	674	302	136	7.6	262	2542	19.9	1.09	44.4	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.08	0.67	< 0.05	< 0.001	< 0.1	0.038	4.3	5.6	9.9	< 0.2	< 1	12.7

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
EPA 15	N	7/11/1995	6,860.30	5.60	5.87	4169	585	359	144	9.9	24.5	2833	44.5	0.78	29.5	< 1	5.65	< 0.001	< 0.01	< 0.01	0.2	< 0.05	7.18	0.65	0.19	< 0.001	< 0.1	0.012	11.6	22.2	33.8	< 0.2	< 1	29.5
EPA 15	N	10/10/1995	6,859.70	5.50	5.82	4153	585	370	162	10.6	23.2	2961	40	5.86	24.3	1.56	5.67	0.001	< 0.01	< 0.01	0.17	< 0.05	7.13	1.05	0.16	0.01	< 0.1	0.0087	12.6	8.1	20.7	< 0.2	< 1	19.8
EPA 15	N	1/8/1996	6,858.50	5.30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
EPA 17	N	7/20/1989	6,886.60	6.40	6.11	6709	501	785	167	13.3	159	4674	35.6	1.22	0.13	< 1	0.18	0.224	< 0.05	< 0.01	0.08	< 0.05	6.9	1.2	0.24	< 0.001	< 0.1	0.053	3.4	3.4	6.8	18.4	1.2	14.4
EPA 17	N	10/8/1989	6,887.00	6.40	6.50	6714	491	829	160	12	154	4526	35.3	0.59	0.06	< 1	< 0.1	0.253	< 0.05	< 0.01	0.07	< 0.05	6.7	0.83	0.21	< 0.001	< 0.1	0.076	1.1	2.7	3.8	< 0.2	< 1	3
EPA 17	N	1/10/1990	6,886.30	6.30	6.48	6822	491	844	158	13.1	162	4440	34.3	0.57	0.14	< 1	0.16	0.133	< 0.05	< 0.01	0.12	< 0.05	5.9	0.46	0.24	< 0.001	< 0.1	0.046	1.9	3.1	5	< 0.2	< 1	2.3
EPA 17	N	4/10/1990	6,886.20	6.30	6.30	6855	495	830	153	12.4	151	4333	33.9	0.67	0.21	< 1	< 0.1	0.14	< 0.05	0.02	0.13	no data	6.7	0.32	0.17	< 0.001	< 0.1	0.048	2.4	3.5	5.9	< 0.2	< 1	3.4
EPA 17	N	7/10/1990	6,886.00	6.10	6.50	6930	493	807	154	13.8	159	4467	33.6	0.29	0.53	< 1	0.14	0.019	< 0.05	< 0.01	0.07	< 0.05	6.77	0.22	0.25	< 0.001	< 0.1	0.045	2.5	3.7	6.2	< 0.2	< 1	2.9
EPA 17	N	10/9/1990	6,885.90	6.30	6.77	6854	465	812	162	13.4	135	4232	32.2	0.22	0.07	< 1	< 0.1	0.054	< 0.05	< 0.01	0.09	< 0.05	6.63	0.2	0.23	< 0.001	< 0.1	0.0332	2.2	7.6	9.8	< 0.2	< 1	2
EPA 17	N	1/11/1991	6,885.60	6.20	6.30	6678	511	795	160	14.6	122	4489	36.9	0.57	0.14	< 1	< 0.1	0.022	< 0.01	< 0.01	0.12	< 0.05	7.5	< 0.1	0.29	< 0.001	< 0.1	0.0134	3.4	3.9	7.3	< 0.2	< 1	3.8
EPA 17	N	4/10/1991	6,885.40	6.30	6.90	6751	545	758	156	12.3	143	4007	34.8	0.45	0.11	< 1	0.36	0.007	< 0.01	< 0.01	0.12	< 0.05	6.6	0.12	0.29	< 0.001	< 0.1	0.0147	3.2	< 1	3.2	< 0.2	< 1	3
EPA 17	N	7/9/1991	6,885.10	6.30	6.46	6742	563	712	139	10.9	112	4385	33.5	0.68	< 0.01	< 1	0.26	0.002	< 0.01	< 0.01	0.08	< 0.05	6.15	< 0.1	0.17	< 0.001	< 0.1	0.0151	1.8	< 5.3	1.8	< 0.2	< 1	2
EPA 17	N	10/17/1991	6,885.00	6.20	6.86	6749	514	676	155	14.1	159	4151	33.5	0.33	0.08	< 1	0.13	0.003	< 0.01	< 0.01	0.09	< 0.05	5.98	< 0.1	0.22	< 0.001	< 0.1	0.0132	2	< 1	2	< 0.2	< 1	2
EPA 17	N	1/21/1992	6,884.70	6.30	6.66	6718	473	769	145	11.5	159	4556	37.5	0.33	< 0.1	< 1	< 0.1	0.005	< 0.01	< 0.01	0.08	< 0.05	5.42	0.1	0.17	0.001	< 0.1	0.023	1.3	< 1	1.3	< 0.2	1.2	1
EPA 17	N	4/14/1992	6,884.50	6.40	7.72	5908	441	528	157	12.5	255	3632	34.3	0.5	< 0.1	< 1	< 0.1	0.022	< 0.01	< 0.01	0.05	< 0.05	5.08	0.37	0.15	0.002	< 0.1	0.041	1.2	8.3	9.5	< 0.2	< 1	1.2
EPA 18	N	7/25/1989	6,884.40	5.70	5.46	5818	543	608	132	11.6	44	3974	27.1	0.46	0.08	< 1	< 0.1	0.008	< 0.05	< 0.01	0.19	< 0.05	6.7	0.05	0.23	< 0.001	< 0.1	0.031	7.3	5.3	12.6	6.1	< 1	8
EPA 18	N	10/4/1989	6,884.10	5.30	5.97	5742	513	604	113	12.6	49	3746	27.5	0.43	0.01	< 1	< 0.1	0.006	< 0.05	< 0.01	0.21	< 0.05	7	< 0.01	0.27	< 0.001	< 0.1	0.037	5.6	6.9	12.5	0.3	2.1	6.2
EPA 18	N	1/16/1990	6,883.30	5.20	5.46	5514	468	549	123	11.1	19.5	3654	25.4	0.5	0.06	< 1	< 0.1	0.004	< 0.05	< 0.01	0.2	< 0.05	7.5	< 0.1	0.3	< 0.001	< 0.1	0.019	4.5	7.7	12.2	0.7	< 1	5.3
EPA 18	N	4/17/1990	6,882.70	5.20	5.26	5585	464	520	122	10.5	10.2	3582	27	0.49	0.16	< 1	< 0.1	0.002	< 0.05	< 0.01	0.2	< 0.05	6.3	< 0.1	0.27	< 0.001	< 0.1	0.019	7.1	5.4	12.5	< 0.2	1.2	7.6
EPA 18	N	7/17/1990	6,881.90	5.40	5.68	5902	543	608	124	31.8	31.5	3513	26.4	0.27	0.07	< 1	0.2	0.012	< 0.05	< 0.01	0.17	< 0.05	6.09	0.12	0.28	< 0.001	< 0.1	0.0824	4.2	3.4	7.6	< 0.2	< 1	4
EPA 18	N	10/16/1990	6,881.30	5.40	5.93	5925	508	588	139	11	26	3880	32.2	0.39	0.04	< 1	0.1	0.015	< 0.05	< 0.01	0.19	< 0.05	6.49	< 0.1	0.27	< 0.001	< 0.1	0.0577	6.3	12.1	18.4	< 0.2	1.4	6
EPA 18	N	1/8/1991	6,880.60	5.10	5.25	5905	518	647	129	18	12	3917	28.3	0.53	< 0.01	< 1	0.61	0.001	< 0.01	< 0.01	0.21	< 0.05	6.89	< 0.1	0.27	< 0.001	< 0.1	0.0357	6.4	7.6	14	< 0.2	< 1	6
EPA 18	N	4/16/1991	6,880.30	5.00	5.50	5946	551	712	144	10.6	10	3916	34.1	0.48	< 0.01	< 1	< 0.1	0.001	< 0.01	< 0.01	0.17	< 0.05	6.13	< 0.1	0.22	< 0.001	< 0.1	0.031	5.5	9.6	15.1	< 0.2	2.5	6
EPA 18	N	7/3/1991	6,879.90	5.30	5.97	6159	577	698	129	9.4	36	4215	15.8	0.64	0.01	< 1	0.66	0.024	< 0.01	< 0.01	0.14	< 0.05	6.62	0.1	0.2	< 0.001	< 0.1	0.07	4.2	8.2	12.4	< 0.2	< 1	4
EPA 18	N	10/22/1991	6,879.60	5.40	5.81	6202	484	722	139	10.6	69	4235	38.3	0.61	0.02	< 1	0.34	0.019	< 0.01	< 0.01	0.13	< 0.05	7.44	< 0.1	0.21	< 0.001	< 0.1	0.0005	4.6	< 1	4.6	< 0.2	< 1	5
EPA 18	N	1/22/1992	6,879.00	5.60	6.00	6396	484	657	135	10.4	36.8	4267	29.4	0.61	< 0.01	< 1	0.27	0.014	< 0.01	< 0.01	0.1	< 0.05	6.15	< 0.1	0.17	< 0.001	< 0.1	0.086	7.9	6.8	14.7	< 0.2	< 1	8
EPA 18	N	4/2/1992	6,878.80	5.50	7.16	5799	508	660	167	13.1	75.1	4351	38.3	0.67	< 0.01	< 1	< 0.1	0.014	< 0.01	< 0.01	0.13	< 0.05	7.16	0.1	0.26	< 0.001	< 0.1	0.078	4.9	10.3	15.2	< 0.2	< 1	4.7
EPA 18	N	7/15/1992	6,877.70	5.50	6.09	6375	492	686	131	11.5	8	4196	29.7	0.25	0.1	< 1	< 0.1	0.003	< 0.01	< 0.01	0.12	< 0.05	6.45	< 0.1	0.19	< 0.001	< 0.1	0.064	4.3	9.8	14.1	< 0.2	1	5
EPA 18	N	10/14/1992	6,877.20	5.30	5.38	6100	480	624	132	11.3	12.2	4126	30.5	0.32	< 0.1	< 1	0.18	0.002	< 0.01	< 0.01	0.15	< 0.05	5.97	< 0.1	0.24	< 0.001	< 0.1	0.081	5.5	10.2	15.7	< 0.2	1.8	5.8
EPA 18	N	1/14/1993	6,877.90	5.20	5.74	5947	455	609	137	9.9	16.8	4187	30.9	0.69	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.16	< 0.05	7.66	< 0.1	0.32	< 0.001	< 0.1	0.038	6.6	11.5	18.1	< 0.2	< 1	6.8
EPA 18	N	4/15/1993	6,877.80	5.30	5.79	6132	414	694	152	9.8	18.1	3999	31.2	0.51	0.2	< 1	< 0.1	0.001	< 0.01	< 0.01	0.16	< 0.05	6.91	< 0.1	0.26	< 0.001	< 0.1	0.058	4.1	9	13.1	< 0.2	< 1	4.5
EPA 18	N	7/20/1993	6,876.50	5.30	5.75	5982	489	705	147	10.4	12.3	4215	31.9	0.32	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.18	< 0.05	6.51	< 0.1	0.31	< 0.001	< 0.1	0.045	6.4	12.6	19	< 0.2	< 1	7.9
EPA 18	N	10/12/1993	6,873.80	5.80	5.44	5825	473	690	135	10.5	18	4264	28.9	0.39	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.14	< 0.05	6.57	< 0.1	0.24	< 0.001	< 0.1	0.058	7	7.8	14.8	< 0.2	1.8	7
EPA 18	N	1/11/1994	6,875.60	5.70	6.22	6038	453	707	134	10.2	20.3	4228	29.5	0.46	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.12	< 0.05	6.7	< 0.1	0.28	< 0.001	< 0.1	0.041	6.2	12.3	18.5	< 0.2	< 1	25.6
EPA 18	N	4/20/1994	6,874.90	5.50	6.00	5622	458	683	125	9.8	15.3	4196	33	1.09	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.12	< 0.05	5.69	< 0.1	0.27	< 0.001	< 0.1	0.023	5.1	6.8	11.9	< 0.2	< 1	15.5
EPA 18	N	7/26/1994	6,875.90	5.70	6.69	5618	525	682	149	11.3	17.7	4106	30.7	0.46	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.15	< 0.05	6.64	< 0.1	0.23	< 0.001	< 0.1	0.012	6	13.5	19.5	< 0.2	< 1	26.4
EPA 18	N	10/11/1994	6,874.50	5.80	6.55	6374	456	764	157	11.4	22.4	4604	33.7	0.75	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.08	< 0.05	5.3	< 0.1	0.16	< 0.001	< 0.1	0.008	5.9	4.4	10.3	< 0.2	3.4	12.7
MW-6	N	7/19/2011	6,801.44	6.67	7.29	3970 D	458	328	184	10	225	2610 D	35 D	0.35	<0.5	<0.50	0.1	0.005	<0.01	<0.005	0.11	<0.05	3.49	5.5	0.16	<0.001	<0.1	0.0882	1.4	2	3.4	0.01 U	<0.5 U	1.6
MW-6	N	10/11/2011	6,801.57	6.71	7.49	4130 D	no data	no data	no data	no data	191	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-6	N	1/10/2012	6,801.19	6.59	7.04 H	3920	no data	no data	no data	no data	206	no data	37 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-6	N	4/10/2012	6,800.64	6.41	6.45 H	3970	no data	no data	no data	no data	235	no data	38 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-6	N	7/17/2012	6,798.79	6.81	6.77 H	3880	378	274	338	11	454	2290 D	122 D	0.72	<0.1	<0.50	<0.1	<0.001	<0.001	0.009	0.06	<0.001	2.86	11.8	0.08	<0.001	<0.1	0.321	2.5	3.4	9.3	0.005 U	0.3 U	2.4
MW-6	N	10/17/2012	6,797.49	6.88	6.61 H	4680	508	383	213 D	10	281	2840 D	38 D	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.11	<0.001	3.83	4.6	0.15	<0.001	<0.1	0.129	2.6	5.7	8.3	0.07 U	-0.04 U	3.5
MW-6	N	1/16/2013	6,796.54	6.53	6.43 H	4510	542	446	173 D	11	190	3170 D	35 D	0.35	<0.1	<0.50	0.4	0.005	<0.001	<0.005	0.15	0.001	4.66	2.9	0.21	<0.001	<0.1	0.0522	2.3	2.6	4.9	0.06 U	0.5 U	2.1
MW-6	N	4/9/2013	6,796.23	6.4	6.45 H	4660	555	458	182	10	201	3260 D	31 D	0.37	0.3	<0.50	0.5	0.003	<0.001	<0.005	0.13	<0.001	4.82	2.3	0.17	<0.001	<0.1	0.0411	2.6	4.2	6.8	0.08	-0.6 U	2.7
MW-6	N	7/16/2013	6,795.38	6.31	7.40 H	4790	532	435	162	10	193	3180 D	31 D	0.44	<0.1	<0.50	0.2	<0.001	<0.001	<0.005	0.12	<0.001	4.57	2.3	0.16	<0.001	<0.1	0.0485	2.9	7.5	10.4	0.1 U	-0.1 U	4.5
MW-6	N	10/8/2013	6,795.57	6.46	6.79 H	4760	536	440	165	11	191	3180 D	31 D	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.12	<0.001	4.4	2.4	0.16	<0.001	<0.1	0.0431	3.6	4.8	8.4	0.09	0.06 U	4
MW-6	N	1/15/2014	6,795.06	6.83	6.61	4740	546	420	159	10	186	3050	30	0.39	<0.1	<0.50	<0.1	0.001	<0.001	<0.005	0.1	<0.001	4.27	2.2	0.15	<0.001	<0.1	0.0442	2.8	4.7	7.5	0.08 U	0.04 U	3.3
MW-6	N	4/8/2014	6,794.11	6.48	6.99 H	4670	513	392	151	10	197	3080 D	30 D	0.4	<0.1	<0.50	0.1	<0.001	<0.001	<0.005	0.1	<0.001	4.07	2.1	0.14	<0.001	<0.1	0.0367	3.5	5.7	9.2	0.004 U	-0.6 U	4.5
MW-6	N	7/15/2014	6,793.51	7.46	7.41 H	3810	no data	no data	no data	no data	142	no data	27	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-6	N	10/14/2014	6,793.39	7.08	7.41 H	5110	no data	no data	no data	no data	194	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-6	N	1/13/2015	6,792.75	6.97	7.48 H	4770	no data	no data	no data	no data	177	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-6	N	4/14/2015	6,792.37	6.86	7.17 H	4690	no data	no data	no data	no data	185	no data	31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-6	N	7/15/2015	6,792.24	7.18	7.04 H	4660	no data	no data	no data	no data	248	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-7	N	7/19/2011	6,802.12	7.46	7.68	3660	640	167	155	6	542	2030 D	52 D	0.45	<0.5	<0.50	<0.1	0.044	<0.01	<0.005	0.03	<0.05	2.51	0.8	0.06	<0.001	<0.1	0.162	7	6.1	13.1	0.03 U	<0.5 U	5.2
MW-7	N	10/11/2011	6,802.03	6.77	7.44	3650	no data	no data	no data	no data	459	no data	53 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-7	N	1/10/2012	6,801.66	6.75	7.17 H	3670	no data	no data	no data	no data	445	no data	49 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-7	N	4/10/2012	6,801.32	6.62	6.71 H	3800	no data	no data	no data	no data	409	no data	43 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-7	N	7/17/2012	6,799.72	6.41	6.64 H	3990	650	195	139	9.1	337	2390 D	42 D	2.11	0.5	<0.50	<0.1	0.002	<0.001	<0.005	0.09	<0.001	4.32	2	0.09	0.002	<0.1	0.0976	7.8	7.1	22	<0.007 U	0.7 U	7.9
MW-7	N	10/16/2012	6,799.12	6.61	6.73 H	3900	673	229	150	9	348	2490 D	41 D	1.1 D	0.7 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.06	<0.001	3.77	0.8	0.1	<0.001	<0.1	0.165	7.5	14	21.5	0.005 U	0.5 U	7.7

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
MW-7	N	1/14/2013	6,797.94	6.59	6.64 H	3880	671	229	150	9	386	2370 D	42 D	0.51	0.4	<0.50	<0.1	<0.001	<0.001	<0.005	0.06	0.001	3.74	1.1	0.09	0.002	<0.1	0.198	7.8	7.9	15.7	0.03 U	-0.02 U	7.7
MW-7	N	4/9/2013	6,797.85	6.59	6.71 H	3680	657	230	159	8	380	2470 D	42 D	0.42	1.2	<0.50	<0.1	<0.001	<0.001	<0.005	0.07	<0.001	3.49	0.9	0.08	<0.001	<0.1	0.221	10	14	24	0.07 U	0.3 U	8.8
MW-7	N	7/16/2013	6,796.72	6.72	6.69 H	3990	646	213	148	9	416	2370 D	43 D	0.42	0.1	<0.50	<0.1	<0.01	<0.001	<0.005	0.05	<0.001	3.11	0.8	0.07	<0.001	<0.1	0.233	7.3	14	21.3	0.06 U	0.06 U	8.3
MW-7	N	10/8/2013	6,797.88	6.61	7.03 H	3870	636	209	151	9	434	2310 D	42 D	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.05	<0.001	3.02	0.8	0.07	<0.001	<0.1	0.205	11	10	21	0.1	0.1 U	11
MW-7	N	1/14/2014	6,796.90	6.81	7.12	3850	664	211	153	8	422	2230	43	0.45	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.03	<0.001	2.74	0.7	0.06	<0.001	<0.1	0.223	7.3	8.9	16.2	0.06 U	-0.07 U	8.5
MW-7	N	4/8/2014	6,795.10	6.75	6.91 H	3780	626	208	147	8	415	2280 D	45	<0.05	0.4	<0.50	<0.1	<0.001	<0.001	<0.005	0.04	<0.001	2.84	0.7	0.06	<0.001	<0.1	0.179	8.4	12	20.4	0.02 U	0.3 U	7.9
MW-7	N	7/15/2014	6,794.66	6.57	6.61 H	3700	591	217	148	8	391	2370 D	41	0.4	<0.1	<0.50	<0.1	0.016	<0.001	<0.005	0.05	<0.001	3.17	0.7	0.06	<0.001	<0.1	0.143	7.2	8.7	15.9	0.08	0.5 U	9.1
MW-7	N	10/14/2014	6,795.48	6.73	6.91 H	3840	614	216	136	7	378	2430 D	43 D	<0.05	0.4	<0.50	<0.1	<0.001	<0.001	<0.005	0.04	0.003	2.98	0.6	0.06	<0.001	<0.1	0.143	8.2	20	28.2	0.06 U	0.4 U	8.7
MW-7	N	1/13/2015	6,793.79	6.86	6.78 H	3900	638	223	147	8	388	2510 D	44 D	<0.05	0.4	<0.50	<0.1	<0.001	<0.001	<0.005	0.05	<0.001	3.29	0.6	0.08	<0.001	<0.1	0.14	10	12	22	0.1	-0.3 U	20.4
MW-7	N	4/14/2015	6,794.29	6.48	7.60 H	3950	635	229	147	8	355	2400 D	42	<0.05	0.4	<0.50	<0.1	<0.001	<0.001	<0.005	0.05	<0.001	3.17	0.5	0.06	<0.001	<0.1	0.12	8.2	9.7	17.9	0.005 U	0.4 U	27.5
MW-7	N	7/14/2015	6,793.05	6.90	6.56 H	4190	616	263	136	11	361	2660 D	39 D	0.18	0.1	<0.50	<0.1	0.01	<0.001	<0.005	0.06	0.001	3.59	0.5	0.1	<0.001	<0.1	0.0834	8.9	12	20.9	0.04 U	0.3 U	29.6
MW-7	N	1/12/2016	6,792.30	6.52	6.47 H	4200	633	292	144	11	286	2800 D	41	0.36	<0.1	<0.50	<0.1	0.042	<0.001	<0.005	0.1	<0.001	4.16	0.5	0.12	<0.001	<0.1	0.0637	8	11	19	0.03 U	0.07 U	37
MW-7	N	4/12/2016	6,792.14	6.76	7.07 H	4390	629	319	148	9	241	2840 D	34 D	0.13	0.3	<0.50	0.1	0.001	<0.001	<0.005	0.10 D	<0.001	4.67	0.4	0.12	<0.001	<0.1	0.0479	8.9	17	25.9	0.05 U	0.9 U	42.5
MW-7	N	7/19/2016	6,791.69	6.50	6.92 H	4340 D	609	318	145	9	247	2840 D	37 D	<0.05	0.3	<0.50	<0.1	0.001	<0.001	<0.005	0.06	<0.001	3.19	0.4	0.08	<0.001	<0.1	0.0592	8.4	15	23.4	-0.008 U	0.2 U	11.3
MW-7	N	10/11/2016	6,791.59	6.39	6.86 H	4310	589	334	144	9	234	2870 D	34 D	<0.05	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	0.13	<0.001	4.15	0.3	0.15	<0.001	<0.1	0.0465	9.3	12	21.3	0.03 U	0.3 U	18.7
MW-7	N	1/17/2017	6,791.02	6.54	6.66 H	3930 D	588	312	139	8	221	2830 D	33	0.56	0.1	<0.50	<0.1	0.016	<0.001	<0.005	0.15	<0.001	3.98	0.4	0.17	<0.001	<0.1	0.0486	8.5	13	21.5	0.02 U	0.3 U	14.6
MW-7	N	4/11/2017	6,790.68	6.39	6.74 H	4110 D	584	309	143	9	257	2770 D	34 D	0.22	0.4	<0.50	<0.1	0.003	<0.001	<0.005	0.14	<0.001	4.37	0.3	0.15	<0.001	<0.1	0.0455	8.7	1.1 U	8.7	0.05 U	0.6 U	15.6
MW-7	N	7/18/2017	6,790.58	6.37	7.67 H	4330 D	585	319	148	9	220	2700 D	34 D	0.25	0.41	<0.50	<0.1	0.004	<0.001	<0.005	0.15	<0.001	4.81	0.4	0.16	<0.001	<0.1	0.0532	10.7	15.3	26	0.01 U	2.1	11.9
MW-7	N	10/10/2017	6,790.23	6.80	7.20 H	4240 D	592	311	145 D	9	263	2810 D	37 D	<0.05	0.64	<0.50	<0.1	<0.001	<0.001	<0.005	0.15	<0.001	4.85	0.4	0.14	<0.001	<0.1	0.0615	8.3	15	23.3	0.05 U	0.7 U	10.3
MW-7	N	1/16/2018	6,790.04	7.66	6.76 H	4240 D	582	316	147 D	9	219	2890 D	32 D	0.39	0.23	<0.50	0.04	0.005	<0.001	<0.001	0.135	<0.001	4.69	0.399	0.154	<0.001	<0.01	0.0621	8.2	10.8	19	0.01 U	0.9 U	11.2
MW-7	N	4/10/2018	6,789.64	7.53	6.73 H	4200 D	549	318	144	9	239	2840 D	33 D	<0.05	0.64	<0.50	0.06	<0.001	<0.001	<0.001	0.15	<0.001	4.65	0.391	0.157	<0.001	<0.01	0.059	10.5	14.2	24.7	0.07 U	0.3 U	12.3
MW-7	N	7/17/2018	6,789.68	7.44	7.85 H	4220 D	no data	no data	no data	no data	219	no data	33 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
MW-7	N	10/9/2018	6,789.61	6.29	6.66 H	4620 D	613	352	151 D	10	204	3110 D	35 D	0.11	0.57	<0.50	<0.03	0.004	<0.001	<0.001	0.193	<0.001	4.34	0.332	0.193	<0.001	<0.01	0.0533	7.9	7.4	15.3	0.008 U	0.7 U	11
MW-7	N	1/15/2019	6,789.42	7.47	6.58 H	4740 D	546	372	155 D	11	177	3200 D	34 D	<0.05	0.63	<0.50	<0.03	no data	<0.001	<0.001	0.162	<0.001	4.19	0.338	0.235	no data	<0.01	0.043	8.1	7.7	15.8	0.07 U	0.5 U	10.5
MW-7	N	4/15/2019	678.35	6.32	6.55 H	4790 D	610	364	137	9	184	3130 D	31 D	0.15	0.51	<0.50	<0.03	0.006	<0.001	<0.001	0.15	<0.001	3.75	0.278	0.194	<0.001	<0.01	0.0429	8.2	10.6	18.8	0.04 U	-0.3 U	19
MW-7	N	7/23/2019	6,789.03	6.30	6.62 H	4780 D	568	394	144	10	181	3030 D	32	0.41	0.5	0.69	0.06	0.013	<0.001	<0.001	0.199	<0.001	4.68 D	0.231	0.234	<0.001	<0.01	0.0448	9	5.6	14.6	0.07	0.7 U	9.8
MW-7	N	10/3/2019	6,788.99	6.24	6.49 H	4750 D	579	403	156	10	193	3170 D	33	<0.05	0.7	<0.50	<0.03	0.037	<0.001	<0.001	0.282	<0.001	5.47 D	0.199	0.292	<0.001	<0.01	0.0406	10	9.3	19.3	0.07 U	0.9 U	10.9
NBL-01	N	8/15/2001	6,820.10	6.61	6.90	3220	550	162	116	6.83	343	1730	36.8	0.41	< 0.1	< 1	< 0.1	0.57	< 0.01	< 0.005	0.05	< 0.05	1.47	2.62	0.19	< 0.001	< 0.1	0.294	7.3	7	14.3	< 0.2	< 1	8.1
NBL-01	N	10/3/2001	6,819.89	6.70	7.50	3160	550	150	100	7	346	1680	40	0.29	< 0.1	< 1	< 0.1	0.714	< 0.01	< 0.005	0.05	< 0.05	1.59	2.86	0.08	< 0.001	< 0.1	0.276	7	5.2	12.2	< 0.2	< 1	6.3
NBL-01	N	1/7/2002	6,819.70	7.25	7.00	3110	564	158	115	7	342	1840	36	0.26	< 0.1	< 1	< 0.1	0.613	< 0.01	< 0.005	0.05	< 0.05	1.59	3.2	0.11	< 0.001	< 0.1	0.245	6	4.5	10.5	< 0.2	< 1	5.8
NBL-01	N	4/17/2002	6,819.90	6.25	7.66	3220	542	167	113	6.8	336	1780	37.9	0.29	< 0.1	< 1	< 0.1	0.768	< 0.01	< 0.005	0.05	< 0.05	1.68	3.2	0.09	< 0.001	< 0.1	0.287	5.8	5.3	11.1	0.5	< 1	7.8
NBL-01	N	7/15/2002	6,819.65	6.65	7.68	3310	516	185	123	7.1	339	1810	26	0.43	< 0.1	< 1	< 0.1	0.728	< 0.01	< 0.005	0.05	< 0.05	1.78	2.8	0.09	< 0.001	< 0.1	0.261	4.5	4.5	9	< 0.2	< 1	5.4
NBL-01	N	10/15/2002	6,819.54	7.18	7.48	3120	631	176	121	6.3	330	2070	31.4	0.45	< 0.1	< 1	< 0.1	0.776	< 0.01	< 0.005	0.06	< 0.05	2.01	2.2	0.1	< 0.001	< 0.1	0.251	6.4	3.1	9.5	< 0.2	< 1	5.6
NBL-01	N	1/15/2003	6,819.49	6.43	7.29	3290	620	178	101	5.1	335	1930	20.1	0.47	< 0.1	< 1	< 0.1	0.955	< 0.01	< 0.005	0.07	< 0.05	2.04	2.5	0.1	< 0.001	< 0.1	0.256	6.9	5.4	12.3	< 0.2	< 1	7.9
NBL-01	N	4/14/2003	6,819.35	6.87	7.14	3360	566	168	125	7.6	338	1960	35	0.48	< 0.1	< 1	< 0.1	0.688	< 0.01	< 0.005	0.07	< 0.05	2.21	2.4	0.1	< 0.001	< 0.1	0.21	6.7	< 1	6.7	< 0.2	< 1	9.4
NBL-01	N	7/14/2003	6,819.01	6.29	7.40	3460	598	170	119	7.5	334	1880	32.2	0.45	< 0.1	< 1	< 0.1	0.538	< 0.01	< 0.005	0.06	< 0.05	2.11	2.1	0.09	< 0.001	< 0.1	0.186	7	4	11	< 0.2	< 1	5
NBL-01	N	10/13/2003	6,818.89	6.37	7.21	3480	567	170	128	6.7	332	1940	27.7	0.42	< 0.1	< 1	0.3	1.01	< 0.01	< 0.005	0.06	< 0.05	2.13	2.1	0.09	< 0.001	< 0.1	0.209	6.9	3.1	10	< 0.2	< 1	6.5
NBL-01	N	1/13/2004	6,818.51	6.50	7.30	3610	665	201	118	8.6	333	2200	38.8	0.47	< 0.10	< 1.0	< 0.1	0.523 D	< 0.01	< 0.005	0.06	< 0.05	2.32	2	< 0.05	< 0.001	< 0.1	0.178 D	6.8	< 1.0	6.8	< 0.2	< 1.0	7.5
NBL-01	N	4/12/2004	6,818.46	6.34	6.70	3690	658	203	122	8	308	2340	36.5	0.51	< 0.1	< 1	< 0.1	0.807 D	< 0.01	< 0.005	0.06	< 0.05	2.39	2	0.1	< 0.001	< 0.1	0.157 D	6.4	4.5	10.9	< 0.2	< 1	7.8
NBL-01	N	7/19/2004	6,818.09	6.45	6.37	3900	702 D	224 D	141	7	267	2380 D	35	0.47	< 0.10	< 1.0	< 0.1	0.940 D	< 0.01	< 0.005	0.08	< 0.05	2.92	1.6	0.1	< 0.001	< 0.1	0.122	7.2	5.9	13.1	< 0.2	< 1.0	7.6
NBL-01	N	10/11/2004	6,817.97	6.47	6.85	4000	616 D	234 D	141	7.1	242	2340 D	36	0.38	< 0.10	< 1.0	< 0.1	0.889 D	< 0.01	< 0.005	0.09	< 0.05	3.41	1.4	0.15	< 0.001	< 0.1	0.0906	8	4.8	12.8	< 0.2	< 1.0	9.4
NBL-01	N	1/10/2005	6,817.55	6.27	6.75	4110	650 D	262 D	128	7.2	218	2500 D	36	0.37	< 0.1	< 1.0	< 0.1	2.3 D	< 0.01	< 0.005	0.12	< 0.05	3.73	1.2	0.17	< 0.001	< 0.1	0.0696	6.3	3.3	9.6	< 0.2	< 1.0	5.7
NBL-01	N	4/12/2005	6,816.96	6.31	6.55	3980	652	294	141	7.4	169	2740	36	0.82	< 0.1	< 1.0	< 0.1	0.63	< 0.01	< 0.005	0.16	< 0.05	4.82	1.2	0.21	< 0.001	< 0.1	0.0423	8.3	3.5	11.8	< 0.2	< 1.0	8.1
NBL-01	N	7/18/2005	6,816.06	5.88	6.70	4170	628 D	301 D	138	7.1	129	2630 D	35	0.54	< 0.1	< 1.0	< 0.1	0.82 D	< 0.01	< 0.005	0.22	< 0.05	5.06	0.9	0.28	< 0.001	< 0.1	0.0275	8.6	4.6	13.2	< 0.2	< 1.0	9.2
NBL-01	N	10/10/2005	6,814.93	6.26	6.69	4090	613 D	319 D	133	7.3	122	2640 D	34	0.52	< 0.1	< 1.0	< 0.1	0.06	< 0.01	< 0.005	0.28	< 0.05	5.37	1	0.34	< 0.001	< 0.1	0.0202	9.2	4.7	13.9	< 0.2	< 1.0	10.5
NBL-01	N	1/16/2006	6,813.81	6.47	7.52	3970	533 D	271 D	121	7.6	122	2350 D	34	0.76	< 0.1	< 1.0	< 0.1	0.37 D	< 0.01	< 0.005	0.26	< 0.05	4.91	0.8	0.36	< 0.001	< 0.1	0.0187	8	8.1	16.1	< 0.2	< 1.0	9.3
NBL-01	N	4/10/2006	6,813.01	6.10	6.38	4050	639 D	316 D	122	8.8	119	2780 D	43	0.78	3.9	< 1.0	< 0.1	0.47 D	< 0.01	< 0.005	0.3	< 0.05	5.5	0.6	0.39	< 0.001	< 0.1	0.0101	9.3	8.6	17.9	< 0.2	< 1.0	13
NBL-01	N	7/24/2006	6,812.34	6.06	6.40	3980	622 D	309 D	139	9.5	117	2760 D	44	1.35	< 0.1	< 1.0	< 0.1	0.18 D	< 0.01	< 0.005	0.24	< 0.05	5.98	1	0.35	< 0.001	< 0.1	0.0214	8.6	7.3	15.9	< 0.2	< 1.0	9.6
NBL-01	N	10/9/2006	6,811.92	6.21	6.56	4050	629 D	316 D	138	11.4	181	2680 D	43	3.04	0.1	< 0.5	< 0.1	0.72 D	< 0.01	< 0.005	0.21	< 0.05	6.64	2.3	0.3	< 0.001	< 0.1	0.0427	9.7	8.1	17.8	< 0.2	< 1	7.5
NBL-01	N	1/16/2007	6,811.24	6.36	6.90	4390	615 D	304 D	139	13.3	217	2690 D	53	5.3 D	0.2	<0.5	0.1	0.51 D	<0.01	<0.005	0.29	<0.05	7.63	5	0.3	<0.001	<0.1	0.0784	10.8	4.8	15.6	<0.2	<1	12.2
NBL-01	N	4/17/2007	6,810.72	6.18	6.60	4250	619 D	313 D	133	14.1	222	2800 D	56	9.3 D	0.3	<0.5	<0.1	0.4 D	<0.01	<0.005	0.26	<0.05	8.09	3.1	0.29	<0.001	<0.1	0.0836	10.3	10.4	20.7	<0.2	<1	10.1
NBL-01	N	7/17/2007	6,810.19	6.40	6.93	4140	632 D	289 D	148	15.4	207	2780 D	54	8.8 D	0.6	<0.5	0.3	2.5 D	<0.01	<0.005	0.32	<0.05	7.49	2.6	0.32	<0.001	<0.1	0.111	11.3	10.4	21.7	<0.2	<1	14.2
NBL-01	N	10/9/2007	6,809.65	6.20	6.53	4290	623 D	280 D	142	13.6	220	2660 D	50	7.1 D	<0.1	<0.5	0.6	0.61 D	<0.01	<0.005	0.25	<0.05	6.97	1.4	0.26	<0.001	<0.1	0.0886	10.4	10.4	20.8	<0.2	<1	12.4
NBL-01	N	1/22/2008	6,809.00	5.88	5.92	4070	568 D	252 D	121	15.7	113	2630 D	57 D	8.43	0.4	< 0.5	2.8	0.969 D	< 0.01	< 0.005	0.25	< 0.05	7.14	1.9	0.32	0.01	< 0.1	0.138	16.1	10.8	26.9	< 0.2	< 1	16.5
NBL-01	N	4/15/2008	6,808.74	5.83	4.85	4030	617	270	141 D	13.6	8	2760 D	48	3.88	< 0.1	< 0.50	2.5	0.18	< 0.01	< 0.005	0.15	< 0.05	6.45	1	0.21	< 0.001	0.1	0.134	7.9	12.9	20.8	0.1 U	<5 U	10
NBL-01	N	7/15/2008	6,808.14	6.33	6.66	4040	543	245	135 D	12	246	2490 D	50	4.25	< 0.1	< 0.5	0.1	0.052	< 0.01	< 0.005	0.08	< 0.05	6.37	1	0.12	< 0.001	< 0.1	0.126	8.8	11	19.8	0.1 U	1.8 U	10.4
NBL-01	N	10/14/2008	6,806.89	6.31	6.49	4010	569	255	138 D	13	253	2640 D	51	4.5 D	< 0.1	< 0.5	0.7	0.056	< 0.01	< 0.005	0.01	< 0.05	2	0.8	< 0.05	< 0.001	< 0.1	0.27	8.3	7.3	15.6	0.2	0.6 U	12.1
NBL-01	N	1/20/2009	6,809.46	6.24	7.38	4060	591	263	150	12	266	2290 D	35	1.99	<0.1	<0.5	0.2	0.081	<0.01	<0.005	0.11	<0.05	5.25	0.7	0.15	<0.001	<0.1	0.144	9.5	14	23.5	0.5	0.4 U	8.8
NBL-01	N	4/14/2009	6,809.46	6.8	6.95	3910	553 D	246 D	138 D	11	260	2420 D	78	5.93	<0.1	<0.50	<0.8	0.037	<0.01	<0.005	0.11	<0.05	5.83	0.6	0.15	<0.001	<0.1	0.12	8.9	11	19.9	0.03 U	0.1 U	13.4
NBL-01	N	7/14/2009	6,808.18	7.16	7.49	4220	613	253	140	13	172	2510 D	54	4.43	<0.1	<0.50	1.5 D	<0.001	<0.01	<0.005	0.34	<0.05	7.58	0.5	0.34	<0.001	<0.1	0.0944	10	12	22	0.9	1.8 U	14.5

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
NBL-01	N	10/13/2009	6,807.65	5.65	6.26	4330 H	618	274	142	13	65	2950 D	49	6.7 D	<0.1	<0.50	0.5	<0.001	<0.01	<0.005	0.41	<0.05	7.92	1	0.41	<0.001	<0.1	0.0708	15	16	31	0.2 U	0.8 U	25.1
NBL-01	N	1/12/2010	6,807.41	6.31	6.27	4320 D	644 D	272	142 D	15	33	3080 D	44	12.6 D	0.13	<0.50	7	0.003 H	<0.01	<0.005	0.14	<0.05	1.59	1	0.14	0.002	<0.1	0.0213	14	21	35	0.5	1.7 U	17
NBL-01	N	4/13/2010	6,807.11	5.4	4.86	4590 D	574	254	144	13	<5	3100 D	44	7.1 D	0.2	<0.50	28.5	0.151	0.02	<0.005	0.76	<0.05	7.95	2.2	0.75	<0.001	<0.1	0.303	16	15	31	3.7	6.6	25.5
NBL-01	N	7/20/2010	6,806.72	4.46	3.18	4470 D	579	274	133	11	<5	3080 D	37 D	4.9 D	<0.1	<0.50	12.1	0.296	0.01	<0.005	0.76	<0.05	7.32	3.1	0.74	<0.001	<0.1	0.116	16	10	26	5.7	4.8	22.7
NBL-01	N	10/12/2010	6,806.47	2.97	3.14	4250 D	572	254	143	11	<5	2980 D	34 D	5.1 D	<0.1	<0.50	27.8	0.149 D	0.02	<0.005	0.37	<0.05	5.88	3.8	0.44	<0.001	<0.1	0.225	8.8	10	18.8	20.4	13.3	51.6
NBL-01	N	1/11/2011	6,806.11	5.71	4.81	3790	568	258	127	11	<5	2730 D	36 D	4.8 D	<0.1	3.44	13	0.10 D	<0.01	<0.005	0.39	<0.05	6.18	1.7	0.41	<0.001	<0.1	0.168	13	13	26	1.9	1.7	14
NBL-01	Dup	1/11/2011	no data	5.81	7.04	4170 D	576	262	128	10	97	2850 D	37 D	3.8	<0.1	<0.50	7.1	0.19 D	<0.01	<0.005	0.46	<0.05	6.51	1	0.47	<0.001	<0.1	0.0952	14	13	27	1.3	1 U	40.6
NBL-01	N	4/11/2011	6,805.76	5.71	6.07	4790 D	604	283	143	12	69	3000 DH	34 D	3.84	<0.1	<0.50	2.3	0.211 D	<0.01	<0.005	0.52	<0.05	6.63	0.5	0.54	<0.001	<0.1	0.0465	13	16	29	1.5 U	2	14.2
NBL-01	Dup	4/12/2011	no data	5.68	3.82	4220 D	594	278	141	12	<5	3060 D	34 D	4.03	<0.1	<0.50	4.4	0.194 D	<0.01	<0.005	0.57	<0.05	6.36	0.5	0.56	<0.001	<0.1	0.101	14	15	29	0.2 U	2.4	15.9
NBL-01	N	7/19/2011	6,805.43	5.47	3.33	4180 D	585	297	136	11	<5	3090 D	32 D	3.6 D	<0.5	<0.50	4.6	0.122 D	<0.01	<0.005	0.64	<0.05	6.31	0.2	0.73	<0.001	<0.1	0.0568	16	15	31	0.3 U	<0.3 U	16.5
NBL-01	N	10/11/2011	6,805.16	2.88	3.03	4170 D	585	316	138	11	<5	3340 D	32 D	3.1 D	<0.5	<0.50	5.9	<0.001	0.01	<0.005	0.72	0.05	6.96	<0.1	0.85	<0.001	<0.1	0.0379	15	17	32	0.5	1.7	14
NBL-01	N	1/10/2012	6,804.81	2.91	2.93 H	4320 D	586	319	130	11	<5	3350 D	33 D	2.8 D	<0.5	<0.50	5.9	0.028	0.03	<0.005	0.91	<0.05	7.47	<0.1	0.97	<0.001	<0.1	0.0568	17	17	51	3	1.6	20.8
NBL-01	N	4/10/2012	6,804.35	2.81	2.80 H	5020 D	504	365	130	12	<5	3500 D	30 D	2.16	<0.5	<0.50	13.3	0.03 D	0.03	<0.005	0.79	0.11	6.28	0.5	1	<0.001	<0.1	0.0717	23	21	65	4.6	9.8	22.7
NBL-01	N	7/17/2012	6,803.72	3.04	2.76 H	5660	526	376	142	14	<5	4150 D	31 D	1.3 D	<1	<0.50	30.1	0.014	0.034	<0.005	1	0.092	8.08	1.3	1.26	0.002	<0.1	0.134	18	16	50	7	6.5	34.5
NBL-01	N	10/16/2012	6,803.16	2.73	2.73 H	5530	531	368	138 D	13	<5	4260 D	30 D	0.7 D	<1	<0.50	43.4	0.032	0.039	<0.005	0.94	0.074	6.61	<0.1	1.23	<0.001	<0.1	0.189	6	5.5	11.5	4.9	3.4	5.1
NBL-01	N	1/14/2013	6,802.49	2.65	2.61 H	5940	492	372	139 D	10	<5	4250 D	29 D	0.54	<0.1	<0.50	76.7	<0.001	0.058	<0.005	1.43	0.046	8.73	0.1	1.7	<0.001	<0.1	0.458	4.3	0.53 U	4.3	8.5	2	3.2
NBL-02	N	1/22/2008	6,820.46	6.69	6.84	3410	649 D	156	133	8.1	321	2100 D	42	0.07	14.5	<0.5	<0.1	<0.001	<0.01	<0.005	0.02	<0.05	1.02	0.4	<0.05	<0.001	<0.1	0.361	7.6	26.1	33.7	<0.2	<1	11.7
NBL-02	N	4/15/2008	6,820.31	6.51	6.72	3380	no data	no data	no data	no data	306	no data	35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/15/2008	6,819.56	6.33	6.62	3470	no data	no data	no data	no data	323	no data	35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/14/2008	6,819.03	6.54	6.74	3500	647	180	154 D	7	320	2320 D	39	<0.1	19.9	<0.5	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.29	0.3	0.06	<0.001	<0.1	0.296	7.4	9.1	16.5	<0.4 U	<2 U	9.6
NBL-02	N	1/20/2009	6,818.51	6.55	6.97	3660	no data	no data	no data	no data	331	no data	21	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/14/2009	6,818.31	6.43	6.51	3630	no data	no data	no data	no data	336	no data	35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/14/2009	6,817.66	7.91	8.07	3480 H	no data	no data	no data	no data	325	no data	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/13/2009	6,817.26	6.41	7.19	3550 H	620	183	144	7	345	2100 D	49	<0.05	19.4	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.38	0.3	0.05	<0.001	<0.1	0.206	6.4	11	17.4	<0.02 U	0.5 U	7.2
NBL-02	N	1/12/2010	6,817.21	6.39	6.72	2990	no data	no data	no data	no data	325	no data	72	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/13/2010	6,816.96	6.67	6.73	3600	no data	no data	no data	no data	385	no data	43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/20/2010	6,816.36	6.45	6.84	3580	no data	no data	no data	no data	405	no data	46 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/12/2010	6,816.06	6.59	7.31	3640	610	184	155	7	411	2140 D	46 D	<0.05	17 D	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.34	0.2	<0.05	<0.001	<0.1	0.18	4.8	7.7	12.5	0.03 U	<0.8 U	7.2
NBL-02	N	1/11/2011	no data	6.49	7.4	3450	no data	no data	no data	no data	407	no data	50 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/12/2011	6,815.21	6.68	7	3520	no data	no data	no data	no data	419	no data	51 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/19/2011	6,814.61	6.51	7.69	3500	no data	no data	no data	no data	407	no data	51 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/10/2011	6,814.36	6.8	7.56	3470	609	181	154	8	386	2160 D	53 D	<0.2	12 D	<0.50	<0.1	0.004	<0.01	<0.005	0.04	<0.05	1.5	0.1	<0.05	<0.001	<0.1	0.167	5.6	8.2	13.8	0.09 U	<0.6 U	5.5
NBL-02	N	1/10/2012	6,813.91	6.76	7.44 H	3580	no data	no data	no data	no data	391	no data	52 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/10/2012	6,813.31	6.67	6.71 H	3610	no data	no data	no data	no data	381	no data	49 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/17/2012	6,812.86	6.54	6.90 H	3610	no data	no data	no data	no data	389	no data	50 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/16/2012	6,812.46	6.75	6.71 H	3580	654	190	157	8	399	2170 D	51 D	<0.05	9 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.03	<0.001	1.66	0.2	<0.05	<0.001	<0.1	0.195	6.2	12	18.2	0.0008 U	0.3 U	5.7
NBL-02	N	1/16/2013	6,811.69	6.84	6.60 H	3560	no data	no data	no data	no data	400	no data	51 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/9/2013	6,811.94	6.62	6.60 H	3580	no data	no data	no data	no data	388	no data	53 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/16/2013	6,811.06	6.65	7.03 H	3730	no data	no data	no data	no data	409	no data	51 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/8/2013	6,810.78	7.26	6.90 H	3640	618	192	156	8	405	2130 D	52 D	<0.05	6.9 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.03	<0.001	1.72	0.1	<0.05	<0.001	<0.1	0.17	8.1	8	16.1	0.1	-0.008 U	5.8
NBL-02	N	1/14/2014	6,810.02	6.73	6.51	3540	no data	no data	no data	no data	398	no data	51	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/8/2014	6,809.81	6.75	6.62 H	3560	no data	no data	no data	no data	396	no data	50	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/15/2014	6,809.30	6.73	6.66 H	3470	no data	no data	no data	no data	381	no data	48	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/14/2014	6,808.76	6.62	6.53 H	3520	592	169	136	7	368	2210 D	44 D	<0.05	0.3	<0.50	<0.1	<0.001	<0.001	<0.005	0.03	0.003	2.11	<0.1	<0.05	<0.001	<0.1	0.111	4.9	15	19.9	0.07 U	-0.05 U	5.1
NBL-02	N	1/13/2015	6,808.53	6.67	6.60 H	3530	no data	no data	no data	no data	345	no data	40	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/14/2015	6,807.90	no data	6.49 H	3490	no data	no data	no data	no data	337	no data	41	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/14/2015	6,807.53	6.69	7.26 H	3410	no data	no data	no data	no data	388	no data	37	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/13/2015	6,806.95	6.39	6.63 H	3460	600	165	139	7	358	2180 D	40	0.1	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	0.02	<0.001	2.11	<0.1	<0.05	<0.001	<0.1	0.0809	5.3	7.8	13.1	0.07 U	1.3 U	8.1
NBL-02	N	1/12/2016	6,806.28	6.61	6.53 H	3430	no data	no data	no data	no data	375	no data	43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/12/2016	6,806.04	6.88	6.85 H	3460	no data	no data	no data	no data	350	no data	36	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/19/2016	6,805.23	6.90	6.86 H	3450 D	no data	no data	no data	no data	363	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/11/2016	6,804.74	6.57	6.66 H	3420	591	181	143	7	332	2210 D	41	0.06	<0.1	<0.50	0.1	<0.001	<0.001	<0.005	0.02	<0.001	2.14	<0.1	<0.05	<0.001	<0.1	0.129	4.6	15	19.6	0.2 U	0.5 U	9
NBL-02	N	1/18/2017	6,804.12	6.66	6.51 H	3530 D	no data	no data	no data	no data	336	no data	42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/11/2017	6,803.51	6.37	6.59 H	3560 D	no data	no data	no data	no data	335	no data	41	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/18/2017	6,803.23	6.55	6.57 H	3470 D	no data	no data	no data	no data	309	no data	43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/10/2017	6,802.65	6.44	6.76 H	3510 D	616	176	151 D	7	344	2270 D	45	<0.05	0.05	<0.50	0.1	<0.001	<0.001	<0.005	0.03	0.001	1.89	0.1	<0.05	<0.001	<0.1	0.235	4.9	11.1	16	0.2 U	1.7	5.6
NBL-02	N	1/16/2018	6,802.38	6.68	7.02 H	3610 D	no data	no data	no data	no data	313	no data	42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/10/2018	6,801.88	6.60	6.68 H	3560 D	no data	no data	no data	no data	321	no data	43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/17/2018	6,801.79	7.02	7.71 H	3580 D	no data	no data	no data	no data	325	no data	40	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/9/2018	6,801.82	6.59	6.73 H	3600 D	624	170	151 D	7	322	2190 D	39	<0.05	0.1	<0.50	<0.03	<0.001	<0.001	<0.001	0.024	<0.001	1.45 D	0.13	0.036	<0.001	<0.01	0.26	5.6	7.5	13.1	0.09 U	0.3 U	6.4

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
NBL-02	N	1/15/2019	6,801.28	7.04	7.20	3580	no data	no data	no data	no data	316	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	4/17/2019	6,801.21	6.76	7.03 H	2630 D	no data	no data	no data	no data	317	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	7/30/2019	6,800.83	6.88	7.38 H	3630 D	no data	no data	no data	no data	316	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NBL-02	N	10/3/2019	6,800.65	6.65	6.75 H	3630 DH	596	160	143	8	320	2220 D	39	<0.05	0.13	<0.50	<0.03	<0.001	<0.001	<0.001	0.02	<0.001	1.5 L	0.109	0.043	<0.001	<0.01	0.252	5.9	7.6	13.5	0.1	0.3 U	8.6
NW-1	N	7/14/2009	6,800.55	6.25	6.79	4840 H	no data	no data	no data	no data	115	no data	23	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/13/2009	6,798.30	7.01	6.76 H	4780 H	no data	no data	no data	no data	136	no data	25	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/13/2010	6,798.86	6.68	6.93	4510 D	no data	no data	no data	no data	122	no data	24	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/14/2010	6,800.85	5.72	6.18	4480 D	no data	no data	no data	no data	132	no data	24	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/21/2010	6,798.11	6.12	6.36	4410 D	no data	no data	no data	no data	140	no data	24 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/13/2010	6,797.11	6.17	7.42	4350 D	no data	no data	no data	no data	143	no data	23 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/12/2011	6,797.36	6.49	7.26	4460 D	no data	no data	no data	no data	141	no data	26 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/13/2011	6,796.46	6.36	6.6	4600 D	no data	no data	no data	no data	153	no data	26 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/20/2011	6,798.11	6.64	6.67	4630 D	no data	no data	no data	no data	128	no data	25 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/11/2011	6,801.36	6.6	6.99	4090	no data	no data	no data	no data	246	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/11/2012	6,796.71	6.61	7.29 H	4600 D	no data	no data	no data	no data	124	no data	24 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/10/2012	6,796.51	6.54	6.73 H	4680 D	no data	no data	no data	no data	125	no data	25 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/17/2012	6,800.11	6.61	6.77 H	4560	no data	no data	no data	no data	175	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/16/2012	6,799.11	7.07	7.20 H	4190	no data	no data	no data	no data	242	no data	26 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/15/2013	6,809.35	7.03	6.80 H	4200	no data	no data	no data	no data	244	no data	21 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/9/2013	6,798.70	7.6	6.77 H	4240	no data	no data	no data	no data	281	no data	19 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/16/2013	6,798.72	7.46	6.86 H	4300	no data	no data	no data	no data	297	no data	45 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/15/2013	6,798.82	7.58	6.87 H	4240	no data	no data	no data	no data	345	no data	18 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/14/2014	6,798.93	6.89	6.87	4210	no data	no data	no data	no data	369	no data	20	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/9/2014	6,798.49	6.80	6.90 H	4080	no data	no data	no data	no data	415	no data	20 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/15/2014	6,798.73	7.15	6.99 H	3950	no data	no data	no data	no data	441	no data	21	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/14/2014	6,798.51	6.77	7.06 H	3910	no data	no data	no data	no data	495	no data	18 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/13/2015	6,798.51	7.09	6.98 H	3830	no data	no data	no data	no data	493	no data	18 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/14/2015	6,798.51	6.94	6.84 H	3940	no data	no data	no data	no data	477	no data	20	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/15/2015	6,798.50	7.19	7.08 H	3830	no data	no data	no data	no data	520	no data	17	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/13/2016	6,798.56	6.53	7.09 H	3640	no data	no data	no data	no data	472	no data	22	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/13/2016	6,798.48	7.46	7.04 H	3870	no data	no data	no data	no data	486	no data	16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/19/2016	6,798.48	7.50	7.13 H	3740 D	no data	no data	no data	no data	482	no data	16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/11/2016	6,798.38	7.36	7.26 H	3650	no data	no data	no data	no data	469	no data	16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/17/2017	6,798.33	7.06	7.08 H	3720 D	no data	no data	no data	no data	468	no data	17	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/12/2017	6,798.18	7.12	7.06 H	3710 D	no data	no data	no data	no data	471	no data	18 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/19/2017	6,797.62	7.10	7.13 H	3700 D	no data	no data	no data	no data	409	no data	16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/11/2017	6,797.23	7.05	7.15 H	3710 D	no data	no data	no data	no data	428	no data	17	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	1/17/2018	6,797.05	6.79	7.10 H	3690 D	no data	no data	no data	no data	356	no data	13	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	4/11/2018	6,796.85	6.99	7.28 H	3820 D	no data	no data	no data	no data	370	no data	16	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	7/18/2018	6,796.95	7.22	7.30 H	3670 D	no data	no data	no data	no data	323	no data	14	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-1	N	10/10/2018	6,796.99	7.23	7.57 H	3780 D	no data	no data	no data	no data	367	no data	15	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/14/2009	6,805.39	6.15	6.8	4760 H	no data	no data	no data	no data	329	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/13/2009	6,804.01	6.73	7.09 H	3890 H	no data	no data	no data	no data	355	no data	41	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/13/2010	6,804.66	6.26	6.56	3620	no data	no data	no data	no data	439	no data	47	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/14/2010	6,804.21	5.96	6.52	3600	no data	no data	no data	no data	450	no data	42	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/21/2010	6,803.55	6.46	6.61	3720	no data	no data	no data	no data	416	no data	44 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/13/2010	6,801.85	6.5	7.56	3690	no data	no data	no data	no data	449	no data	42 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/12/2011	6,802.60	6.65	7.63	3580	no data	no data	no data	no data	386	no data	46 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/13/2011	6,800.67	6.52	6.59	3770	no data	no data	no data	no data	388	no data	43 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/20/2011	6,800.90	6.84	7.53	3660	no data	no data	no data	no data	378	no data	42 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/11/2011	6,801.20	6.53	7.54	3690	no data	no data	no data	no data	337	no data	43 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/11/2012	6,801.30	6.55	7.31 H	3900	no data	no data	no data	no data	323	no data	40 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/10/2012	6,801.15	6.36	6.52 H	4000	no data	no data	no data	no data	331	no data	40 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/17/2012	6,797.71	6.5	6.50 H	4040	no data	no data	no data	no data	220	no data	39 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/16/2012	6,797.45	6.35	6.25 H	4100	no data	no data	no data	no data	243	no data	41 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/15/2013	6,796.07	6.67	6.34 H	4080	no data	no data	no data	no data	297	no data	38 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/9/2013	6,795.57	6.52	6.44 H	4160	no data	no data	no data	no data	276	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/16/2013	6,794.60	no data	6.57 H	4260	no data	no data	no data	no data	292	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/15/2013	6,797.98	6.86	6.50 H	4330	no data	no data	no data	no data	281	no data	35 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/14/2014	6,796.56	6.48	6.34	4570	no data	no data	no data	no data	239	no data	36	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
NW-2	N	4/9/2014	6,793.51	5.75	6.37 H	4520	no data	no data	no data	no data	210	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/15/2014	6,793.86	6.33	6.41 H	4490	no data	no data	no data	no data	228	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/14/2014	6,795.70	6.40	6.28 H	4670	no data	no data	no data	no data	203	no data	35 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/13/2015	6,792.30	6.48	6.39 H	4750	no data	no data	no data	no data	221	no data	33 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/14/2015	6,792.33	6.27	6.21 H	4840	no data	no data	no data	no data	173	no data	33	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/15/2015	6,791.68	6.19	6.41 H	4810	no data	no data	no data	no data	199	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/14/2015	6,791.18	6.34	6.18 H	4920	no data	no data	no data	no data	164	no data	34 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/13/2016	6,791.47	6.41	6.24 H	4950	no data	no data	no data	no data	124	no data	34 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/13/2016	6,791.39	6.14	6.20 H	5020	no data	no data	no data	no data	137	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/19/2016	6,791.28	6.26	6.21 H	5070 D	no data	no data	no data	no data	144	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/11/2016	6,791.26	6.20	6.17 H	4960	no data	no data	no data	no data	122	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/17/2017	6,790.67	6.34	6.01 H	4940 D	no data	no data	no data	no data	106	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/12/2017	6,790.64	6.10	6.02 H	4840 D	no data	no data	no data	no data	105	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/19/2017	6,790.52	6.03	6.16 H	4950 D	no data	no data	no data	no data	132	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/11/2017	6,790.12	6.14	6.18 H	4850 D	no data	no data	no data	no data	143	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/17/2018	6,790.04	5.89	6.06 H	4950 D	no data	no data	no data	no data	116	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/11/2018	6,790.15	6.02	5.96 H	4970 D	no data	no data	no data	no data	96	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	7/18/2018	6,790.14	5.83	5.82 H	4950 D	no data	no data	no data	no data	75	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/10/2018	6,789.90	6.02	6.09 H	5130 D	no data	no data	no data	no data	115	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	1/16/2019	6,789.89	5.88	5.85 H	5130 D	no data	no data	no data	no data	67	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	4/17/2019	-	5.94	5.81 H	5110 D	no data	no data	no data	no data	60	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	8/2/2019	6,788.82	5.24	5.41 H	5190 D	no data	no data	no data	no data	14	no data	25 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-2	N	10/10/2019	6,798.86	4.60	4.56 H	4930 DH	no data	no data	no data	no data	<5	no data	26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	7/14/2009	6,807.82	6.4	6.86	3590 H	no data	no data	no data	no data	486	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	10/13/2009	6,807.24	6.91	7.28 H	3470 H	no data	no data	no data	no data	501	no data	44	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	1/12/2010	6,807.02	6.33	6.73	3530	no data	no data	no data	no data	552	no data	46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	4/14/2010	6,806.57	6.22	6.75	3730	no data	no data	no data	no data	646	no data	51	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	7/21/2010	6,806.19	6.69	6.8	3810	no data	no data	no data	no data	630	no data	53 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	10/13/2010	6,805.75	6.49	7.42	3830	no data	no data	no data	no data	577	no data	52 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	1/12/2011	6,804.94	6.83	7.6	3790	no data	no data	no data	no data	534	no data	53 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	4/13/2011	6,805.14	6.85	6.94	3850	no data	no data	no data	no data	490	no data	50 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	7/20/2011	6,804.79	6.5	7.28	3760	no data	no data	no data	no data	426	no data	50 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	10/11/2011	6,804.19	6.98	7.31	3750	no data	no data	no data	no data	375	no data	47 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	1/11/2012	6,804.14	6.77	7.60 H	3860	no data	no data	no data	no data	379	no data	42 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	4/10/2012	6,803.53	6.54	6.82 H	3880	no data	no data	no data	no data	390	no data	40 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	7/17/2012	6,802.84	6.66	6.79 H	3760	no data	no data	no data	no data	361	no data	41 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	10/16/2012	6,802.44	6.78	6.74 H	3960	no data	no data	no data	no data	402	no data	41 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	1/15/2013	6,801.55	6.93	6.68 H	3760	no data	no data	no data	no data	395	no data	38 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	4/9/2013	6,801.31	6.81	6.75 H	3760	no data	no data	no data	no data	433	no data	40 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	7/16/2013	6,800.35	6.53	6.67 H	3640	no data	no data	no data	no data	365	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	10/15/2013	6,800.36	6.79	6.65 H	3710	no data	no data	no data	no data	363	no data	35 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	1/14/2014	6,799.57	6.79	6.66	3970	no data	no data	no data	no data	413	no data	37	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	4/9/2014	6,798.93	6.85	6.77 H	4040	no data	no data	no data	no data	464	no data	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	7/15/2014	6,798.40	6.66	6.83 H	3920	no data	no data	no data	no data	468	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	10/14/2014	6,797.92	6.75	6.78 H	4070	no data	no data	no data	no data	441	no data	38 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	1/13/2015	6,797.31	6.92	6.79 H	4150	no data	no data	no data	no data	441	no data	37 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	4/14/2015	6,796.82	6.80	6.61 H	4300	no data	no data	no data	no data	417	no data	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	7/15/2015	6,796.24	6.74	6.85 H	4280	no data	no data	no data	no data	486	no data	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	10/14/2015	6,795.73	7.06	6.78 H	4250	no data	no data	no data	no data	456	no data	41 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	1/13/2016	6,795.29	7.22	6.92 H	4540	no data	no data	no data	no data	499	no data	43 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	4/13/2016	6,794.82	7.40	6.78 H	4710	no data	no data	no data	no data	412	no data	34 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	7/19/2016	6,794.37	7.40	6.82 H	4620 D	no data	no data	no data	no data	420	no data	35 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-3	N	10/11/2016	6,793.93	7.24	6.76 H	4480	601	351	163	9	402	2920 D	35 D	0.51	<0.1	<0.50	0.1	0.005	<0.001	<0.005	0.03	<0.001	3.26	0.5	<0.05	<0.001	<0.1	0.346	15	8.7	23.7	0.01 U	1.6	18.5
NW-3	N	1/17/2017	6,793.45	7.40	6.96 H	4360 D	543	329	162	8	382	2730 D	35	0.4 D	0.1	<0.50	<0.1	0.180 D	<0.001	<0.005	0.01	<0.001	1.04	0.9	<0.05	<0.001	<0.1	0.234 D	23	8.5	31.5	0.04 U	1.8	31.5
NW-3	N	4/11/2017	6,793.06	6.97	6.86 H	4060 D	545	324	170	8	390	2660 D	36	0.32	<0.01	<0.50	<0.1	0.014	<0.001	<0.005	<0.01	<0.001	1.2	0.8	<0.05	<0.001	<0.1	0.214	22	0.02 U	22	0.4	1.1 U	31.1
NW-3	N	7/18/2017	6,792.84	6.96	6.85 H	4100 D	526	297	167	8	350	2530 D	34 D	0.34	<0.01	<0.50	0.1	0.033	<0.001	<0.005	<0.01	<0.001	1.46	0.7	<0.05	<0.001	<0.1	0.201	29	15.4	44.4	0.08 U	1.8	27.9
NW-3	N	10/10/2017	6,792.52	7.23	6.91 H	4080 D	544	304	171 D	8	448	2700 D	39 D	0.29	0.02	<0.50	<0.1	0.212 D	<0.001	<0.005	<0.01	<0.001	1.38	0.8	<0.05	<0.001	<0.1	0.196	20	15.1	35.1	0.06 U	2.4	27.6
NW-3	N	1/16/2018	6,792.22	7.47	6.72 H	3440 D	453	257	156 D	8	303	2150 D	28	0.25	<0.1	<0.50	0.04	1.18 D	<0.001	<0.001	0.005	<0.001	0.953	0.656	<0.005	<0.001	<0.01	0.126	15.9	11.2	27.1	0.002 U	1.0 U	26.8
NW-3	N	4/10/2018	6,791.92	7.21	6.99 H	4200 D	540	300	172	8	435	2730 D	35 D	0.22	<0.01	<0.50	0.07	0.98 D	<0.001	<0.001	<0.005	<0.001	1.31	0.824	<0.005	0.001	<0.01	0.135	22.6	15.2	37.8	0.1 U	1.4	26.9
NW-3	N	7/17/2018	6,791.75	7.10	6.61 H	4100 D	546	292	162	7	361	2600 D	34	0.22	<0.01	<0.50	0.14	1.32 DH	<0.001	<0.001	<0.005	<0.001	1.85	0.684	<0.005	0.003	<0.01	0.088	30.5	25.5	56	0.07 U	1.3	24.6

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
NW-3	N	10/10/2018	6,791.57	6.96	6.96 H	4250 D	574	293	175 D	9	505	2650 D	35 D	0.37	<0.01	<0.50	0.05	6.2 D	<0.001	<0.001	<0.005	<0.001	2.46	0.636	<0.005	0.002	<0.01	0.158	20.7	9.7	30.4	0.1 U	1.2	27.6
NW-3	N	1/15/2019	6,791.38	7.32	6.94 H	3790 DH	465	256	150	8	384	2320 D	30	0.35	<0.01	<0.50	0.06	no data	<0.001	<0.001	0.005	<0.001	1.91	0.591	<0.005	no data	<0.01	0.106	23.4	10.1	33.5	-0.01 U	1.2	26.7
NW-3	N	4/15/2019	6,791.44	7.34	6.89 H	4440 D	602	291	166	8	483	2710 D	34 D	0.35	<0.01	<0.50	0.1	9.51 D	<0.001	<0.001	<0.005	<0.001	2.61 D	0.503 D	<0.005	<0.001	<0.01	0.142	20.1	10.3	30.4	-0.01 U	0.6 U	48
NW-3	N	7/23/2019	6,791.11	7.45	6.98 H	4380 D	560	307	160	8	465	2680 D	34	0.37	<0.01	<0.50	0.18	10.2 D	<0.001	<0.001	<0.005	<0.001	2.67 D	0.559	<0.005	<0.001	<0.01	0.148	23.3	7.9	31.2	0.04 U	0.3 U	26.3
NW-3	N	10/3/2019	6,791.09	7.00	6.92 H	4420 D	611	292	160	9	390	2740 D	35	0.3	<0.01	<0.50	0.27 D	10.4	<0.001	<0.001	0.012	<0.001	3.71 D	0.459	0.006	<0.001	<0.01	0.174	17.7	9.3	27	0.008 U	1.2 U	28.2
NW-4	N	7/14/2009	6,805.53	6.64	6.87	3910 H	no data	no data	no data	no data	202	no data	30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/13/2009	6,804.55	6.59	6.89 H	4680 H	no data	no data	no data	no data	226	no data	32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/13/2010	6,796.18	6.1	6.25	4440 D	no data	no data	no data	no data	174	no data	28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/14/2010	6,803.28	5.76	6.19	4320 D	no data	no data	no data	no data	185	no data	28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/21/2010	6,799.41	6.17	6.34	4440 D	no data	no data	no data	no data	183	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/13/2010	6,800.01	6.12	6.29	4240 D	no data	no data	no data	no data	175	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/12/2011	6,789.76	6.2	6.38	4280 D	no data	no data	no data	no data	163	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/13/2011	6,791.85	6.2	6.32	4510 D	no data	no data	no data	no data	152	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/20/2011	6,798.66	6.81	7.17	4420 D	no data	no data	no data	no data	148	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/11/2011	6,801.01	6.3	7.17	4470 D	no data	no data	no data	no data	150	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/11/2012	6,801.16	6.28	6.73 H	4730 D	no data	no data	no data	no data	137	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/10/2012	6,800.91	5.9	6.27 H	4860 D	no data	no data	no data	no data	146	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/17/2012	6,798.06	6.03	6.17 H	4900	no data	no data	no data	no data	101	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/16/2012	6,794.76	6.2	6.12 H	4830	no data	no data	no data	no data	112	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/15/2013	6,796.19	6.5	6.05 H	4710	no data	no data	no data	no data	100	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/9/2013	6,789.59	6.09	6.14 H	4550	no data	no data	no data	no data	89	no data	25 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/16/2013	6,795.34	6.96	6.99 H	4600	no data	no data	no data	no data	70	no data	26 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/15/2013	6,797.03	6.83	6.69 H	4430	no data	no data	no data	no data	109	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/14/2014	6,792.03	7.00	6.7	4210	no data	no data	no data	no data	90	no data	26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/15/2014	6,789.89	6.84	6.97 H	4280	no data	no data	no data	no data	104	no data	25 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/14/2014	6,790.19	6.72	6.96 H	4530	no data	no data	no data	no data	96	no data	25 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/13/2015	6,789.84	7.01	6.96 H	4490	no data	no data	no data	no data	150	no data	23 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/14/2015	6,789.89	6.42	6.92 H	4680	no data	no data	no data	no data	150	no data	23	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/15/2015	6,791.13	6.57	6.87 H	4500	no data	no data	no data	no data	154	no data	21 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/14/2015	6,789.93	6.93	6.87 H	4540	no data	no data	no data	no data	110	no data	22 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/13/2016	6,790.09	6.59	6.56 H	4620	no data	no data	no data	no data	85	no data	21 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/13/2016	6,793.06	6.67	6.71 H	4540	no data	no data	no data	no data	84	no data	19 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/19/2016	6,793.51	6.63	6.55 H	4480 D	no data	no data	no data	no data	78	no data	20 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/11/2016	6,793.40	6.80	6.75 H	4380	no data	no data	no data	no data	74	no data	21 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/17/2017	6,793.19	6.79	6.49 H	4330 D	no data	no data	no data	no data	55	no data	21 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/11/2017	6,792.20	6.72	6.37 H	4410 D	no data	no data	no data	no data	40	no data	20 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/19/2017	6,793.33	6.80	6.44 H	4380 D	no data	no data	no data	no data	40	no data	20 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/11/2017	6,793.13	6.71	6.48 H	4370 D	no data	no data	no data	no data	42	no data	23 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/17/2018	6,793.48	6.03	6.25 H	4410 D	no data	no data	no data	no data	33	no data	18 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/11/2018	6,793.57	6.42	6.20 H	4320 D	no data	no data	no data	no data	27	no data	21 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	7/18/2018	6,793.42	6.20	5.93 H	4280 D	no data	no data	no data	no data	15	no data	20 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/10/2018	6,793.23	6.31	6.05 H	4400 D	no data	no data	no data	no data	16	no data	21 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	1/16/2019	6,792.09	6.30	6.09 H	4350 D	no data	no data	no data	no data	17	no data	21 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	4/17/2019	6,792.61	6.53	6.3 H	4370 D	no data	no data	no data	no data	15	no data	20 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	8/2/2019	6,792.77	6.12	6.25 H	4380 D	no data	no data	no data	no data	18	no data	18 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-4	N	10/10/2019	6,792.81	5.96	6.13 H	4310 DH	no data	no data	no data	no data	19	no data	19	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/14/2009	6,808.35	6.3	6.76	3590 H	no data	no data	no data	no data	590	no data	53	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/13/2009	6,807.70	7.15	7.45 H	3630 H	no data	no data	no data	no data	612	no data	58	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	1/12/2010	6,807.30	6.35	6.8	3600	no data	no data	no data	no data	639	no data	55	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/14/2010	6,807.15	6.32	6.78	3530	no data	no data	no data	no data	659	no data	54	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/21/2010	6,806.36	6.71	6.86	3670	no data	no data	no data	no data	665	no data	57 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/13/2010	6,806.18	6.84	7.42	3710	no data	no data	no data	no data	667	no data	57 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	1/12/2011	6,805.96	7.1	7.52	3480	no data	no data	no data	no data	631	no data	59 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/13/2011	6,805.26	6.91	6.97	3610	no data	no data	no data	no data	529	no data	51 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/20/2011	6,805.31	6.89	7.79	3580	no data	no data	no data	no data	580	no data	56 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/11/2011	6,804.66	7	7.53	3660	no data	no data	no data	no data	545	no data	59 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	1/11/2012	6,804.66	6.94	7.61 H	3380	no data	no data	no data	no data	475	no data	47 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/10/2012	6,804.05	6.95	7.08 H	3830	no data	no data	no data	no data	511	no data	49 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/17/2012	6,803.31	6.91	7.02 H	4050	no data	no data	no data	no data	422	no data	45 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/16/2012	6,802.81	7.02	6.98 H	4060	no data	no data	no data	no data	415	no data	43 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
NW-5	N	1/15/2013	6,801.94	6.91	6.80 H	3710	no data	no data	no data	no data	374	no data	38 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/9/2013	6,801.82	6.77	6.81 H	4300	no data	no data	no data	no data	393	no data	41 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/16/2013	6,800.87	no data	6.83 H	4540	no data	no data	no data	no data	340	no data	38 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/15/2013	6,800.93	6.98	6.73 H	4540	no data	no data	no data	no data	348	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/9/2014	6,799.50	7.01	6.91 H	4730	no data	no data	no data	no data	372	no data	38 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/15/2014	6,799.08	6.76	6.89 H	4620	no data	no data	no data	no data	373	no data	39 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/14/2014	6,798.62	6.74	6.81 H	4840	no data	no data	no data	no data	316	no data	34 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	1/13/2015	6,797.87	6.69	6.66 H	5000	no data	no data	no data	no data	273	no data	35 DH	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/14/2015	6,797.33	6.44	6.49 H	5090	no data	no data	no data	no data	243	no data	35	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/15/2015	6,796.73	6.41	6.59 H	5090	no data	no data	no data	no data	243	no data	33 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/14/2015	6,796.19	6.71	6.58 H	5070	no data	no data	no data	no data	252	no data	34 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	1/13/2016	6,795.74	6.43	6.63 H	5090	no data	no data	no data	no data	244	no data	35 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/13/2016	6,794.21	6.10	6.04 H	5490	no data	no data	no data	no data	91	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/19/2016	6,794.38	6.10	5.96 H	5430 D	no data	no data	no data	no data	69	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/11/2016	6,794.48	6.08	6.09 H	5340	no data	no data	no data	no data	101	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	1/17/2017	6,793.75	6.08	5.68 H	5330 D	no data	no data	no data	no data	38	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/12/2017	6,793.32	5.66	4.36 H	5340 D	no data	no data	no data	no data	<5	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/19/2017	6,793.17	5.40	5.39 H	5750 D	no data	no data	no data	no data	<5	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/11/2017	6,792.87	5.48	3.83 H	5320 D	no data	no data	no data	no data	<5	no data	34 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	1/17/2018	6,792.51	5.14	3.86 H	5690 D	no data	no data	no data	no data	<5	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/11/2018	6,792.39	4.52	4.68 H	5480 D	no data	no data	no data	no data	<5	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/18/2018	6,792.23	4.98	3.33 H	5380 D	no data	no data	no data	no data	<5	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/10/2018	6,792.10	5.86	5.83 H	5500 D	no data	no data	no data	no data	64	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	1/5/2019	6,791.98	6.02	6.1 H	5480 D	no data	no data	no data	no data	107	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	4/17/2019	6,792.04	5.90	5.4 H	5400 D	no data	no data	no data	no data	29	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	7/30/2019	6,791.54	5.80	5.99 H	5760 D	no data	no data	no data	no data	69	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
NW-5	N	10/8/2019	6,791.59	5.04	4.3 H	5650 DH	540	557	160	12	<5	3980 D	28	0.6	<0.01	<0.5	9.4 D	0.133	0.003	<0.001	0.44 D	0.009 D	6.78 D	0.23 D	0.451	<0.001	<0.01	0.042 D	15	9.3	24.3	0.6	2.9	28.6
PB-01	N	10/18/2002	no data	5.18	no data	no data	no data	no data	no data	no data	29.2	no data	31.7	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	1/22/2008	6,811.31	6.05	6.57	4130	518 D	318 D	122	11.3	140	2570 D	40 D	4.8 D	< 0.1	< 0.5	0.9	0.05	< 0.01	< 0.005	0.26	< 0.05	5.59	0.5	0.32	< 0.001	< 0.1	0.102	15.6	12.1	27.7	< 0.2	< 1	17.5
PB-02	N	4/15/2008	6,809.26	5.86	6.22	4090	no data	no data	no data	no data	121	no data	29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	7/15/2008	6,809.46	5.94	4.41	4450	no data	no data	no data	no data	< 1	no data	26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	10/14/2008	6,808.53	5.74	6.18	4290	549	358	133 D	10	95	3140 D	26	2.4	< 0.1	< 0.5	0.4	0.003	< 0.01	< 0.005	0.3	< 0.05	5.17	0.2	0.36	< 0.001	< 0.1	0.048	12	11	23	0.3	0.3 U	16.5
PB-02	N	1/20/2009	6,810.60	5.41	5.65	3950	no data	no data	no data	no data	47	no data	32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	4/14/2009	6,809.65	5.31	5.47	4470	no data	no data	no data	no data	43	no data	29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	7/14/2009	6,809.60	5.68	5.74	4580 H	no data	no data	no data	no data	39	no data	26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	10/13/2009	6,808.70	5.55	6.33	4760 H	575 D	408	131 D	11	72	3330 D	28 H	1	<0.1	<0.50	1.9	<0.001	<0.01	<0.005	0.38	<0.05	5.49	0.5	0.49	<0.001	<0.1	0.068	14	15	29	1.5	1.6 U	19.4
PB-02	N	1/12/2010	6,804.25	5.5	5.95	4670 D	no data	no data	no data	no data	74	no data	26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	4/13/2010	6,807.35	5.42	5.7	4930 D	540	422	144	11	38	3470 DH	23	0.82	<0.1	<0.50	6.2	0.008	<0.01	<0.005	0.4	<0.05	5.69	1.3	0.49	<0.001	<0.1	0.165	13	14	27	3.7	1.3 U	16.3
PB-02	N	7/21/2010	6,803.66	5.78	5.85	4980 D	no data	no data	no data	no data	63	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	10/12/2010	6,805.91	5.29	6.75	4940 D	562	461	151	11	50	3620 D	27 D	1.01	<0.1	<0.50	4.6	0.001	<0.01	<0.005	0.49	<0.05	6.1	0.6	0.56	<0.001	<0.1	0.0811	13	18	31	1.6	0.1 U	17
PB-02	N	1/17/2011	no data	5.59	5.7	5030 D	no data	no data	no data	no data	41	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	4/13/2011	6,805.85	5.87	5.82	5280 D	no data	no data	no data	no data	65	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	7/20/2011	6,806.25	5.48	5.79	5200 D	no data	no data	no data	no data	43	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	10/11/2011	6,805.60	5.73	6.73	5200 D	551	485	151	12	46	3830 D	30 D	1.0 D	<0.5	<0.50	7.1	0.005	<0.01	<0.005	0.52	<0.05	6.3	0.5	0.66	<0.001	<0.1	0.0632	15	15	30	1.8	0.7 U	15.6
PB-02	N	1/11/2012	6,805.40	5.74	5.95 H	5280 D	no data	no data	no data	no data	55	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	4/10/2012	6,805.33	5.8	5.93 H	5320 D	no data	no data	no data	no data	76	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	7/17/2012	6,804.90	5.85	5.91 H	5260	no data	no data	no data	no data	75	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	10/16/2012	6,804.95	5.9	5.76 H	5140	555	508	150 D	13	57	3470 D	29 D	0.67	<0.2	<0.50	0.4	<0.001	<0.001	<0.005	0.49	<0.001	6.21	0.1	0.62	<0.001	<0.1	0.0212	12	20	32	0.3	0.6 U	14.2
PB-02	N	1/15/2013	6,804.07	5.84	5.75 H	4970	no data	no data	no data	no data	65	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	4/9/2013	6,804.10	5.84	5.79 H	5200	no data	no data	no data	no data	64	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-02	N	7/16/2013	6,803.73	5.71	5.77 H	5120	no data	no data	no data	no data	65	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	1/22/2008	6,812.51	6.37	7.1	3860	613 D	250 D	106	13.4	347	2370 D	64 D	9.8 D	0.7	< 0.5	0.2	0.155	< 0.01	< 0.005	0.14	< 0.05	7.67	0.5	0.17	0.001	< 0.1	0.138	13.7	15.3	29	< 0.2	< 1	13.1
PB-03	N	4/15/2008	6,812.36	6.58	7.3	3860	no data	no data	no data	no data	341	no data	56	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	7/15/2008	6,811.71	7.28	7.41	3960	no data	no data	no data	no data	286	no data	46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	10/30/2008	6,810.91	5.98	6.95	4000	654	238 D	145 D	13	203	2820 D	53	8.1	< 0.1	< 0.5	2.3	0.02	< 0.01	< 0.005	0.54	< 0.05	7.42	0.4	0.42	< 0.001	< 0.1	0.193	16	12	28	0.4	<3 U	20.5
PB-03	N	1/20/2009	6,810.53	5.41	3.6	4250	no data	no data	no data	no data	<1	no data	46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	4/14/2009	6,809.88	6.21	6.79	3940	no data	no data	no data	no data	132	no data	51	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	7/14/2009	6,809.03	6.45	7.5	3850 H	no data	no data	no data	no data	242	no data	46	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	10/13/2009	6,808.36	6.26	6.65	3910 H	588	236	133	10	32	2460 D	39 H	5.79	<0.1	<0.50	1.9	<0.001	<0.01	<0.005	0.24	<0.05	5.75	0.2	0.26	<0.001	<0.1	0.113	14	13	27	2.4	0.2 U	14
PB-03	N	1/12/2010	6,808.08	5.45	6.66	3650	no data	no data	no data	no data	58	no data	37	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data

TABLE B.1
Zone 3 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
PB-03	N	4/13/2010	6,807.78	6.38	6.78	3690	536	237	130	10	231	2520 D	39	1.82	<0.1	<0.50	0.4	0.003	<0.01	<0.005	0.14	<0.05	4.21	0.5	0.17	<0.001	<0.1	0.276	8.3	12	20.3	0.3	0.9 U	7.9
PB-03	N	7/20/2010	6,807.35	7.13	6.76	3660	no data	no data	no data	no data	294	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	10/12/2010	6,806.90	7.12	7.68	3540	546	239	134	10	272	2300 D	29 D	1.6	0.1	<0.50	0.3	<0.001	<0.01	<0.005	0.1	<0.05	3.68	0.6	0.12	<0.001	<0.1	0.338	5.9	5.8	11.7	0.07 U	0.7 U	6.8
PB-03	N	1/12/2011	no data	7.7	7.53	3500	no data	no data	no data	no data	236	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	4/13/2011	6,806.38	6.96	7.07	3600	no data	no data	no data	no data	274	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	7/19/2011	6,806.03	7.28	7.83	3530	no data	no data	no data	no data	253	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	10/11/2011	6,805.77	7.35	7.6	3490	508	232	127	10	237	2330 D	28 D	0.9 D	<0.5	<0.50	0.1	0.003	<0.01	<0.005	0.09	<0.05	4.07	0.4	0.13	<0.001	<0.1	0.192	7	4.6	11.6	0.2 U	0.06 U	7.1
PB-03	N	1/10/2012	6,805.43	6.57	7.61 H	3640	no data	no data	no data	no data	211	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	4/10/2012	6,804.98	6.38	6.64 H	3760	no data	no data	no data	no data	229	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	7/17/2012	6,804.43	6.41	7.11 H	3930	no data	no data	no data	no data	202	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	10/16/2012	6,803.95	6.38	6.89 H	4020	596	288	135	11	217	2600 D	27 D	0.9 D	<0.1	<0.50	0.2	<0.001	<0.001	<0.005	0.12	<0.001	4.19	0.4	0.17	<0.001	<0.1	0.136	7.1	9.5	16.6	0.02 U	0.6 U	7.6
PB-03	N	1/16/2013	6,803.28	6.47	7.29 H	3940	no data	no data	no data	no data	179	no data	26 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	4/9/2013	6,803.13	3.72	3.53 H	4460	no data	no data	no data	no data	<5	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	7/16/2013	6,802.53	2.97	2.98 H	4850	no data	no data	no data	no data	<5	no data	26 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	10/8/2013	6,802.25	2.82	2.76 H	5370	510	498	152	14	<5	3990 D	27 D	1.2 D	<0.5	<0.50	8.9	<0.001	0.02	<0.005	0.81	0.064	8.65	<0.1	1.13	<0.001	<0.1	0.107	9.9	6.2	16.1	0.3	0.4 U	8.5
PB-03	N	1/14/2014	6,801.49	2.83	2.78	4890	no data	no data	no data	no data	<5	no data	26	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	4/8/2014	6,801.04	2.83	2.62 H	5200	no data	no data	no data	no data	<5	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	7/15/2014	6,800.52	3.61	4.00 H	4730	no data	no data	no data	no data	<5	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	10/14/2014	6,800.02	3.96	3.92 H	4560	no data	no data	no data	no data	<5	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	1/13/2015	6,799.57	5.75	5.55 H	4320	no data	no data	no data	no data	<5	no data	25 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	4/14/2015	6,798.86	6.18	6.70 H	4410	no data	no data	no data	no data	43	no data	28	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-03	N	7/15/2015	6,798.55	6.95	6.63 H	4340	no data	no data	no data	no data	77	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	1/22/2008	6,812.50	6.41	6.63	3710	no data	no data	no data	no data	296	no data	58	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	4/15/2008	6,812.39	6.18	6.54	3550	no data	no data	no data	no data	133	no data	54	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	7/15/2008	6,811.89	6.39	7.08	3900	no data	no data	no data	no data	270	no data	43	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	1/20/2009	6,810.73	4.02	3.84	3570	no data	no data	no data	no data	<1	no data	49	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	4/14/2009	6,810.28	2.88	2.89	4680	no data	no data	no data	no data	<1	no data	30	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	7/14/2009	6,809.98	2.5	2.78	4640 H	no data	no data	no data	no data	<5	no data	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	1/12/2010	6,808.38	2.76	3.08	4250 D	no data	no data	no data	no data	<5	no data	27	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	4/13/2010	6,808.28	2.95	3	4650 D	522	310	131	9	<5	3510 D	30	2.14	<0.1	<0.50	16.9	0.022	<0.01	<0.005	0.47	<0.05	5.1	0.7	0.6	0.002	<0.1	0.209	13	7.1	20.1	24	2.4 U	33.4
PB-04	N	7/20/2010	6,807.84	2.62	2.89	5020 D	no data	no data	no data	no data	<5	no data	26 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	10/12/2010	6,803.64	2.89	2.94	4280 D	no data	no data	no data	no data	<5	no data	25 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	4/13/2011	6,806.56	2.8	2.83	5740 D	no data	no data	no data	no data	<5	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	7/19/2011	6,806.18	2.7	2.81	5270 D	no data	no data	no data	no data	<5	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	10/11/2011	6,806.04	2.56	2.79	6630 D	507	375	141	12	<5	5440 D	31 D	0.6 D	<0.5	<0.50	29.2	0.007	<0.01	<0.005	0.65	0.63	6.06	0.5	0.91	0.002	<0.1	0.239	13	9.5	22.5	25.7	12.7	31.3
PB-04	N	4/10/2012	6,805.18	2.65	2.64 H	6020 D	no data	no data	no data	no data	<5	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	7/17/2012	6,804.63	2.68	2.60 H	6570	no data	no data	no data	no data	<5	no data	29 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	10/16/2012	6,804.35	2.55	2.50 H	8300	504	457	140 D	3	<5	6400 D	30 D	0.27	<2	<0.50	132	0.011	0.033	<0.005	1.33	0.022	9.8	0.4	2	<0.001	<0.1	0.453	6.8	-0.002 U	6.8	34.5	0.8 U	3.3
PB-04	N	1/16/2013	6,803.41	2.48	2.47 H	7830	no data	no data	no data	no data	<5	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	4/10/2013	6,803.19	2.53	2.56 H	7450	no data	no data	no data	no data	<5	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	7/16/2013	6,802.90	2.54	2.62 H	7300	no data	no data	no data	no data	<5	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	10/9/2013	6,802.79	2.85	2.70 H	6950	453	470	112	<1	<5	5010 D	30 D	0.57	<0.5	<0.50	131	0.004	0.048	<0.005	1.25	0.066	11	0.1	1.85	<0.001	<0.1	0.535	8.8	0.65 U	8.8	25.9	0.2 U	1.2
PB-04	N	1/14/2014	6,802.13	2.80	2.75	6150	no data	no data	no data	no data	<5	no data	29	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	4/8/2014	6,801.71	2.98	2.85 H	5580	no data	no data	no data	no data	<5	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	7/15/2014	6,801.36	2.95	2.83 H	5660	no data	no data	no data	no data	<5	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	10/14/2014	6,800.84	2.98	no data	5440	no data	no data	no data	no data	<5	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	1/13/2015	6,800.44	2.87	2.97 H	4700	no data	no data	no data	no data	<5	no data	26 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	4/14/2015	6,799.83	2.97	2.63 H	5010	no data	no data	no data	no data	<5	no data	31	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
PB-04	N	7/14/2015	6,799.30	2.91	2.86 H	4970	no data	no data	no data	no data	<5	no data	33 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-11	N	1/23/2008	6,811.70	6.23	6.57	3640	545 D	219	107	10.5	268	2220 D	45 D	5.8 D	0.1	<0.5	<0.1	<0.001	<0.01	<0.005	0.15	<0.05	4.83	0.2	0.18	<0.001	<0.1	0.131	12.4	16.6	29	<0.2	<1	14.2
RW-11	N	10/14/2008	6,823.59	5.74	6.43	3780	541	241	132 D	10	247	2520 D	41	5.1 D	<0.1	<0.5	0.1	0.004	<0.01	<0.005	0.15	<0.05	4.93	0.3	0.17	<0.001	<0.1	0.13	18	20	38	0.1 U	<0.2 U	12.8
RW-11	N	10/13/2009	6,818.18	5.9	7.45	3800 H	547	259	130	10	238	2530 D	32	2.99	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	0.16	<0.05	4.27	0.2	0.18	<0.001	<0.1	0.134	9.3	13	22.3	<0.004 U	0.4 U	10
RW-11	N	10/12/2010	6,815.23	5.97	6.56	3970	561	278	144	10	242	2630 D	35 D	2.45	<0.1	<0.50	0.3	0.001	<0.01	<0.005	0.18	<0.05	3.93	0.8	0.2	<0.001	<0.1	0.246	10	17	27	0.4 U	0.3 U	12.4
RW-11	N	10/11/2011	6,822.68	6.41	7.34	4130 D	556	308	144	11	209	2800 D	38 D	1.8 D	<0.5	<0.50	<0.1	0.006	<0.01	<0.005	0.21	<0.05	4.68	0.1	0.24	<0.001	<0.1	0.134	9.6	13	22.6	0.03 U	0.5 U	10.1
RW-11	N	10/16/2012	6,817.53	6.25	6.22 H	4540	594	373	145 D	11	220	2880 D	38 D	1.9 D	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.25	<0.001	5.12	0.2	0.29	<0.001	<0.1	0.14	9.7	20	29.7	0.2 U	0.5 U	9.8
RW-11	N	10/15/2013	6,817.22	6.39	6.22 H	4700	556	390	139	11	192	3170 D	37 D	2.02	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.3	0.059	5.99	0.2	0.34	<0.001	<0.1	0.139	10	13	23	0.5	0.3 U	14.2
RW-11	N	10/14/2014	6,812.94	6.39	6.42 H	4860	542	419	133	11	156	3240 D	37 D	2.74	<0.1	<0.50	0.2	0.004	0.002	<0.005	0.32	0.032	6.01	0.5	0.34	<0.001	<0.1	0.142	10	33	no data	0.4 U	2.4	14.7
RW-11	N	10/14/2015	6,813.82	6.28	6.11 H	5020	531	429	134	12	150	3320 D	36 D	3.1 D	<0.1	<0.50	<0.1	<0.001	0.001	<0.005	0.32	0.002	5.94	0.2	0.34	<0.001	<0.1	0.0808	12	23	35	0.7	2.6	23.2
RW-11	N	10/11/2016	6,813.48	6.20	6.12 H	4970	522	459	129	11	130	3390 D	32 D	3.1 D	<0.1	<0.50	0.1	0.002	0.002	<0.005	0.36	0.002	5.71	0.3	0.35	<0.001	<0.1	0.0774	8.7	18	26.7	-0.04 U	0.9 U	19.2
RW-11	N	10/10/2017	6,812.98	6.49	6.48 H	5120 D	550	488	143 D	12	137	3610 D	36 D	3.4 D	0.01	<0.50	<0.1	0.001	0.001	<0.005	0.41	0.002	6.72	0.2	0.35	<0.001	<0.1	0.0734	9.7	20.6	30.3	0.1 U	2.7	12

TABLE B.1

Zone 3 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.757	0.05	0.09	NA	0.08	NA	NA	0.569	0.01	0.1	0.395	NA	NA	35.2	17	5.7	39.7
		EPA Standard	NA	NA	NA	8592	NA	NA	NA	NA	NA	5693	250	NA	190	80	5	0.757	0.004	0.09	0.391	0.08	9.1	66.1	0.569	0.05	0.1	0.395	NA	NA	35.2	17	5.7	39.7
RW-11	N	10/10/2018	6,812.71	6.03	6.27 H	5350 D	553	525	148 D	13	132	3700 D	33 D	2.9 D	<0.01	<0.50	<0.03	0.002	0.001	<0.001	0.356	<0.001	6.22	0.132	0.357	<0.001	<0.01	0.0635	8	15.4	23.4	0.02 U	1.1	11.5
RW-11	N	10/8/2019	6,812.47	6,016.00	6.18 H	5280 DH	545	522	144	12	117	3630 D	32	4.3 D	<0.01	<0.5	<0.03	0.002	<0.001	<0.001	0.353	<0.001	6.34	0.163	0.348	<0.001	<0.01	0.053	10.9	15.3	26.2	-0.01 U	0.7 U	17
RW-A	N	1/23/2008	6,802.73	6.27	6.81	3590	599 D	192	117	9.6	378	2080 D	47 D	3.88	0.2	<0.5	<0.1	0.001	<0.01	<0.005	0.09	<0.05	3.95	0.2	0.12	<0.001	<0.1	0.162	14.7	21.8	36.5	<0.2	<1	15
RW-A	N	7/15/2008	6,814.28	6.38	6.6	3660	no data	no data	no data	no data	360	no data	39	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/14/2008	6,814.63	6.37	6.61	3740	608	223	136 D	9	327	2560 D	41	3	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	0.12	<0.05	4.24	0.2	0.16	<0.001	<0.1	0.133	11	14	25	0 U	1.1 U	17.7
RW-A	N	1/20/2009	6,818.13	6.25	7.12	3530	no data	no data	no data	no data	329	no data	23	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/14/2009	6,817.83	6.36	6.62	3820	no data	no data	no data	no data	339	no data	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/14/2009	6,816.68	6.3	6.74	3880 H	no data	no data	no data	no data	303	no data	37	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/13/2009	6,804.13	5.8	6.99	3950 H	607	254	135	10	281	2640 D	46	3.06	0.2	<0.50	<0.1	<0.001	<0.01	<0.005	0.16	<0.05	4.7	0.2	0.18	<0.001	<0.1	0.111	14	18	32	0.1 U	<1 U	13.1
RW-A	N	1/12/2010	6,809.18	6.06	6.58	3830	no data	no data	no data	no data	319	no data	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/14/2010	6,811.13	6.1	6.44	3940	no data	no data	no data	no data	302	no data	38	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/21/2010	6,799.48	6.34	6.61	4020	no data	no data	no data	no data	278	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/12/2010	6,808.53	5.99	7.48	3940	586	270	145	10	276	2640 D	35 D	4.74	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	0.19	<0.05	4.82	0.2	0.21	<0.001	<0.1	0.106	12	16	28	0.07 U	1.0 U	14.5
RW-A	N	1/11/2011	no data	6.29	7.36	3990	no data	no data	no data	no data	260	no data	38 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/13/2011	6,818.03	6.35	6.36	4080	no data	no data	no data	no data	248	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/20/2011	6,810.83	7.12	7.6	4080	no data	no data	no data	no data	238	no data	37 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/11/2011	6,809.74	6.4	7.58	4100	560	301	142	10	220	2830 D	39 D	2.8 D	<0.5	<0.50	<0.1	<0.001	<0.01	<0.005	0.25	<0.05	5.1	0.2	0.27	<0.001	<0.1	0.105	13	15	28	0.008 U	0.4 U	13.6
RW-A	N	1/11/2012	6,803.08	6.39	6.94 H	4200	no data	no data	no data	no data	221	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/10/2012	6,811.66	6.28	6.42 H	4320 D	no data	no data	no data	no data	229	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/17/2012	6,811.03	6.36	6.45 H	4300	no data	no data	no data	no data	227	no data	39 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/16/2012	6,810.63	6.46	6.43 H	4460	595	346	149	11	227	2780 D	36 D	2.5 D	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.27	<0.001	4.91	0.1	0.31	<0.001	<0.1	0.0936	12	21	33	0.01 U	0.6 U	10.7
RW-A	N	1/15/2013	6,810.25	6.44	6.29 H	4210	no data	no data	no data	no data	215	no data	36 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/9/2013	6,809.54	6.38	6.34 H	4340	no data	no data	no data	no data	217	no data	33 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/16/2013	6,809.27	6.29	6.40 H	4620	no data	no data	no data	no data	191	no data	33 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/15/2013	6,812.16	6.53	6.41 H	4450	563	347	139	10	202	2910 D	40 D	2.44	<0.1	<0.50	1.8	0.001	0.004	<0.005	0.28	0.001	5.51	0.6	0.31	<0.001	<0.1	0.178	13	15	28	0.08	-0.2 U	23.6
RW-A	N	1/14/2014	6,811.44	6.36	6.28	4370	no data	no data	no data	no data	205	no data	33	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/9/2014	6,809.28	6.10	6.30 H	4620	no data	no data	no data	no data	171	no data	34 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/15/2014	6,809.42	6.14	6.28 H	4560	no data	no data	no data	no data	165	no data	32 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/14/2014	6,810.20	6.09	6.24 H	4010	550	272	126	9	165	2660 D	36 D	2.79	<0.1	<0.50	7.8	<0.001	0.007	<0.005	0.27	0.011	4.82	0.3	0.32	<0.001	<0.1	0.138	15	32	47	5.2	2.3	20.8
RW-A	N	1/13/2015	6,808.08	6.36	6.32 H	4740	no data	no data	no data	no data	169	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/14/2015	6,807.81	6.08	6.22 H	4950	no data	no data	no data	no data	145	no data	32	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/15/2015	6,807.88	6.03	6.25 H	4880	no data	no data	no data	no data	151	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/14/2015	6,806.56	6.40	6.25 H	5170	551	469	143	10	106	3470 D	32 D	1.6 D	<0.1	<0.50	0.1	<0.001	<0.001	<0.005	0.34	<0.001	5.78	<0.1	0.35	<0.001	<0.1	0.0288	13	17	30	0.1 U	0.7 U	23
RW-A	N	1/13/2016	6,807.06	6.29	6.26 H	5110	no data	no data	no data	no data	131	no data	33 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/13/2016	6,806.32	6.06	6.20 H	5420	no data	no data	no data	no data	98	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/19/2016	6,806.71	6.10	6.12 H	5540 D	no data	no data	no data	no data	92	no data	31 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/11/2016	6,807.94	6.05	5.96 H	5240	522	496	135	9	72	3630 D	29 D	0.8 D	0.4	<0.50	0.2	<0.001	<0.001	<0.005	0.47	<0.001	6.3	<0.1	0.44	<0.001	<0.1	0.0139	12	16	28	-0.004 U	0.5 U	26
RW-A	N	1/17/2017	6,806.63	5.87	5.93 H	5550 D	no data	no data	no data	no data	83	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/12/2017	6,805.86	5.45	5.92 H	5700 D	no data	no data	no data	no data	61	no data	27	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/19/2017	6,807.48	5.42	5.55 H	5570 D	no data	no data	no data	no data	31	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/10/2017	6,806.81	5.68	5.94 H	5950 D	527	625	157 D	11	57	4200 D	32 D	0.96	0.03	<0.50	<0.1	<0.001	0.001	<0.005	0.51	<0.001	7.63	<0.1	0.44	<0.001	<0.1	0.0123	12.4	19.9	32.3	0.07 U	1.3 U	14.9
RW-A	N	1/17/2018	6,805.69	5.58	5.85 H	6090 D	no data	no data	no data	no data	43	no data	30 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	4/11/2018	6,806.95	5.69	5.89 H	5810 D	no data	no data	no data	no data	47	no data	28 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	7/18/2018	6,807.01	5.46	5.71 H	5980 D	no data	no data	no data	no data	29	no data	27 D	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data
RW-A	N	10/10/2018	6,807.04	5.47	5.80 H	6090 D	509	640	160 D	12	43	4300 D	29 D	0.73	<0.01	<0.50	0.59	0.002	0.003	<0.001	0.459	<0.001	7.2	0.046	0.477	<0.001	<0.01	0.0206	12.8	17.4	30.2	-0.05 U	0.5 U	18.2
RW-A	N	1/5/2019	6,804.86	5.54	5.59 H	6030					27		28																						
RW-A	N	4/17/2019	6,806.66	5.60	5.65 H	6070 D					29		27 D																						
RW-A	N	7/30/2019	6,806.57	5.48	5.66 H	6120 D					25		26 D																						
RW-A	N	10/8/2019	6,806.77	6.25	5.61 H	6060 DH	498	661	158	13	25	4330 D	27 D	0.64	<0.01	<0.50	0.29	<0.001	0.002	<0.001	0.403	<0.001	6.99	0.009	0.458	<0.001	<0.01	0.0091	16.9	16	32.9	0.2 U	0.7 U	21.3

wood.

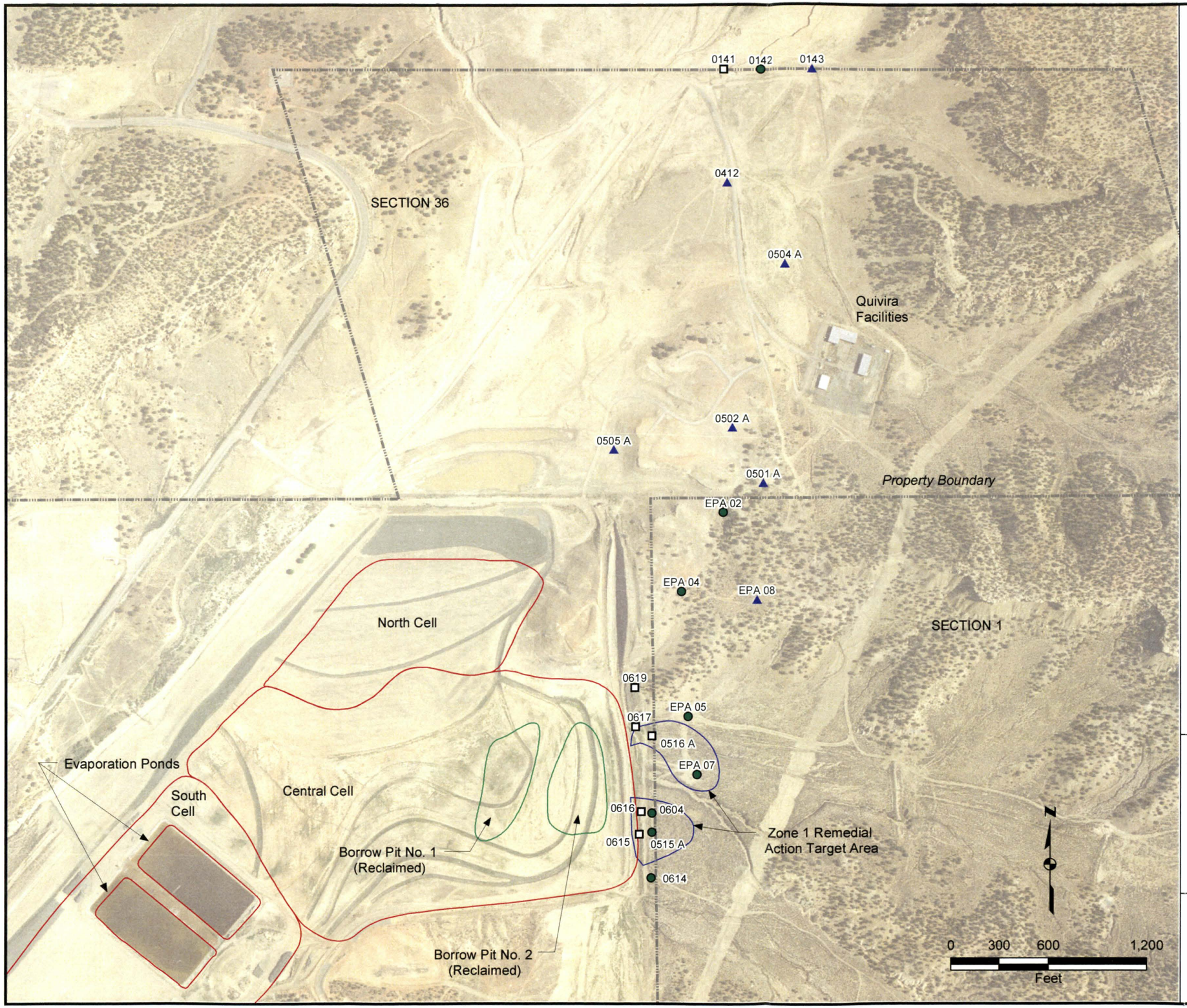
Appendix C: Zone 1 Monitoring Data (Table C.1) with Introductory Text; Figure C-1 (Zone 1 2019 Monitoring Well Locations); and 2019 Laboratory Groundwater Analytical Report

APPENDIX C
ZONE 1 MONITORING DATA

Remedial action in Zone 1 consisted of dewatering Borrow Pit No. 2, which was the source of tailings seepage into Zone 1, plus continued operation of the East and North Cross-Dike Pump-Back Wells. Dewatering of Borrow Pit No. 2 was completed in April 1989. The pump-back wells were operated until September 1990, when they were replaced by the Revised East System, consisting of Wells 615, 616, 617, and EPA 7. The Revised East System operated from 1990 through July 1999, when it was decommissioned with approval from NRC and EPA.

Remedial action has been monitored by measurement of groundwater levels and groundwater sampling and analyses at thirteen Zone 1 monitoring wells (Wells 515A, 516A, 604, 614, 619, EPA 2, EPA 4, EPA 5, EPA 7, EPA 8, 141, 142, and 143). This program was modified beginning in the second quarter of 2000 when the revised monitoring program was implemented. The wells included in the monitoring program for Zone 1 are listed in Table 15 of this 2019 Annual Review Report. See enclosed Figure C-1 for the current layout of the wells.

Table C.1 presents the quarterly water level and water quality data for the monitoring wells from the second quarter 1989, when the borrow pit was dewatered, through the fourth quarter 2019. Monitoring Well EPA 7 was used as an extraction well from September 1990 until October 1994; consequently, water level data for this well are available only for the time prior to its conversion to an extraction well, during times when the pump was shut off for maintenance, and after October 1994. The 2019 laboratory analytical data for the Zone 1 are presented at the end of this appendix.



LEGEND

- Groundwater Quality and Water Level Monitoring Well
- Water Level Monitoring Well
- Zone 1 Monitoring Well Removed From Monitoring Program
- Section Boudary
- Tailings Pond
- Property Boundary
- Remedial Action Targe Area

Aerial photo taken on August 1, 1996.

FIGURE C-1

Zone 1 2019 Monitoring Well Locations

United Nuclear Corporation Church Rock Site,
Church Rock, New Mexico

wood.

P:\consulting\projects\19\WDC8020.300.304_G.E. Church Rock\GIS\2019 ANNUAL REPORT FIGURES

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0141	N	7/22/1989	6,765.10	7.90	7.90	2458	21	8	316	3.74	244	540	17.1	0.42	0.06	< 1	< 0.1	0.003	< 0.05	< 0.01	< 0.01	< 0.05	0.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0069	< 0.2	2.9	2.9	0.6	< 1	2
0141	N	10/12/1989	6,765.50	7.70	8.00	938	19.1	8.4	306	4.6	257	482	21	0.37	0.1	< 1	< 0.1	0.003	< 0.05	< 0.01	< 0.01	< 0.05	0.05	0.02	< 0.05	0.001	< 0.1	0.019	6.5	< 1	6.5	< 0.2	1.2	7.1
0141	N	1/3/1990	6,765.20	7.90	7.60	994	23.9	11	306	3.4	262	497	24.8	0.72	0.42	< 1	< 0.1	0.002	< 0.05	< 0.01	< 0.01	< 0.05	0.07	0.02	< 0.05	< 0.001	< 0.1	0.014	0.6	< 1	0.6	< 0.2	2	1.7
0141	N	4/3/1990	6,765.20	7.90	7.80	1024	24	9.8	304	3.6	262	458	32.9	0.76	0.44	< 1	< 0.1	0.003	< 0.05	< 0.01	< 0.01	< 0.05	0.16	< 0.1	< 0.05	0.001	< 0.1	0.008	0.6	< 1	0.6	1.6	< 1	2.5
0141	N	7/2/1990	6,764.90	7.60	7.72	1036	25.2	11	321	3.9	257	487	37.2	0.1	0.26	< 1	< 0.1	0.007	< 0.05	< 0.01	< 0.01	< 0.05	0.18	< 0.1	< 0.05	0.001	< 0.1	0.0078	0.5	< 1	0.5	< 0.2	< 1	< 1
0141	N	10/2/1990	6,764.90	7.60	7.65	1023	21.5	10.1	305	3.7	243	509	42	0.21	0.29	< 1	< 0.1	0.006	< 0.05	< 0.01	< 0.01	< 0.05	0.15	< 0.1	< 0.05	0.001	< 0.1	0.007	0.5	< 1	0.5	< 0.2	< 1	< 1
0141	N	1/16/1991	6,764.90	7.50	7.89	1051	25.6	11.9	337	5.8	248	534	65.7	0.3	0.35	< 1	< 0.1	0.002	< 0.01	< 0.01	0.01	< 0.05	0.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0065	0.2	< 1	0.2	< 0.2	< 1	< 1
0141	N	4/3/1991	6,764.90	7.70	8.10	1070	23.3	10.6	311	3.1	254	530	41	0.32	0.18	< 1	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	0.12	< 0.1	< 0.05	< 0.001	< 0.1	0.005	0.4	< 1	0.4	< 0.2	< 1	< 1
0141	N	7/16/1991	6,764.60	7.60	7.54	1059	23.1	10.1	305	3.4	248	550	43.5	0.4	0.17	< 1	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	0.19	< 0.1	< 0.05	< 0.001	< 0.1	0.002	< 0.2	< 1	0	< 0.2	2	< 1
0141	N	10/14/1991	6,766.70	7.50	7.99	1133	22.7	11.3	325	3.2	195	539	105	0.61	0.26	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.16	< 0.1	< 0.05	0.001	< 0.1	0.022	0.8	< 1	0.8	< 0.2	< 1	< 1
0141	N	1/14/1992	6,770.80	7.40	7.62	1042	25.7	13.1	321	3.5	249	525	88.2	1.87	< 0.01	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.13	< 0.1	< 0.05	0.002	< 0.1	0.005	8.4	3.7	12.1	< 0.2	< 1	9
0141	N	4/7/1992	6,772.10	7.40	7.46	1123	25.8	13.9	379	3.8	326	511	116	0.46	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	0.15	< 0.1	< 0.05	< 0.001	< 0.1	0.002	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	7/7/1992	6,772.80	7.50	7.80	1175	26.3	13.6	414	4.69	239	506	118	0.68	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	0.12	< 0.1	< 0.05	0.001	< 0.1	0.005	2.3	1.5	3.8	< 0.2	< 1	2.5
0141	N	10/6/1992	6,774.20	7.60	7.61	1141	31.7	13.6	360	3.4	246	525	108	0.23	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	0.2	< 0.1	< 0.05	0.001	< 0.1	0.01	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	1/5/1993	6,775.10	7.70	7.93	1370	34.1	14.3	420	4.6	248	638	68.9	0.13	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.41	< 0.1	< 0.05	0.007	< 0.1	0.011	0.4	< 1	0.4	< 0.2	< 1	< 1
0141	N	4/6/1993	6,775.90	7.80	8.18	1100	23.4	10	371	2.5	244	495	91.3	0.4	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	0.19	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.3	< 1	0.3	< 0.2	< 1	< 1
0141	N	7/13/1993	6,776.50	7.70	7.12	1071	23.8	11.1	343	2.9	257	575	79.1	< 0.05	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.16	< 0.1	< 0.05	< 0.001	< 0.1	0.005	< 0.2	2.5	2.5	< 0.2	1	< 1
0141	N	10/6/1993	6,776.80	7.80	7.31	1105	27.2	12	304	2.7	257	541	64	0.47	0.16	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.22	< 0.1	< 0.05	< 0.001	< 0.1	0.006	0.6	< 1	0.6	< 0.2	< 1	< 1
0141	N	1/5/1994	6,775.70	7.70	7.78	1101	28.7	12.8	313	2.9	237	550	71	0.39	0.73	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.19	< 0.1	< 0.05	< 0.001	< 0.1	0.005	0.4	< 1	0.4	< 0.2	6.2	< 1
0141	N	4/13/1994	6,778.30	7.70	7.76	1017	35.1	11.7	301	2.4	234	499	49.4	0.18	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.15	< 0.1	< 0.05	< 0.001	< 0.1	0.008	0.5	< 1	0.5	< 0.2	1.7	< 1
0141	N	7/20/1994	6,778.70	7.70	7.34	1010	33.3	10.7	312	2.9	240	548	42.8	0.34	0.13	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.2	< 0.1	< 0.05	0.001	< 0.1	0.004	1.5	< 1	1.5	< 0.2	< 1	1.7
0141	N	10/4/1994	6,779.20	7.60	8.02	1076	25.9	11.5	342	3.4	260	537	43.2	0.15	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.26	< 0.1	< 0.05	< 0.001	< 0.1	0.003	0.5	< 1	0.5	< 0.2	< 1	< 1
0141	N	1/4/1995	6,779.60	7.50	7.93	995	26	11	321	3.3	257	493	39.8	0.42	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.29	< 0.1	< 0.05	< 0.001	< 0.1	0.016	0.7	< 1	0.7	< 0.2	< 1	< 1
0141	N	4/6/1995	no data	7.60	8.15	1038	25	12.6	291	3.1	254	507	28.2	0.62	5.19	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.15	< 0.1	< 0.05	< 0.001	< 0.1	0.004	0.4	< 1	0.4	< 0.2	< 1	< 1
0141	N	7/6/1995	6,780.30	7.60	8.21	1073	28.5	13.8	306	3.2	256	528	30.4	0.24	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.3	< 0.1	< 0.05	0.001	< 0.1	0.0033	1	< 1	1	< 0.2	< 1	< 1
0141	N	10/3/1995	6,780.50	7.20	8.30	1038	22.8	10	297	3	261	485	25.9	0.46	< 0.1	< 1	< 0.1	0.004	< 0.01	< 0.01	< 0.01	< 0.05	0.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0034	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	1/3/1996	6,781.00	7.20	8.24	1097	26.6	12.1	319	3.2	255	554	15.4	0.08	0.32	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	0.3	1.4	1.7	0.6	< 1	1.1
0141	N	4/2/1996	6,781.30	7.20	8.36	1008	25.5	11.4	283	3.3	259	526	29.1	0.39	0.16	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.1	< 0.1	< 0.05	< 0.001	< 0.1	0.0016	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	7/7/1996	6,781.50	8.40	7.75	1034	26.2	11.1	288	3	254	481	23.2	0.36	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.13	< 0.1	< 0.05	< 0.001	< 0.1	0.0039	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	10/1/1996	6,781.60	7.30	8.07	1010	25.1	11.7	300	3.1	254	498	25.4	0.31	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.12	< 0.1	< 0.05	0.007	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	1/21/1997	6,782.30	6.70	7.93	903	23.9	10.6	303	3.17	256	500	22.5	0.3	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	0.1	< 0.1	< 0.05	< 0.001	< 0.1	0.002	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	4/8/1997	6,782.30	7.00	8.25	962	21.5	9.6	293	3.1	256	479	22.4	0.26	0.14	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.08	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	7/8/1997	6,782.20	7.90	8.33	977	25.2	11.3	304	3.2	251	516	24.4	1.33	0.13	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.12	< 0.1	< 0.05	< 0.001	< 0.1	0.002	< 0.2	< 1	0	< 0.2	28	< 1
0141	N	10/7/1997	6,782.50	7.10	8.13	997	26.2	12	277	2.94	256	504	22.8	0.2	0.19	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.13	< 0.1	< 0.05	< 0.001	< 0.1	0.005	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	1/15/1998	6,782.90	7.80	8.29	1000	27	12.1	292	3.3	259	541	26.3	0.17	0.25	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	0.07	< 0.1	< 0.05	< 0.001	< 0.1	0.0031	< 0.2	< 1	0	< 0.2	< 1	2.8
0141	N	4/7/1998	6,783.20	7.50	8.22	999	21.8	9.9	285	2.9	259	490	20.3	0.19	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	0.1	< 0.1	< 0.05	< 0.001	< 0.1	0.0029	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	7/7/1998	6,783.20	8.00	8.28	976	23	10.6	302	3.2	259	469	20.9	0.39	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	0.09	< 0.1	0.05	< 0.001	< 0.1	0.0027	< 0.2	< 1	0	< 0.2	< 1	< 1
0141	N	10/6/1998	6,783.20	7.40	8.17	1030	28	12.4	296	3.7	261	545	22.9	3.48	0.34	< 1	< 0.1	0.009	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	0.37	< 0.1	< 0.05	< 0.001	< 0.1	0.334	1.5	< 1	1.5	< 0.2	< 1	< 1
0141	N	1/5/1999	6,783.60	7.80	8.06	1070	30.5	13.1	273	3.7	253	514	25.2	0.07	< 0.1	< 1	< 0.1	0.007	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	0.43	0.14	< 0.05	< 0.001	< 0.1	0.014	1.5	< 1	1.5	< 0.2	< 1	< 1
0141	N	4/6/1999	6,782.90	7.60	8.13	1070	31.9	16.3	299	3.4	249	516	25.2	0.23	0.21	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.0059	1	< 1	1	< 0.2	< 1	< 1
0141	N	7/13/1999	6,783.54	6.80	8.28	968	29.7	14.2	285	7.5	258	507	30.2	0.37	< 0.1	< 1	< 0.1	0.004	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	0.27	< 0.1	< 0.05	0.001	< 0.1	0.0541	1.1	< 1	1.1	< 0.2	< 1	< 1
0141	N	1/4/2000	6,780.50	7.00	8.38	2280	19.7	6.4	665	7	228	1150	176	< 0.05	0.28	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	0.11	< 0.1	< 0.05	0.001	< 0.1	0.0183	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	10/12/1989	6,759.80	7.70	7.87	1096	27.9	13.4	333	5.1	247	580	19.2	0.2	0.38	< 1	< 0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.02	0.03	< 0.05	< 0.001	< 0.1	0.005	0.3	< 1	0.3	< 0.2	3.1	1.1
0142	N	1/3/1990	6,759.80	7.60	7.72	1130	30.6	13.9	332	3.9	245	579	20.6	0.34	0.4	< 1	0.1	0.002	< 0.05	< 0.01	< 0.01	< 0.05	0.03	0.02	< 0.05	0.001	< 0.1	0.006	1.3	1.1	2.4	< 0.2	2.9	1.9
0142	N	4/3/1990	6,759.60	7.80	7.92	1265	47.4	23.1	318	4.4	281	648	18.5	0.71	0.34	< 1	< 0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.12	< 0.1	< 0.05	0.003	< 0.1	0.008	1.3	< 1	1.3	< 0.2	< 1	2.1
0142	N	7/2/1990	6,759.40	7.60	8.00	1106	32.2	13.6	317	4	253	564	18.1	0.17	0.31	< 1	0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.5	< 1	0.5	< 0.2	< 1	< 1
0142	N	10/2/1990	6,759.60	7.70	7.85	1116	22.8	11	310	3.4	234	590	18.8	0.09	0.33	< 1	0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.003	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	1/3/1991	6,759.50	7.70	7.10	1113	29	14.3	318	11.9	244	607	18	0.36	0.33	< 1	< 0.1	0.001	< 0.01	0.02	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.0032	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	4/9/1991	6,759.80	7.70	8.22	1015	31.1	13.7	308	3.9	250	588	17.4	0.21	0.25	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	0.001	< 0.1	0.0029	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	7/16/1991	6,759.60	7.70	7.88	1085	35.2	16.8	286	3.7	271	643	17.2	0.34	0.21	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.003	1.3	< 1	1.3	< 0.2	1.6	< 1
0142	N	10/14/1991	6,761.00	7.60	8.07	1110	31.6	14.8	297	3.4	271	590	15.3	0.3	0.14	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.015	1.5	< 1	1.5	< 0.2	< 1	< 1
0142	N	1/14/1992	6,764.10	7.40	7.85	1071	27.6	13.8	296	3.3	259	595	16.4	0.95	0.37	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	0.001	< 0.1	0.002	0.2	< 1	0.2	< 0.2	< 1	< 1
0142	N	4/7/1992	6,765.70	7.50	8.19	1023	28.8	15.6	335	4.5	256	579	17	0.25	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.001	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	7/7/1992	no data	7.60	8.17	1101	35.5	19	355	4.84	263	588	16	0.99	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	0.002	< 0.1	0.003	0.6	3.1	3.7	< 0.2	< 1	< 1
0142	N	10/6/1992	6,767.90	7.80	8.06	1100	37	17.8	332	3.2	260	588	16.8	0.08	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.01	< 0.1	< 0.05	0.001	< 0.1	< 0.0003	0.4	1.1	1.5	< 0.2	1.4	< 1
0142	N	1/5/1993	6,769.00	7.80	8.14	1019	27.1	11.9	279	3.9	256	542	17.4	0.31	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	0.01	< 0.05	0.01	< 0.1	< 0.05	0.007	< 0.1	0.01	1.5	< 1	1.5	< 0.2	< 1	1.6
0142	N	4/6/1993	6,770.00	7.80	8.08	1084	31.8	14.8	326	2.6	254	560	16.1	0.31	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.002	0.8	< 1	0.8	< 0.2	2.6	< 1
0142	N	7/13/1993	6,770.50	7.80	7.09	1066	33.5	15.4	293	2.9	264	597	17.2	< 0.05	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.3	< 1	0.3	< 0.2	< 1	< 1
0142	N	10/6/1993	6,771.00	7.80	7.60	1074	32.3	13.9	295	2.6	255	566	15.9	0.13	0.17	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.1	< 1	1.1	< 0.2	2.9	< 1
0142	N	1/5/1994	6,770.70	7.80	8.03	1056	33.7	15.4	307	2.8	246	563	16.4	0.31	0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.006	0.7	< 1	0.7	< 0.2	< 1	1.4

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0142	N	4/13/1994	6,772.60	7.90	7.84	989	31	13.5	287	2.5	234	531	16.5	0.06	0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.5	1.9	2.4	< 0.2	1.6	3.5
0142	N	7/20/1994	6,773.00	7.70	8.05	1088	34.2	14.1	286	2.8	242	538	15.8	0.08	0.45	7.09	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.8	< 1	0.8	< 0.2	1.2	< 1
0142	N	10/4/1994	6,773.80	7.70	8.15	1032	31.2	14	322	3.4	256	589	16.9	0.07	0.32	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.3	< 1	0.3	< 0.2	< 1	< 1
0142	N	1/4/1995	6,774.30	7.70	8.01	1036	29	12.2	325	3.3	251	550	17.4	0.14	0.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.4	1.8	2.2	< 0.2	< 1	3.3
0142	N	4/6/1995	6,774.70	7.80	8.11	1327	59	31	319	4.2	277	714	13.4	0.34	0.38	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.6	2.5	3.1	< 0.2	< 1	4.5
0142	N	7/6/1995	6,774.80	7.70	8.32	1230	43	20.2	318	3.6	260	625	16.5	0.08	0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	0.001	< 0.1	< 0.0003	1.2	< 1	1.2	0.4	< 1	< 1
0142	N	10/3/1995	6,775.30	7.30	8.30	1222	45.5	21.9	309	3.7	275	617	15.3	0.12	0.2	< 1	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.9	3.4	4.3	< 0.2	< 1	< 1
0142	N	1/3/1996	6,775.50	7.80	8.05	1018	23.2	11.9	302	3	253	492	25.3	0.2	0.19	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0034	0.4	< 1	0.4	0.6	< 1	< 1
0142	N	4/2/1996	6,776.10	7.10	8.42	1074	28.3	12.7	298	3.2	250	593	17.7	0.19	0.25	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	7/7/1996	6,776.10	7.90	7.72	1075	26.1	11.4	300	3.1	243	481	23.2	0.26	0.44	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0007	0.5	< 1	0.5	< 0.2	< 1	< 1
0142	N	10/1/1996	6,776.20	7.50	8.12	1060	25.2	11.3	318	3.2	245	540	21.3	0.19	0.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.01	< 0.1	< 0.05	0.003	< 0.1	< 0.0003	0.3	< 1	0.3	< 0.2	< 1	< 1
0142	N	1/21/1997	6,777.10	6.50	7.86	1020	32.8	15.3	322	3.5	240	567	15.9	0.17	0.15	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	4/8/1997	6,777.20	6.60	8.28	1040	26.8	12	312	3.3	249	551	16.6	0.15	0.29	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	7/8/1997	6,777.20	8.10	8.32	1030	27	12	322	3.4	240	575	18.6	0.25	0.12	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.5	< 1	0.5	< 0.2	< 1	< 1
0142	N	10/7/1997	6,773.00	7.40	8.19	1070	27.6	12.1	299	3.06	248	572	16.1	0.21	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.001	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	1/15/1998	6,774.00	7.80	8.32	1170	39.6	17.9	330	3.8	261	673	20.9	0.35	0.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	1.8	< 1	1.8	< 0.2	< 1	< 1
0142	N	4/7/1998	6,773.40	7.80	8.26	1100	26	11.6	314	3.2	245	546	18	0.13	0.14	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	0.9	< 1	0.9	< 0.2	< 1	< 1
0142	N	7/7/1998	6,773.70	8.10	8.27	1070	25.8	11.7	325	3.4	245	533	17	0.18	0.22	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	10/6/1998	6,774.20	7.27	8.29	1170	36	17.9	325	4	267	640	18.1	2.04	0.31	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	0.08	< 0.1	< 0.05	< 0.001	< 0.1	0.0051	1.1	< 1	1.1	< 0.2	< 1	< 1
0142	N	1/5/1999	6,774.00	8.00	8.21	1210	37.7	17.9	309	3.6	273	628	18.2	0.12	0.24	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	0.21	0.14	< 0.05	< 0.001	< 0.1	0.004	2.1	3	5.1	< 0.2	< 1	< 1
0142	N	4/6/1999	6,774.20	8.00	8.15	1120	33	15.8	313	3.5	250	562	22.7	0.21	0.25	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	7/13/1999	6,774.40	6.80	8.27	1030	32.4	15.8	299	6.7	262	498	24.5	0.26	0.16	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.01	< 0.1	< 0.05	0.001	< 0.1	0.0009	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	10/5/1999	6,775.00	7.60	8.11	1130	29.6	14.6	308	3.7	251	557	21.4	0.26	0.13	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	0.7	< 1	0.7	< 0.2	< 1	< 1
0142	N	1/4/2000	6,774.40	7.20	8.36	1500	82.2	41.7	319	7.8	309	797	26.6	1.51	0.11	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.1	0.14	< 0.05	< 0.001	< 0.1	0.0077	2.4	1.5	3.9	< 0.2	< 1	2.5
0142	N	5/10/2000	6,780.70	8.40	8.27	1080	27.2	12.6	306	3.25	242	613	19.1	0.24	< 0.1	< 1	1.18	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.07	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	Dup	5/10/2000	no data	8.32	8.26	1110	26.5	12.2	307	3.1	239	611	18.5	0.25	< 0.1	< 1	0.7	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.06	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	0.7	< 1	0.7	< 0.2	< 1	< 1
0142	N	7/10/2000	6,780.50	8.13	7.99	1060	25.8	11.8	318	3.1	242	543	19.9	0.28	< 0.1	< 1	0.75	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.07	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	0.9	< 1	0.9	< 0.2	< 1	1.4
0142	Dup	7/10/2000	no data	8.13	8.06	1060	24.3	11.2	314	3.01	240	537	19.3	0.29	< 0.1	< 1	0.39	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.06	< 0.1	< 0.05	< 0.001	< 0.1	0.0024	0.7	< 1	0.7	< 0.2	< 1	1.4
0142	N	10/2/2000	6,780.60	8.08	7.84	1310	52.7	46.8	314	4.9	220	676	17.7	0.3	< 0.1	< 1	0.18	0.003	< 0.01	< 0.005	< 0.01	< 0.05	0.39	0.76	< 0.05	< 0.001	< 0.1	0.0019	0.9	< 1	0.9	< 0.2	< 1	< 1
0142	N	1/16/2001	6,781.20	8.23	7.97	1060	20.7	9	309	3.6	242	594	21.6	0.27	< 0.1	< 1	0.2	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	0.4	3	3.4	< 0.2	< 1	< 1
0142	N	4/2/2001	6,781.30	8.10	8.01	1050	19.4	8.8	314	2.6	234	544	18.8	0.37	< 0.1	< 1	0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	7/16/2001	6,781.05	7.96	8.01	1080	19.9	9	297	3.7	233	550	24.7	0.27	< 0.1	< 1	0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.3	< 1	0.3	< 0.2	< 1	< 1
0142	N	10/3/2001	6,781.20	7.80	8.10	1060	18.2	8.5	272	3.5	240	555	24.7	0.19	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.5	< 1	0.5	< 0.2	< 1	< 1
0142	N	1/7/2002	6,781.15	8.23	7.90	1060	19.8	8.7	294	3.4	236	560	21.3	0.2	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.6	1.9	2.5	< 0.2	< 1	< 1
0142	N	4/8/2002	6,781.69	7.59	7.59	1070	19.4	8.5	307	2.9	239	556	21.5	0.26	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.3	< 1	0.3	< 0.2	< 1	< 1
0142	N	7/15/2002	6,781.60	7.11	8.06	1060	18.6	8.5	313	4.5	239	607	18.6	0.15	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.3	< 1	0.3	< 0.2	< 1	< 1
0142	N	10/14/2002	6,781.53	7.09	8.00	998	20.4	8.7	308	3.1	237	536	17.7	0.11	< 0.1	< 1	< 0.1	0.004	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0003	0.8	< 1	0.8	< 0.2	< 1	< 1
0142	N	1/13/2003	6,781.66	7.48	7.93	1060	24.1	8.6	313	3.3	255	526	21.3	< 0.05	< 0.1	< 1	1.1	0.003	< 0.01	< 0.005	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1	< 1	1	< 0.2	< 1	1.9
0142	N	4/14/2003	6,781.98	7.89	7.76	1080	22.5	8.7	315	5.6	245	555	18.4	< 0.05	0.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0003	< 0.2	< 1	0	< 0.2	< 1	1.1
0142	N	7/15/2003	6,781.85	7.63	7.99	1100	23.1	8.7	315	4.3	245	517	20.8	0.17	0.2	< 1	0.4	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.05	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.3	< 1	0.3	< 0.2	< 1	< 1.0
0142	N	10/13/2003	6,782.14	7.85	8.04	1070	24.5	10	319	3.1	235	553	21.6	< 0.05	< 0.1	< 1	0.4	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.09	< 0.1	< 0.05	< 0.001	< 0.1	0.0061	< 0.2	< 1	0	< 0.2	< 1	< 1.0
0142	N	1/13/2004	6,782.00	7.80	7.97	1070	24.8	10.8	329	5.1	245	579	18	< 0.05	< 0.10	< 1.0	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	0.0005 D	< 0.2	< 1.0	0	< 0.2	< 1.0	< 1.0
0142	N	4/12/2004	6,782.40	7.76	7.28	1030	23.5	9.5	308	4.2	255	532	20.6	< 0.05	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	7/19/2004	6,782.17	8.32	7.75	1070	22.4	9.4	330	2.9	237	549	19	0.19	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.4	< 1.0	0.4	< 0.2	< 1.0	< 1.0
0142	N	10/11/2004	6,782.35	8.02	7.99	1090	21	9.5	308	3.8	233	527	19	0.09	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1.0	0	< 0.2	< 1.0	< 1.0
0142	N	1/10/2005	6,782.41	7.72	7.89	1070	22.4	9.7	326	3	241	540	19	< 0.05	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.5	< 1.0	0.5	< 0.2	< 1.0	< 1.0
0142	N	4/12/2005	6,782.45	7.55	7.82	1070	23.6	10.1	335	3.2	235	568	16	< 0.05	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1.0	0	< 0.2	< 1.0	< 1.0
0142	N	7/18/2005	6,782.40	7.29	7.93	1060	22.5	9.9	326	2.8	239	535	15	< 0.05	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1.0	0	< 0.2	< 1.0	< 1.0
0142	N	10/10/2005	6,782.69	7.53	7.94	1050	22.8	10.3	322	3.2	250	562	19	< 0.05	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1.0	0	< 0.2	< 1.0	< 1.0
0142	N	1/16/2006	6,782.66	7.46	8.29	1040	22	9.9	312	3.1	250	521	17	< 0.05	1.4	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	< 0.2	2.3	2.3	< 0.2	< 1.0	< 1.0
0142	N	4/10/2006	6,782.62	7.55	7.68	1030	24.3	11.2	310	3	247	546	18	< 0.05	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	2.8	2.8	< 0.2	< 1.0	< 1.0
0142	N	7/24/2006	6,782.43	7.63	7.45	998	27.4	12.6	343	3.5	249	583	19	0.08	< 0.1	< 1.0	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	2.8	2.8	< 0.2	< 1.0	< 1.0
0142	N	10/9/2006	6,782.55	7.62	7.79	986	29.1	13.9	322	3.5	249	578	18	0.2	< 0.1	< 0.5	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.05	< 0.1	< 0.05	0.002	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
0142	N	1/15/2007	6,782.42	7.79	7.92	1070	31	15.4	315	3.9	251	599	19	0.14	0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.03	<0.1	<0.05	<0.001	<0.1	<0.0003	<0.2	<1	0	<0.2	<1	<1
0142	N	4/16/2007	6,782.60	7.66	7.79	1070	32.4	17	325	4.1	257	644	21	0.23	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	<0.01	<0.1	<0.05	<0.001	<0.1	<0.0003	<0.2	<1	0	<0.2	<1	<1
0142	N	7/17/2007	6,782.30	7.51	7.42	1070	33.7	16.9	322	3.5	259	603	17	0.17	0.2	<0.5	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	<0.2	<1	0	<0.2	<1	<1
0142	N	10/9/2007	6,782.23	7.14	7.53	1090	33.9	17	305	3.5	250	570	16	0.15	0.3	<0.5	<0.1	0.001	<0.01	<0.005	<0.01	<0.05	0.03	<0.1	<0.05	<0.001	<0.1	<0.0003	<0.2	<1	0	<0.2	<1	<1
0142	N	1/22/2008	6,781.90	7.62	7.56	1080	34.9	16.7	320	3.9	257	563 D	23 D	0.14	0.3	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.05	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	0.9	< 1	0.9	< 0.2	6.1	3.6
0142	N	4/16/2008	6,782.55	7.53	7.5	1060	38.9	19	346 D	3.5	250	617 D	15	0.18	0.1	< 0.5	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	0.05	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	0.1 U	0.7 U	0.8	0.3	-0.8 U	1.5
0142	N	7/15/2008	6,782.15	7.42	7.76	1100	40	20	341 D	4	266	638 D	16	0.23	< 0.1	< 0.5	< 0.1	< 0.003	< 0.01	< 0.005	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0006	0.54	0.71 U	1.25	0 U	0.3 U	0.7 U

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0142	N	10/14/2008	6,782.20	7.50	7.78	1130	40	20	338 D	3	261	629 D	15	0.3	< 0.1	< 0.5	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.05	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.08 U	0.57 U	0.65	0.3	-0.1 U	1.5
0142	N	1/20/2009	6,782.10	7.75	7.33	1200	42	23	328	4	261	714 D	12	0.18	<0.1	<0.5	0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.05	<0.1	<0.05	<0.001	<0.1	<0.0003	0.45	1.4	1.85	-0.2 U	0.2 U	0.6 U
0142	N	4/14/2009	6,782.50	7.68	7.26	1180	41	21	302	3	272	642 D	16	0.29	0.2	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.04	<0.1	<0.05	<0.001	<0.1	<0.0003	0.67	0.24 U	0.91	-0.02 U	-2 U	0.7
0142	N	7/14/2009	6,782.20	7.88	7.48	1160 H	44	22	336	4	271	657 D	15	0.36	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.05	<0.1	<0.05	<0.001	<0.1	<0.0003	0.73	0.70 U	1.43	0.05 U	0.4 U	1.7
0142	N	10/13/2009	6,782.30	7.76	7.81	1180 H	43	22	335	4	281	624 D	19	0.28	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.06	<0.1	<0.05	<0.001	<0.1	<0.0003	0.28	0.95 U	1.23	0.2 U	1.0 U	0.9
0142	N	1/12/2010	6,782.10	7.78	7.82	1180	44	22	319	4	280	650 D	15	0.33	<0.10	<0.50	0.2	<0.001	<0.01	<0.005	<0.01	<0.05	0.06	<0.1	<0.05	<0.001	<0.1	<0.0003	0.36	1.7	2.06	0.06 U	1.1 U	1.1
0142	N	4/13/2010	6,782.40	7.96	7.6	1220	46	23	334	4	302	686 D	22	0.44	<0.1	<0.50	0.4	<0.001	<0.01	<0.005	<0.01	<0.05	0.06	<0.1	<0.05	<0.001	<0.1	<0.0003	0.51	1.5	2.01	0.02 U	-0.5 U	0.7
0142	N	7/20/2010	6,782.15	7.67	7.2	1210 H	47	25	317	4	294	659 D	16	0.38	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	0.48	0.59 U	1.07	0.06 U	-0.4 U	2
0142	N	10/12/2010	6,782.20	7.76	7.74	1260	48	24	344	4	298	695 D	15	0.32	0.1	<0.50	0.3	<0.001	<0.01	<0.005	<0.01	<0.05	0.03	<0.1	<0.05	<0.001	<0.1	<0.0003	0.83	1.1 U	1.93	0.04 U	0.9 U	0.6 U
0142	N	1/12/2011	6,782.10	7.84	7.86	1160	49	25	326	4	285	664 D	17	0.46	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.05	<0.1	<0.05	<0.001	<0.1	<0.0003	1.1	0.78 U	1.88	0.002 U	0.3 U	1.7
0142	N	4/12/2011	6,782.30	7.87	7.68	1230	51	26	353	4	285	669 D	17	0.46	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.04	<0.1	<0.05	0.001	<0.1	<0.0003	0.25	0.71 U	0.96	-0.02 U	0.3 U	1.2
0142	N	7/19/2011	6,782.05	7.93	7.98	1220	51	25	337	4	288	665 D	17	0.5 D	<0.1	<0.50	0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	0.53	1.1 U	1.63	0.04 U	-0.7 U	1.1
0142	N	10/11/2011	6,782.10	7.9	8.01	1220	51	26	332	4	266	684 D	17	0.4 D	<0.1	<0.50	0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	0.78	1.1 U	1.88	-0.007 U	0.7 U	1 U
0142	N	1/10/2012	6,782.10	8.04	7.14 H	1240	57	26	308	4	269	672 D	17	0.39	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	0.8	1.8	4.4	0.06 U	0.2 U	0.3 U
0142	N	4/10/2012	6,782.05	7.91	7.34 H	1260	52	26	312	4	283	658 D	16	0.45	<0.1	<0.50	0.1	<0.01	<0.01	<0.005	<0.01	<0.05	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	0.66	0.07 U	0.8	0.04 U	0.1 U	0.7
0142	N	7/17/2012	6,781.90	7.83	7.78 H	1330	61	29	336	4	288	693 D	18	<0.05	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	0.82	0.72 U	2.26	0.01 U	0.4 U	0.8
0142	N	10/16/2012	6,782.00	8.07	7.36 H	1290	61	31	362	4	296	697 D	18	0.4	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	<0.01	<0.1	<0.05	<0.001	<0.1	<0.0003	0.57	1.1 U	0.57	0.04 U	0.4 U	1.1
0142	N	1/15/2013	6,781.84	7.43	7.34 H	1280	63	34	361	4	294	717 D	17	0.45	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	0.76	0.92 U	0.76	0.03 U	0.07 U	-0.002 U
0142	N	4/9/2013	6,782.34	7.88	7.40 H	1320	62	33	324	4	302	726 D	16	0.45	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	<0.01	<0.1	<0.05	<0.001	<0.1	<0.0003	0.68	0.83 U	0.68	0.1	-0.3 U	0.6 U
0142	N	7/15/2013	6,781.86	7.84	7.49 H	1330	61	32	314	4	304	712 D	19	0.41	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.01	<0.1	<0.05	<0.001	<0.1	0.0004	0.68	1.9	2.58	0.06 U	-0.02 U	1
0142	N	10/8/2013	6,781.82	7.97	7.41 H	1330	63	32	334	4	308	711 D	17	0.67 H	<0.1	<0.50	0.2	<0.001	<0.001	<0.005	<0.01	<0.001	0.03	<0.1	<0.05	<0.001	<0.1	0.0005	1.1	1.2 U	1.1	0.05 U	-0.3 U	0.9
0142	N	1/14/2014	6,781.47	8.10	7.97	1360	66	33	331	4	306	707	17	0.36	0.1	<0.50	0.2	<0.001	<0.001	<0.005	<0.01	<0.001	0.04	<0.1	<0.05	<0.001	<0.1	0.0004	1.3	0.48 U	1.3	0.07 U	0.2 U	0.5
0142	N	4/2/2014	6,781.96	8.11	7.43 H	1350	67	35	363	4	308	717 D	18	<0.05	0.7	<0.50	0.2	<0.001	<0.001	<0.005	<0.01	<0.001	0.04	<0.1	<0.05	<0.001	<0.1	0.0003	0.68	2.4	3.08	0.02 U	0.4 U	1.3
0142	N	7/9/2014	6,781.46	7.84	7.42 H	1330	59	34	370	4	307	741 D	17	<0.05	0.5	<0.50	0.2	<0.001	<0.001	<0.005	<0.01	<0.001	0.03	<0.1	<0.05	<0.001	<0.1	<0.0003	0.68	0.1 U	0.68	0.03 U	-0.07 U	0.8
0142	N	10/8/2014	6,781.62	7.97	7.40 H	1340	65	33	319	4	322	707 D	16	<0.05	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.02	<0.1	<0.05	<0.001	<0.1	0.0006	1	0.79 U	1	0.04 U	0.2 U	1.2
0142	N	1/7/2015	6,781.35	8.09	7.33 H	1340	66	34	320	4	313	736 D	20	<0.05	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.03	<0.1	<0.05	<0.001	<0.1	<0.0003	0.65	1.1	1.75	0.1 U	0.5 U	0.5 U
0142	N	4/8/2015	6,780.66	7.80	7.51 H	1360	68	34	318	4	329	714 D	17	<0.05	0.4	<0.5	0.4	<0.001	<0.001	<0.005	<0.01	0.002	0.12	<0.1	<0.05	<0.001	<0.1	<0.0003	0.79	1.7	2.49	0.04 U	0.07 U	5
0142	N	7/8/2015	6,781.37	7.78	7.36 H	1350	76	35.3	335	4.4	323	732 D	17	<0.05	0.4	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.01	<0.1	<0.05	<0.001	<0.1	0.0003	0.65	1.6	2.25	0.07 U	0.6 U	2.3
0142	N	10/7/2015	6,781.19	7.90	7.33 H	1350	65	33	322	4	297	721 D	18	0.15	0.3	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.01	<0.1	<0.05	<0.001	<0.1	0.0003	0.78	0.55 U	0.78	0.08 U	0.5 U	2
0142	N	1/6/2016	6,781.52	7.76	7.42 H	1330	67	35	334	4	313	729 D	17	0.13	0.4	<0.50	0.2	<0.001	<0.001	<0.005	<0.01	<0.001	0.04	<0.1	<0.05	<0.001	<0.1	0.0004	0.45	1.5	1.95	0.04 U	-0.04 U	1.5
0142	N	4/6/2016	6,780.91	7.82	7.47 H	1330	69	36	338	4	306	713 D	17	<0.05	0.5	<0.50	0.2	<0.001	<0.001	<0.005	<0.01	<0.001	0.07	<0.1	<0.05	<0.001	<0.1	0.0005	1	3	4	0.1	0.7 U	3.8
0142	N	7/13/2016	6,780.90	7.86	7.35 H	1360	69	35	328	4	320	762 D	18	<0.05	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.01	<0.1	<0.05	<0.001	<0.1	0.0003	0.83	9.5	10.33	0.05 U	-0.3 U	2.5
0142	N	10/5/2016	6,781.14	7.96	7.49 H	1340	69	36	321	4	310	768 D	17	<0.05	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.03	<0.1	<0.05	<0.001	<0.1	<0.0003	0.79	0.95 U	0.79	0.08 U	0.1 U	1.5
0142	N	1/11/2017	6,781.14	7.93	7.43 H	1350 D	72	35	316	4	309	741 D	18	<0.05	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.03	<0.1	<0.05	<0.001	<0.1	<0.0003	0.91	0.50 U	0.91	0.2 U	0.1 U	1.5
0142	N	4/5/2017	6,780.76	7.63	7.44 H	1310 D	63	32	316	4	314	710 D	17	<0.05	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.02	<0.1	<0.05	<0.001	<0.1	<0.0003	0.57	2.9	3.47	0.2 U	0.1 U	1.1 U
0142	N	7/12/2017	6,780.65	7.73	7.44 H	1310 D	63	32	299	4	305	676 D	17	<0.05	0.54	<0.50	0.2	<0.001	<0.001	<0.005	<0.01	<0.001	0.02	<0.1	<0.05	<0.001	<0.1	0.0007	0.7	0.8 U	0.7	-0.003 U	0.5 U	1
0142	N	10/4/2017	6,780.54	7.89	7.40 H	1310 D	66	34	315	4	346	667 D	17	<0.05	0.49	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	0.04	<0.1	<0.05	<0.001	<0.1	<0.0003	0.7	2.9	3.6	0.07 U	1 U	0.8
0142	N	1/10/2018	6,780.69	8.05	7.48 H	1340 D	68	35	337	4	294	768 D	18	0.06	0.41	<0.50	0.07	<0.001	<0.001	<0.001	<0.005	<0.001	0.05	0.004	<0.005	<0.001	<0.01	<0.0003	0.7	1.7 U	0.7	0.05 U	-0.8 U	1
0142	N	4/4/2018	6,780.47	7.84	7.49 H	1370 D	63	32	307	4	292	758 D	18	<0.05	0.48	<0.50	0.11	<0.001	<0.001	<0.001	<0.005	<0.001	0.054	0.003	<0.005	<0.001	<0.01	<0.0003	0.7	3.2	3.9	0.003 U	-0.4 U	1
0142	N	7/11/2018	6,780.34	7.78	7.42 H	1330 D	63	32	296	3	298	702 D	16	0.12	0.31	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	0.031	0.004	<0.005	<0.001	<0.01	<0.0003	0.6	1.2 U	0.6	0.02 U	0 U	1.1
0142	N	10/3/2018	6,780.22	7.77	7.46 H	1330 D	62	34	343	4	300	735 D	17	<0.05	0.46	<0.50	0.05	<0.001	<0.001	<0.001	<0.005	<0.001	0.038	0.009	<0.005	<0.001	<0.01	0.0004	0.5	3.6	4.1	0.3	0.1 U	0.6
0142	N	1/7/2019	6,779.98	7.69	7.55 H	1340	70	34	332	4	304	723	17	<0.05	0.48	<0.50	0.09	no data	<0.001	<0.001	<0.005	<0.001	0.059	0.006	<0.005	no data	<0.01	<0.0003	0.8	0.6	1.4	0.02	-0.7 U	1.2
0142	N	4/9/2019	6,780.43	7.89	7.59 H	1350 D	66	35	338	4	309	736 D	17	<0.05	0.51	<0.50	0.2	<0.001	<0.001	<0.001	<0.005	<0.001	0.082	0.007	<0.005	<0.001	<0.01	0.0004	0.8	1.1 U	1.9	0.01 U	0.5 U	1.2
0142	N	8/1/2019	6,779.82	7.79	7.56 H	1350	68	35	318	4	308	729	17	<0.05	0.51	<0.50	0.07	0.001	<0.001	<0.001	<0.005	<0.001	0.021	0.007	<0.005	<0.001	<0.01	0.0004	0.7	1.4	2.1	0.1	-0.2 U	0.9
0142	N	10/8/2019	6,779.87	7.91	7.62 H	1350 DH	71	36	331	5	307	745 D	17	0.07	0.44	<0.50	0.05	0.001	<0.001	<0.001	<0.005	<0.001	0.033 DL	0.007	<0.005	<0.001	<0.01	0.0003	0.7	0.7 U	1.4	-0.01 U	0 U	1.2
0143	N	7/22/1989	6,759.40	7.90	7.86	1000	34	17	297	3.74	207	596	16.7	0.44	0.39	< 1	< 0.1	0.002	< 0.05	< 0.01	< 0.01	< 0.05	0.04	< 0.1	< 0.05	0.001	< 0.1	0.0034	0.7	< 1	0.7	3	< 1	1.4
0143	N	10/11/1989	6,759.70	7.80	7.98	1022	31.3	16.6	285	4.8	220	541	16.8	0.37	0.29	< 1	< 0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.04	0.11	< 0.05	0.001	< 0.1	0.006	1.2	1.5	2.7	0.9	< 1	3.2
0143	N	1/3/1990	6,759.60	7.50	7.65	1002	32.5	16.1	291	3.6	220	542	17.3	0.48	0.22	< 1	< 0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.04	0.01	< 0.05	0.001	< 0.1	0.006	1.4	< 1	1.4	< 0.2	2.1	4
0143	N	4/3/1990	6,759.50	7.70	7.80	1042	33.8	17	280	3.7	232	503	19.7	0.57	0.37	< 1	< 0.1	0.002	< 0.05	< 0.01	0.01	< 0.05	0.06	< 0.1	< 0.05	< 0.001	< 0.1	0.0681	0.8	< 1	0.8	< 0.2	< 1	1.3
0143	N	7/2/1990	6,759.30	7.40	7.90	1033	34.5	16.6	292	3.9	226	528	17.2	0.12	1.05	< 1	< 0.1	0.002	< 0.05	< 0.01	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	0.0068	0.6	< 1	0.6	< 0.2	< 1	< 1
0143	N	10/2/1990	6,759.30	7.50	7.77	1051	31.5	19.9	281	4	212	591	17.4	0.1	2.08	< 1	< 0.1	0.002	< 0.05	< 0.01	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	0.006	0.3	< 1	0.3	< 0.2	< 1	< 1
0143	N	1/3/1991	6,759.40	7.50	7.15	1023	31.2	18.7	286	5.2	220	571	15.2	0.36	0.64	< 1	< 0.1	0.001	< 0.01	0.01	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	0.0057	0.9	< 1	0.9	< 0.2	< 1	< 1
0143	N	4/9/1991	6,759.40	7.50	8.26	944	29.4	16.2	270	3.7	223	558	16.7	0.3	0.25	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.002	< 0.2	1.7	1.7	< 0.2	< 1	< 1
0143	N	7/16/1991	6,759.20	7.60	7.73	975	29.1	15.1	264	3.4	228	620	16.6	0.28	0.25	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	10/14/1991	6,760.90	7.50	7.90	1007	25.1	13.1	279	3.1	230	533	23.4	0.11	0.06	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.003	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	1/14/1992	6,764.70	7.40	7.54	1005	28.9	15.8	267	3.2	237	565	17.2	0.78	0.18	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.01	0.1	< 0.05	< 0.001	< 0.1	0.007	0.2	< 1	0.2	< 0.2	< 1	< 1
0143	N	4/7/1992	6,766.60	7.50	7.18	964	26.6	16	321	3.7	237	523	16.9	0.31	< 0.1	< 1	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	0.02	0.1	< 0.05	< 0.001	< 0.1	0.006	< 0.2	1.8	1.8	< 0.2	< 1	< 1
0143	N	7/7/1992	6,766.90	7.60	7.56	1019	27.5	15.7	334	3.89	238	543	16.2	0.53	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	0.001	< 0.1	0.008	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	10/6/1992	6,768.00	7.80	7.86	999	31.2	15.9	284	1.7	236	524	15.5	0.23	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	0.001	< 0.1	0.017	0.3	3.7	4	< 0.2	< 1	< 1
0143	N	1/5/1993	6,769.00	7.80	8.14	1098	29.8	14.7	281	2.5	239	558	9.5	0.34	< 0.1	< 1	< 0.1	0.004	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	0.007	< 0.1	0.006	0.4	< 1	0.4	< 0.2	< 1	< 1

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0143	N	4/6/1993	6,769.80	7.70	8.07	965	25.5	12.8	299	2.2	239	495	16.1	0.28	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.004	0.4	1.6	2	< 0.2	2.2	< 1
0143	N	7/13/1993	6,770.30	7.70	7.07	932	29.2	14.2	278	2.7	243	494	16.5	< 0.05	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.003	0.8	1.2	2	< 0.2	< 1	< 1
0143	N	10/6/1993	6,770.70	7.60	7.62	978	28.2	14.2	271	2.3	243	525	15.6	0.2	0.18	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.7	< 1	0.7	< 0.2	< 1	< 1
0143	N	1/5/1994	6,771.40	7.70	7.73	953	28.3	14.3	274	2.5	224	517	18.6	0.32	0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.3	< 1	0.3	< 0.2	1.4	< 1
0143	N	4/13/1994	6,772.30	7.80	7.81	940	29.4	14.5	261	2.3	223	484	15.8	0.12	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.8	2.5	3.3	< 0.2	< 1	4.7
0143	N	7/20/1994	6,772.60	7.60	8.07	950	38.9	15.4	256	2.5	223	509	14.5	0.23	0.19	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1	< 1	1	< 0.2	< 1	1.2
0143	N	10/4/1994	6,773.20	7.60	8.09	927	33.3	16.4	285	3.1	245	525	16.2	0.23	0.16	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	0.002	0.7	< 1	0.7	< 0.2	< 1	< 1
0143	N	1/4/1995	6,773.80	7.50	8.05	959	33	15.4	283	3.2	243	498	15.2	0.23	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.002	0.8	< 1	0.8	< 0.2	< 1	< 1
0143	N	4/6/1995	6,774.20	7.70	7.93	990	32	17	267	3.1	249	519	11.6	0.27	0.24	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.002	0.2	< 1	0.2	< 0.2	1.5	< 1
0143	N	7/6/1995	6,774.40	7.60	8.32	995	30.9	15.6	269	3.1	238	495	15.5	0.14	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	< 0.03	< 0.1	< 0.05	0.001	< 0.1	< 0.0003	0.5	< 1	0.5	< 0.2	< 1	< 1
0143	N	10/3/1995	6,774.90	7.30	8.35	994	30.8	15.8	266	3.1	241	486	14.2	0.22	0.11	< 1	< 0.1	0.004	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0018	0.3	1.3	1.6	< 0.2	< 1	< 1
0143	N	1/3/1996	6,775.50	8.00	8.05	971	29.1	15.3	272	3	244	489	13.9	0.2	0.13	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	1	2.5	3.5	0.4	1	2.1
0143	N	4/2/1996	6,775.80	7.50	8.41	958	32.5	16.7	257	3.3	244	519	16.9	0.33	0.14	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	0.19	< 0.001	< 0.1	< 0.0003	0.5	< 1	0.5	< 0.2	< 1	< 1
0143	N	7/7/1996	6,776.00	7.50	7.77	964	30.2	15.3	260	3.1	240	468	14.3	0.37	0.21	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.002	< 0.2	< 1	0	< 0.2	< 1	3.8
0143	N	10/1/1996	6,776.30	7.20	8.13	975	30.7	15.9	275	3.2	240	488	17.8	0.36	0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	0.003	< 0.1	< 0.0003	0.5	< 1	0.5	< 0.2	< 1	< 1
0143	N	1/21/1997	6,777.00	6.50	7.89	994	32.4	16.5	283	3.3	244	498	14.4	0.32	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.6	< 1	0.6	< 0.2	< 1	< 1
0143	N	4/8/1997	6,777.00	6.80	8.24	938	30	15.3	265	3.1	244	484	14.4	0.24	0.15	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	7/8/1997	6,777.00	8.00	8.32	943	32.7	16.6	278	3.3	238	517	16.9	0.27	0.11	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	10/7/1997	6,777.30	7.60	8.15	975	32.7	16.8	266	3.2	246	505	12.6	0.21	0.11	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	1/15/1998	6,776.90	7.80	8.30	974	36.3	18	272	3.5	245	542	17.8	0.16	0.27	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	4/7/1998	6,778.00	7.80	8.21	980	30	15.6	263	3.1	243	486	14.8	0.14	0.15	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	7/7/1998	6,778.10	8.00	8.23	953	32.3	16.9	276	3.4	226	460	14.5	0.29	0.11	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	10/6/1998	6,778.40	7.51	8.41	986	30.7	15.7	276	3.7	245	526	16	1	0.35	< 1	< 0.1	0.006	< 0.01	< 0.005	< 0.01	< 0.05	0.1	< 0.1	< 0.05	< 0.001	< 0.1	0.0081	0.6	< 1	0.6	< 0.2	< 1	< 1
0143	N	1/5/1999	6,778.50	7.90	8.20	979	30.6	14.5	268	3.8	254	509	16.1	0.13	0.13	< 1	< 0.1	0.004	< 0.01	< 0.005	< 0.01	< 0.05	0.09	< 0.1	< 0.05	< 0.001	< 0.1	0.0148	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	4/6/1999	6,779.10	8.00	8.09	975	31.4	16.5	267	3.3	240	477	18.5	0.28	0.15	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	< 0.2	1.7	1.7	< 0.2	< 1	< 1
0143	N	7/13/1999	6,778.79	6.80	8.24	857	33.3	18	284	4	247	517	13.9	0.33	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.02	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	< 0.2	< 1	0	< 0.2	< 1	< 1
0143	N	10/5/1999	6,779.00	7.52	8.08	953	28.1	15.6	257	3	235	457	16.4	0.32	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.03	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.3	< 1	0.3	< 0.2	< 1	< 1
0143	N	1/4/2000	6,779.90	7.80	8.41	998	36.1	19.4	272	5.4	242	528	22.8	0.33	0.24	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.06	< 0.1	< 0.05	0.001	< 0.1	0.0047	2	< 1	2	< 0.2	< 1	3.1
0604	N	7/23/1989	6,919.20	3.90	4.04	6697	454	707	251	11.6	0	3891	21.4	6.39	31	< 1	60	< 0.001	< 0.05	< 0.01	0.31	< 0.05	22	< 0.1	0.39	< 0.001	< 0.1	0.004	14.1	16.8	30.9	3.5	1.7	60.2
0604	N	10/12/1989	6,919.10	3.90	4.11	6728	428	644	235	14.6	0	4407	33.7	6.05	39	< 1	66	< 0.001	< 0.05	0.01	0.31	< 0.05	22	< 0.1	0.34	0.006	< 0.1	0.006	4.5	11	15.5	33.9	< 1	41.7
0604	N	1/10/1990	6,917.80	3.90	4.06	6602	444	691	291	13.7	< 1	4325	23.1	6.7	33	< 1	58	< 0.001	< 0.05	< 0.01	0.33	< 0.05	22	< 0.1	0.38	< 0.001	< 0.1	0.005	5.1	8.5	13.6	1.7	2.8	6.5
0604	N	4/5/1990	6,917.20	4.20	4.20	6806	455	670	240	11.6	< 1	4352	33.4	6.8	43	< 1	59	< 0.001	< 0.05	< 0.01	0.31	< 0.05	19	< 0.1	0.38	< 0.001	< 0.1	0.0006	5	9	14	< 0.2	2.6	6
0604	N	7/3/1990	6,916.40	4.00	4.24	6824	461	662	240	9.6	< 1	4321	26.8	5.38	50.9	< 1	60	< 0.001	< 0.05	< 0.01	0.21	< 0.05	18.2	< 0.1	0.34	< 0.001	< 0.1	0.0029	7.6	6.5	14.1	0.4	< 1	8
0604	N	10/3/1990	6,915.80	4.10	4.11	6616	453	628	264	13.3	< 1	4290	31.1	3.27	44	< 1	77.2	< 0.001	< 0.05	< 0.01	0.35	< 0.05	22.7	< 0.1	0.4	< 0.001	< 0.1	0.003	5.8	20.3	26.1	< 0.2	< 1	6
0604	N	1/15/1991	6,914.90	4.10	4.21	6802	475	710	265	15.2	< 1	4627	31.6	5.48	52	< 1	61.8	< 0.001	0.02	< 0.01	0.39	< 0.05	20.1	< 0.1	0.44	< 0.001	< 0.1	0.007	8.2	13.8	22	< 0.2	2.3	9.1
0604	N	4/2/1991	6,914.60	4.20	4.51	6380	432	659	215	11.1	< 1	4923	33	4.6	56.5	< 1	45.3	< 0.001	0.016	< 0.01	0.23	< 0.05	14.6	< 0.1	0.38	< 0.001	< 0.1	0.005	9.1	24.3	33.4	< 0.2	1.3	15
0604	N	7/17/1991	6,914.80	4.00	4.46	6949	408	624	218	11.1	< 1	5307	28.4	5.34	51.4	< 1	70.95	< 0.001	0.03	< 0.01	0.3	< 0.05	20.5	< 0.1	0.41	< 0.001	< 0.1	0.006	4.3	12.5	16.8	< 0.2	2.1	4
0604	N	9/4/1991	no data	no data	3.98	7438	444	715	251	11.4	< 1	5494	31	7.1	31.3	< 1	70.4	< 0.001	< 0.01	< 0.01	0.39	< 0.05	21	< 0.1	0.45	0.001	< 0.1	0.005	3.8	14.3	18.1	< 0.2	< 1	4
0604	N	10/15/1991	6,914.30	3.90	4.26	6909	432	570	275	12.5	< 1	4502	34.7	7.86	47.3	< 1	58.6	< 0.001	0.03	< 0.01	0.36	< 0.05	21.3	< 0.1	0.41	< 0.001	< 0.1	0.06	3.9	20.6	24.5	< 0.2	< 1	4
0604	N	11/4/1991	no data	no data	4.09	7177	460	593	231	11.3	< 1	4396	50	5.4	13.3	< 1	0.13	< 0.001	0.02	< 0.01	0.39	< 0.05	15.1	< 0.1	0.55	< 0.001	< 0.1	0.0059	4.1	16.9	21	< 0.2	< 1	4
0604	N	12/2/1991	no data	no data	4.30	7047	439	564	256	12.6	< 1	4052	52.8	4.12	30.5	< 1	62.5	< 0.001	< 0.01	< 0.01	0.35	< 0.05	19.6	< 0.1	0.42	< 0.001	< 0.1	0.004	6.2	22.7	28.9	< 0.2	< 1	6
0604	N	1/15/1992	6,914.50	3.80	4.11	6837	414	702	222	10	< 1	4554	31.6	3.7	35.4	< 1	57.1	< 0.001	0.02	< 0.01	0.34	< 0.05	20.5	< 0.1	0.41	0.013	< 0.1	0.0601	3.9	20.6	24.5	< 0.2	< 1	4
0604	N	4/8/1992	6,914.40	3.80	4.24	7106	454	654	252	12.2	< 1	4691	40.8	3.75	41.4	< 1	52.4	0.003	0.02	< 0.01	0.36	< 0.05	17.8	< 0.1	0.4	< 0.001	< 0.1	0.003	3.6	15.3	18.9	< 0.2	1.2	3.8
0604	N	7/8/1992	6,914.40	3.70	4.22	6654	495	610	285	12.3	< 1	4669	33.3	3.94	49.2	< 1	73.2	0.001	0.029	< 0.01	0.37	< 0.05	21.8	< 0.1	0.5	< 0.001	< 0.1	0.005	5.6	11.7	17.3	< 0.2	3.4	3.8
0604	N	10/7/1992	6,914.20	4.10	4.04	7185	447	702	273	15.1	< 1	4860	35.5	3.8	15.7	< 1	66.2	< 0.001	< 0.01	< 0.01	0.37	< 0.05	19.9	< 0.1	0.42	< 0.001	< 0.1	0.004	6.8	11.6	18.4	< 0.2	1.9	6.9
0604	N	1/6/1993	6,914.10	4.30	4.45	5855	411	642	236	12	< 1	4042	56.3	2.09	88.6	1.2	45.1	0.002	0.01	< 0.01	0.36	< 0.05	14.5	< 0.1	0.44	0.006	< 0.1	0.009	5.7	7.6	13.3	< 0.2	< 1	6.1
0604	N	4/6/1993	6,914.00	4.40	4.36	7409	414	687	284	10.2	< 1	4639	62	1.83	89.1	< 1	45.5	< 0.001	0.022	< 0.01	0.37	< 0.05	14.5	< 0.1	0.49	0.002	< 0.1	0.006	3.3	12	15.3	< 0.2	1.7	3.8
0604	N	7/13/1993	6,913.50	4.40	4.30	7711	449	816	265	11.9	< 1	4973	62.7	1.45	84.4	1	39.1	< 0.001	< 0.01	< 0.01	0.35	< 0.05	14.2	< 0.1	0.62	0.002	< 0.1	< 0.0003	2.4	6.9	9.3	< 0.2	3.1	3.2
0604	N	10/6/1993	6,913.30	4.50	4.24	6891	475	785	250	10.8	< 1	4744	47.6	1.07	91.8	< 1	30	< 0.001	0.017	< 0.01	0.36	< 0.05	13.5	< 0.1	0.43	< 0.001	< 0.1	0.0059	5.6	2.3	7.9	< 0.2	< 1	9
0604	N	1/6/1994	6,913.10	4.30	4.32	7520	450	691	243	10.3	< 1	4543	52.6	1.19	97.6	1.8	47.8	< 0.001	0.02	< 0.01	0.37	< 0.05	13	< 0.1	0.43	< 0.001	< 0.1	0.003	5.7	8.2	13.9	< 0.2	2.3	18.9
0604	N	4/12/1994	6,912.80	4.40	4.39	7215	423	729	254	10.2	< 1	4838	51.6	2.7	90.7	< 1	39.4	< 0.001	0.02	< 0.01	0.28	< 0.05	14.1	< 0.1	0.41	< 0.001	< 0.1	0.004	7.7	8	15.7	< 0.2	2.3	24.9
0604	N	7/20/1994	6,912.30	4.50	4.33	7069	491	856	232	11.2	< 1	4790	60.6	1.02	89.2	< 1	27.2	< 0.001	< 0.01	< 0.01	0.3	< 0.05	9.63	< 0.1	0.39	< 0.001	< 0.1	0.003	10	13	23	< 0.2	< 1	29.7
0604	N	10/4/1994	6,912.40	4.50	4.38	7504	493	837	280	11.6	< 1	4935	60	1.61	92.5	< 1	41.8	< 0.001	< 0.01	< 0.01	0.4	< 0.05	12.9	< 0.1	0.57	< 0.001	< 0.1	0.006	5.2	5.4	10.6	< 0.2	3.8	13.5
0604	N	1/4/1995	6,912.10	4.40	4.50	7621	490	835	256	12.5	< 1	5023	62.6	1.67	86.9	< 1	26.1	< 0.001	0.01	< 0.01	0.32	< 0.05	10.4	< 0.1	0.42	< 0.001	< 0.1	0.004	5.1	7.7	12.8	< 0.2	< 1	16.8
0604	N	4/5/1995	6,911.90	4.50	4.50	7614	475	850	260	12	0.5	4870	53	1.97	92.5	< 1	30.5	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	12	< 0.1	0.5	< 0.001	< 0.1	0.004	5	7.6	12.6	< 0.2	4	16.6
0604	N	7/6/1995	6,911.40	4.50	4.42	6741	455	760	260	11.5	< 1	4650	60.2	1.83	87.7	< 1	32	< 0.001	0.02	< 0.01	0.35	< 0.05	2.61	< 0.1	0.4	< 0.001	< 0.1	0.0035	3.8	5.7	9.5	< 0.2	< 1	15.3
0604	N	10/3/1995	6,911.50	4.60	4.49	7616	496	877	279	11.5	< 1	5010	58	1.19	87.6	< 1	25.1	0.002	< 0.01	< 0.01	0.32	< 0.05	11.1	< 0.1	0.38	0.031	< 0.1	0.0046	5.3	17.1	22.4	< 0.2	< 1	15.5
0604	N	1/3/1996	6,911.20	4.70	4.43	7223	440	827	277	11.8	< 1	4760	54.5	0.2	96.1	< 1	26.2	< 0.001	< 0.01	< 0.01	0.04	< 0.05	12	< 0.1	< 0.05	0.031	< 0.1	0.0034	3.1	2.2	5.3	< 0.2	2.8	9
0604	N	4/2/1996	6,911.30	4.70	4.58	7638	497	920	260	12	2.5	5180	64.2	0.15	100	< 1	22	< 0.001	< 0.01	< 0.01	0.32	< 0.05	10.8	< 0.1	0.36	< 0.001	< 0.1	< 0.0003	2.1	6.9	9	< 0.2	< 1	5.3
0604	N	7/7/1996	6,910.60	4.40	4.48	7742	452	816	262	12.4	< 1	4610	64.3	0.24	83.2	< 1	26.3	< 0.001	< 0.01	< 0.01	0.36	< 0.05	12.7	< 0.1	0.41	< 0.001	< 0.1	0.0034	2.5	< 1	2.5	< 0.2	< 1	3.1

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0604	N	10/1/1996	6,910.30	4.80	4.52	7690	464	850	265	12.3	0.9	4708	57.9	0.36	88.7	< 1	24.9	< 0.001	< 0.01	< 0.01	0.35	< 0.05	11.4	< 0.1	0.42	0.002	< 0.1	0.0011	2.3	7.4	9.7	< 0.2	< 1	3.3
0604	N	1/22/1997	6,910.20	4.80	4.61	7560	441	897	262	12.4	3.9	4830	57	0.21	74.9	< 1	21.1	0.002	0.01	< 0.01	0.36	< 0.05	11.4	< 0.1	0.4	< 0.001	< 0.1	0.004	2.5	8.8	11.3	< 0.2	< 1	4.7
0604	N	4/8/1997	6,909.90	4.60	4.56	7650	539	458	170	8	3	3370	45	0.19	87.9	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.87	< 0.1	< 0.05	0.038	< 0.1	0.003	5.2	6.8	12	< 0.2	< 1	19.8
0604	N	7/8/1997	6,910.00	5.50	4.60	7740	496	904	275	12.9	3.4	5050	69.2	0.21	83.8	< 1	21.4	< 0.001	0.01	< 0.01	0.35	< 0.05	12.4	< 0.1	0.38	< 0.001	< 0.1	0.003	2.3	7.2	9.5	< 0.2	< 1	4
0604	N	10/7/1997	6,909.60	4.50	4.63	7590	489	868	261	12.4	5.1	4790	62.1	0.38	77.3	< 1	21.9	< 0.001	0.01	< 0.01	0.4	< 0.05	12.6	< 0.1	0.43	< 0.001	< 0.1	0.004	2.3	3.8	6.1	< 0.2	< 1	4.6
0604	N	1/15/1998	6,910.40	4.70	4.61	7530	474	847	271	13	2.9	5100	75.1	0.79	89.8	< 1	18.1	< 0.001	0.01	0.006	0.37	< 0.05	11.8	< 0.1	0.41	< 0.001	< 0.1	0.0032	2.1	6	8.1	< 0.2	< 1	3.1
0604	N	4/7/1998	6,909.70	4.50	4.73	7570	489	773	255	11.8	7.4	4300	60.9	0.35	87.4	< 1	16.9	< 0.001	0.01	0.007	0.34	< 0.05	10.7	< 0.1	0.39	< 0.001	< 0.1	0.0031	3.3	7	10.3	< 0.2	< 1	4.6
0604	N	7/7/1998	6,908.90	4.90	4.64	7600	471	860	274	12.5	4.1	4600	61.5	0.46	80.7	< 1	20.8	< 0.001	0.01	0.006	0.36	< 0.05	12.5	< 0.1	0.41	< 0.001	< 0.1	0.0031	1.6	4.3	5.9	< 0.2	< 1	3.7
0604	N	10/6/1998	6,908.90	4.55	4.63	7760	463	874	287	13.7	3.7	4860	61.6	0.78	89.3	< 1	18.7	< 0.001	0.01	0.006	0.37	< 0.05	12	< 0.1	0.45	< 0.001	< 0.1	0.0078	2.4	4.1	6.5	< 0.2	3.4	3.4
0604	N	1/5/1999	6,908.90	4.70	4.60	7830	420	851	257	12.7	3	5100	64.9	0.45	70.7	< 1	20.2	< 0.001	0.01	0.011	0.37	< 0.05	12.8	< 0.1	0.4	< 0.001	< 0.1	0.0033	2.4	7.4	9.8	< 0.2	4.3	4.3
0604	N	4/6/1999	6,908.40	4.60	4.69	7980	446	893	259	12.2	5	4740	62.7	0.83	92.4	< 1	20.4	< 0.001	0.01	0.015	0.41	< 0.05	12.6	< 0.1	0.44	< 0.001	< 0.1	0.0034	4	7.8	11.8	< 0.2	3.2	3.2
0604	N	7/13/1999	6,907.80	4.60	4.61	8030	479	964	292	16.3	3	5120	55.3	0.57	73.2	< 1	15.7	< 0.001	0.01	0.009	0.42	< 0.05	14	< 0.1	0.62	< 0.001	< 0.1	0.0071	3	5.2	8.2	< 0.2	3.7	3.7
0604	N	10/5/1999	6,908.60	4.42	4.64	8150	523	1120	280	12.5	4	6000	50.9	0.53	58.6	< 1	27	< 0.001	< 0.01	0.015	0.53	< 0.05	16.1	< 0.1	0.46	< 0.001	< 0.1	0.0033	2.5	2.9	5.4	< 0.2	< 1	4.3
0604	N	1/4/2000	6,908.20	4.60	4.64	8180	397	883	231	12.8	4	4500	41.9	0.24	67.9	< 1	20	< 0.001	0.01	0.01	0.38	< 0.05	11.2	< 0.1	0.46	< 0.001	< 0.1	0.0032	2.3	6	8.3	< 0.2	< 1	4.7
0604	N	5/3/2000	6,909.00	4.60	4.75	7500	416	808	264	14.2	6	4300	56.5	0.13	84.6	1.4	6.5	< 0.001	< 0.01	0.022	0.23	< 0.05	8.81	< 0.1	0.26	< 0.001	< 0.1	0.0027	4.3	6.6	10.9	< 0.2	< 1	4.8
0604	N	7/11/2000	6,908.80	4.57	4.67	7380	460	837	258	11.9	5	4470	53.7	0.33	90.2	2.4	14.5	< 0.001	0.01	0.011	0.31	< 0.05	10.1	< 0.1	0.31	< 0.001	< 0.1	0.0022	2.5	6	8.5	< 0.2	< 1	4.2
0604	N	10/3/2000	6,908.90	4.68	4.69	7220	455	830	247	13	6	4250	48.3	0.23	84.9	4.2	10.5	< 0.001	< 0.01	0.005	0.26	< 0.05	8.17	0.23	0.25	< 0.001	< 0.1	0.002	1.9	7.5	9.4	< 0.2	< 1	4.3
0604	N	1/10/2001	6,909.00	4.94	4.74	7280	450	790	222	11.6	7	4390	61.7	0.23	75.9	2.5	14	< 0.001	< 0.01	< 0.005	0.29	< 0.05	9.38	< 0.1	0.35	< 0.001	< 0.1	0.0019	2.1	7.6	9.7	< 0.2	< 1	3.2
0604	N	4/3/2001	6,908.90	4.80	4.77	7260	533	916	229	11.3	8	4730	57.9	0.28	75.8	4.1	12.8	< 0.001	< 0.01	< 0.005	0.32	< 0.05	9.52	< 0.1	0.39	< 0.001	< 0.1	0.0018	1.9	7.1	9	< 0.2	< 1	3.9
0604	N	7/17/2001	6,908.45	4.89	4.73	7470	424	782	246	12.5	7	4270	66.9	0.47	73.1	2.8	14.1	< 0.001	< 0.01	< 0.005	0.29	< 0.05	9.9	< 0.1	0.36	< 0.001	< 0.1	0.002	2.2	6	8.2	< 0.2	< 1	4.1
0604	N	10/2/2001	6,908.50	4.78	4.70	7420	440	820	217	12.8	4.9	4100	77.8	0.27	70	3	12.5	< 0.001	< 0.01	< 0.005	0.26	< 0.05	9.45	< 0.1	0.35	< 0.001	< 0.1	0.0014	3.9	7.6	11.5	< 0.2	< 1	4.3
0604	N	1/14/2002	6,908.40	4.86	4.80	7390	516	882	235	13.6	6.7	4540	67.5	0.13	66	3	15.3	< 0.001	0.01	0.006	0.32	< 0.05	11	< 0.1	0.4	< 0.001	< 0.1	0.0016	2.9	9.3	12.2	< 0.2	< 1	4.5
0604	N	4/9/2002	6,908.10	4.70	4.73	7500	446	790	261	12.2	6.7	4390	58.1	0.23	70.1	< 1	13.2	< 0.001	< 0.01	0.007	0.33	< 0.05	11.2	< 0.1	0.4	< 0.001	< 0.1	0.0016	2.6	4.5	7.1	< 0.2	< 1	3.3
0604	N	7/16/2002	6,908.02	4.84	4.78	7500	439	805	271	13.5	6.7	4460	65	0.66	71.7	< 1	11.4	< 0.001	< 0.01	< 0.005	0.28	< 0.05	10.4	< 0.1	0.28	< 0.001	< 0.1	< 0.0003	2.9	3.5	6.4	< 0.2	< 1	5.3
0604	N	10/9/2002	6,907.87	5.36	4.79	5790	431	775	258	11.4	7.3	4380	56.5	0.64	68.6	3.2	14.6	< 0.001	< 0.01	< 0.005	0.26	< 0.05	9.67	< 0.1	0.3	< 0.001	< 0.1	0.0018	3.3	5.6	8.9	< 0.2	< 1	9.6
0604	N	1/8/2003	6,908.03	5.20	4.76	7440	423	783	230	10.7	6.7	4250	48.4	0.88	61	3.8	12.9	< 0.001	< 0.01	0.006	0.29	< 0.05	10.9	< 0.1	0.32	< 0.001	< 0.1	0.0019	3.6	6.8	10.4	< 0.2	< 1	4.7
0604	N	4/14/2003	6,908.00	4.73	4.64	7360	454	860	293	15.3	6.7	4690	55.8	0.78	71	< 1	11.8	< 0.001	< 0.01	< 0.005	0.26	< 0.05	9.91	< 0.1	0.28	< 0.001	< 0.1	0.0019	2.8	15.3	18.1	< 0.2	< 1	8.4
0604	N	7/9/2003	6,907.72	4.63	4.75	7470	440	794	261	13.3	6.7	4500	57.7	1.08	66	2.4	11.7	< 0.001	< 0.01	0.006	0.29	< 0.05	11.9	< 0.1	0.32	< 0.001	< 0.1	0.0008	1.8	8.2	10	< 0.2	< 1	4
0604	N	10/8/2003	6,907.76	4.72	4.79	7450	427	714	268	10.6	8.5	4320	50.5	0.74	68	2.8	13.7	< 0.001	< 0.01	< 0.005	0.31	< 0.05	11.3	< 0.1	0.34	< 0.001	< 0.1	0.0023	1.4	3.5	4.9	< 0.2	< 1	5.8
0604	N	1/7/2004	6,907.70	4.77	4.81	7290	495	873	283	12.8	7.9	4770	62.6	0.75	69.8 D	2.3	14.1	< 0.001	< 0.01	< 0.005	0.32	< 0.05	13.5	< 0.1	0.33	< 0.001	< 0.1	0.0018 D	1.9	4.9	6.8	< 0.2	< 1.0	5.8
0604	N	4/7/2004	6,907.50	5.01	4.91	7340	469	830	287	12.2	3.2	4550 D	59.8	0.98	72.6 D	3.4	13.2	< 0.001	< 0.01	0.005	0.3	< 0.05	12.1	< 0.1	0.35	0.007	< 0.1	0.0018 D	1.5	4.7	6.2	< 0.2	< 1	5.8
0604	N	7/14/2004	6,907.05	4.72	4.56	7320	455	796	282	12.6	9	4580 D	61.8	0.54	65.9 D	2.2	12.2	< 0.001	< 0.01	0.007	0.3	< 0.05	11.1	< 0.1	0.3	< 0.001	< 0.1	0.0017 D	2.4	1.9	4.3	< 0.2	< 1.0	3.3
0604	N	10/6/2004	6,907.05	4.74	4.77	7350	440 D	802 D	292	12.2	10	4390 D	59	0.45	65.8 D	2.7	11.3	< 0.001	< 0.01	< 0.005	0.27	< 0.05	11	< 0.1	0.18	< 0.001	< 0.1	0.0017 D	2	5.1	7.1	< 0.2	< 1.0	3.4
0604	N	1/5/2005	6,907.04	4.95	4.66	7480	475 D	856 D	284	12.3	7	4770 D	58	0.62	66 D	7	11.1	< 0.001	< 0.01	< 0.005	0.31	< 0.05	11.1	< 0.1	0.35	< 0.001	< 0.1	0.0017	4	3.9	7.9	< 0.2	< 1.0	13.4
0604	N	4/6/2005	6,906.60	4.96	4.65	7050	454	803	296	12	6	4550	58	0.49	54	3.8	11.2	< 0.001	< 0.01	< 0.005	0.24	< 0.05	11.9	< 0.1	0.33	< 0.001	< 0.1	0.0018	4.3	5.6	9.9	< 0.2	< 1.0	1.7
0604	N	7/13/2005	6,906.40	4.94	4.76	7220	472 D	824 D	278	11.3	2	4630 D	57	0.49	60 D	3	11.1	< 0.001	< 0.01	< 0.005	0.28	< 0.05	11.7	< 0.1	0.34	< 0.001	< 0.1	0.0015	4	5.6	9.6	< 0.2	< 1.0	3.3
0604	N	10/5/2005	6,906.50	4.93	4.85	7260	450 D	854 D	286	12.4	12	4600 D	58	0.46	60 D	2.8	9.5	< 0.001	< 0.01	< 0.005	0.27	< 0.05	11.1	< 0.1	0.34	< 0.001	< 0.1	0.0015	2.2	5.7	7.9	< 0.2	< 1.0	4
0604	N	1/11/2006	6,906.34	5.02	5.07	7160	430 D	813 D	283	12.2	76	4600 D	58	1.01	75 D	3.2	9.3	< 0.001	< 0.01	< 0.005	0.26	< 0.05	11.2	< 0.1	0.31	0.004	< 0.1	0.0013	1.8	3.5	5.3	< 0.2	< 1.0	4.6
0604	N	4/5/2006	6,906.40	4.89	5.33	7150	452 D	827 D	264	12.3	3	4320 D	61	2.4	74 D	3	10	< 0.001	< 0.01	< 0.005	0.28	< 0.05	11.7	< 0.1	0.33	0.004	< 0.1	0.0014 D	1.1	< 1.0	1.1	< 0.2	< 1.0	2.9
0604	N	7/19/2006	6,905.70	4.95	4.91	7170	469 D	810 D	292	12.6	10	4400 D	60	0.41	69 D	2.5	8	< 0.001	< 0.01	< 0.005	0.25	< 0.05	10.3	< 0.1	0.29	< 0.001	< 0.1	0.0013	1.4	4.7	6.1	< 0.2	< 1.0	1.7
0604	N	10/4/2006	6,905.67	4.88	5.06	7170	437 D	792 D	277	12.1	4	4230 D	57	0.54	74 D	3.03	8.1	< 0.001	< 0.01	< 0.005	0.26	< 0.05	10.8	< 0.1	0.32	< 0.001	< 0.1	0.0019	1.5	7.3	8.8	< 0.2	< 1	2.2
0604	N	1/10/2007	6,905.69	5.00	4.99	7270	417 D	779 D	256	11.6	20	4460 D	58	0.32	68 D	5.24	5.8	<0.001	<0.01	<0.005	0.23	<0.05	10.4	<0.1	0.28	<0.001	<0.1	0.0011	2.7	4.2	6.9	<0.2	<1	1.9
0604	N	4/11/2007	6,905.64	5.02	5.00	7240	447 D	833 D	271	13.4	12	4600 D	62	0.1	76 D	5.92	6.3	<0.001	<0.01	<0.005	0.26	<0.05	10.2	<0.1	0.3	<0.001	<0.1	0.001	1.7	6	7.7	<0.2	<1	4.2
0604	N	7/11/2007	6,905.10	4.94	4.89	6900	470 D	853 D	280	12.1	5	4770 D	61	0.31	78 D	4.08	4.6	<0.001	<0.01	<0.005	0.25	<0.05	10.2	<0.1	0.31	<0.001	<0.1	0.001	2.8	4.4	7.2	<0.2	<1	1.8
0604	N	10/3/2007	6,905.13	4.86	5.11	7160	418 D	794 D	287 D	13.7	5	4410 D	82 D	0.24	75 D	7.68	5.7	<0.001	<0.01	<0.005	0.26	<0.05	10.8	<0.1	0.29	<0.001	<0.1	0.0008	1.7	2.9	4.6	<0.2	<1	6.1
0604	N	1/16/2008	6,905.15	5.1	5.35	6880	435 D	801 D	286 D	16.3	5	4160 D	84 D	0.13	76 D	6.44	5.1	< 0.001	< 0.01	< 0.005	0.24	< 0.05	9.73	< 0.1	0.29	< 0.001	< 0.1	0.0009	2.9	4.3	7.2	< 0.2	< 1	2.9
0604	N	4/9/2008	6,905.15	5.18	5.02	6880	480 D	903 D	332 D	13.6 D	3	4780 D	57	< 0.05	113 D	6.64	5.4	0.002	< 0.01	< 0.005	0.23	< 0.05	10.3	< 0.1	0.29	< 0.001	< 0.1	0.0009	1.5	5.4	6.9	1.1	-1.3 U	12
0604	N	7/9/2008	6,904.60	4.95	5.24	6880	466 D	850 D	308 D	12.5	3	4790 D	62	< 0.05	118 D	7.64	3.3	< 0.003	< 0.01	< 0.005	0.23	< 0.05	10.6	< 0.1	0.29	< 0.001	< 0.1	0.0008	1.2	5.7	6.9	-0.1 U	1.8 U	1.9
0604	N	10/13/2008	6,904.48	4.98	5.19	7060 H	487	880	310 D	13	5	4800 D	53	0.2	95.8 D	5.36	3.6	< 0.001	< 0.01	< 0.005	0.22	< 0.05	9.12	< 0.1	0.27	< 0.001	< 0.1	0.0014	0.93	5	5.93	1	-3 U	3.7
0604	N	1/14/2009	6,904.30	5.11	5.34	7330	440	823	311	12	<1	4220 D	49	<0.05	104 D	9.44	3.8	<0.001	<0.01	<0.005	0.24	<0.05	9.8	<0.1	0.28	<0.001	<0.1	0.0007	1.4	5.8	7.2	-0.2 U	-1 U	2.1
0604	N	4/8/2009	6,904.40	5.05	5.19	6980	426 D	788 D	296 D	12	23	4620 D	62	<0.05	74.9 D	7.76	4.2	<0.001	<0.01	<0.005	0.22	<0.05	9.68	<0.1	0.29	<0.001	<0.1	0.0006 D	1.2	4.4	5.6	-0.4 U	-1 U	2.6
0604	N	7/8/2009	6,904.00	5.01	5.19	7160	473 D	798	294 D	12	23 B	4810 D	53	0.19	68 D	5.4	3.3	<0.001	<0.01	<0.005	0.22	<0.05	9.56 D	<0.1	0.26	<0.001	<0.1	0.0007	1.9	6.2	8.1	0.2 U	2.2 U	3.6
0604	N	10/6/2009	6,904.05	5.12	5.79	7090	436 D	808	286 D	12	10	4360 D	60	0.14	72 D	6.8	2.8	<0.001	<0.01	<0.005	0.19	<0.05	8.55	<0.1	0.26	<0.001	<0.1	0.0009	1.3	4.8	6.1	0.08 U	-1 U	2.6
0604	N	1/6/2010	6,903.80	6.46	5.6	7370 D	440 D	806	305	12	8	4970 D	55	0.24	67 D	6.44	2.8	<0.001	<0.01	<0.005	0.23	<0.05	9.4	<0.1	0.28	<0.001	<0.1	0.0006	1.1	5.1	6.2	0.1 U	0.7 U	2.4
0604	N	4/7/2010	6,903.60	5.32	5.34	7120 D	462 D	820	322 D	13	11	4850 D	59	0.16	70 D	3.2	2.9	<0.001	<0.01	<0.005	0.2	<0.05	8.44	<0.1	0.26	0.002	<0.1	0.0006	2.1	5	7.1	-0.02 U	-1 U	2.2
0604	N	7/14/2010	6,903.45	5.37	5.43	7270 D	463 D	836	306 D	12	7	4780 D	56 D	0.29	63 D	1.78	2.3	<0.001	<0.01	<0.005	0.2	<0.05	8.2	<0.1	0.26	<0.001	<0.1	0.0004	1.8	4.1	5.9	0.04 U	1.5 U	2.4
0604	N	10/6/2010	6,903.35	5.24	5.67	6520 D	452	799	307	12	26	4590 D	55 D	0.35	67 D	9	2.4	<0.001	<0.01	<0.005	0.19	<0.05	7.52	<0.1	0.27	<0.001	<0.1	0.0007	1.3	5	6.3	0.05 U	1.0 U	2.3
0604	N	1/5/2011	6,903.25	6.4	5.53	6880 D	444 D	794	292 D	12	14	4620 D	59 D	0.37	65 D	5.48	1.9	<0.001	<0.01	<0.005	0.2	<0.05	8.2	<0.1	0.25	<0.001	<0.1	0.0005	1.4	5.5	6.9	-0.03 U	-0.3 U	2.1
0604	N	4/5/2011	6,903.32	5.56	5.5	7190 D	456	809	314 D	13	9	4830 D	56 D	0.11	72 D	4.56	1.7	<0.001	<0.01	<0.005	0.2	<0.05	8.09	<0.1	0.26	<0.001	<0.1	0.0005 B	1.1	4.5	5.6	0.09 U	-0.03 U	1.7
0604	N	7/13/2011	6,903.08	5.48	5.39	6990 D	456	825	324	12	17	4690 D	55 D	<0.1	69 D	1.98	2.3	<0.001	<0.01	<0.005	0.19	<0.05	7.6	<0.1	0.28	<0.001	<0.1	0.0007	0.96	4.1	5.06	0.07 U	0.007 U	1.7

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0604	N	10/5/2011	6,903.10	5.35	5.62	6980 D	440	786	306	12	17	4590 D	57 D	<0.1	70 D	5.24	1.2	0.003	<0.01	<0.005	0.17	<0.05	7.03	<0.1	0.23	<0.001	<0.1	0.0004	1.6	6.3	7.9	0.07 U	-0.8 U	1.6
0604	N	1/4/2012	6,902.50	5.3	5.48 H	7100 D	506	842	321	14	18	4440 D	56 D	<0.05	69 D	2.69	2	<0.001	<0.01	<0.005	0.16	<0.05	6.41	<0.1	0.24	<0.001	<0.1	0.0005	1.5	3.6	8.7	0.02 U	1.1	1.6
0604	N	4/4/2012	6,902.77	5.35	5.46 H	7140 D	410	733	290	13	12	4630 D	56 D	<0.05	71 D	1.08	1.8	<0.001	<0.01	<0.005	0.17	<0.05	6.75	<0.1	0.26	<0.001	<0.1	<0.0003	1.5	3.5	8.5	<0.004 U	0.5 U	2.8
0604	N	7/11/2012	6,902.30	5.24	5.48 H	7450	444	817	292	11	17	4760 D	62 D	<0.05	71 D	5.96	0.9	<0.001	0.001	<0.005	0.13	<0.001	5.94	<0.1	0.21	<0.001	<0.1	0.0004	1.3	4.4	10.1	0.06 U	0.8 U	1.3
0604	N	10/10/2012	6,902.35	5.31	5.40 H	6880	473	794	302 D	13	29	4620 D	62 D	<0.05	68 D	6.6	1.6	<0.001	0.002	<0.005	0.15	<0.001	5.36	<0.1	0.25	0.003	<0.1	0.0004	1.4	4.6	6	0.05 U	0.4 U	1.3
0604	N	1/15/2013	6,902.28	5.27	5.44 H	6860	468	862	324 D	13	26	4580 D	59 D	0.05	67 D	5.84	1.3	<0.001	0.002	<0.005	0.13	<0.001	5.42	<0.1	0.22	<0.001	<0.1	0.0003	1.4	4.3	5.7	0.005 U	0.1 U	1.3
0604	N	4/3/2013	6,902.18	5.34	5.49 H	6810	457	840	308	12	26	4470 D	63 D	<0.05	70 D	6.8	1	<0.001	0.001	<0.005	0.13	<0.001	5.06	<0.1	0.22	<0.001	<0.1	0.0004	1.3	3.9	5.2	0.03 U	-0.3 U	1.4
0604	N	7/10/2013	6,901.89	5.19	5.55 H	7150	447	832	297	11	55	4570 D	60 D	<0.05	72 D	5.88	0.9	<0.001	0.001	<0.005	0.13	<0.001	4.44	<0.1	0.2	<0.001	<0.1	0.0003	0.89	3.7	4.59	0.05 U	0.2 U	2.5
0604	N	10/2/2013	6,901.92	5.31	5.54 H	6850	472	836	322 D	12	29	4450 D	63 D	<0.05	68 D	6.76	1.3	<0.001	0.001	<0.005	0.12	<0.001	4.68	<0.1	0.23	<0.001	<0.1	0.0004	0.87	2.9	3.77	-0.02 U	0.3 U	2.1
0604	N	1/8/2014	6,901.86	5.53	5.6	6910	447	796	298	11	26	4460	64	<0.05	63	6.68	0.3	<0.001	<0.001	<0.005	0.11	<0.001	4.47	<0.1	0.2	<0.001	<0.1	0.0003	1.3	5.7	7	0.02 U	0.3 U	5.5
0604	N	4/1/2014	6,901.95	5.73	5.75 H	7240	463	807	317 D	12	20	5100 D	74 D	<0.05	75 D	7.92	1.1	<0.001	0.002	<0.005	0.12	<0.001	4.02	<0.1	0.2	<0.001	<0.1	0.0004	1.3	4	5.3	0.02 U	0.6 U	4.1
0604	N	7/8/2014	6,901.45	5.89	5.45 H	7000	458	866	332 D	12	28	4650 D	59 D	<0.05	64 D	10.8	0.9	<0.001	0.001	<0.005	0.09 D	<0.001	3.83	<0.1	0.18	<0.001	<0.1	0.0005	1.1	3.9	5	0.009 U	0.3 U	1.7
0604	N	10/7/2014	6,901.43	5.44	5.54 H	7060	435	798	287	10	28	4710 D	68 D	<0.05	56 D	6.64	0.9	<0.001	0.001	<0.005	0.1	0.001	3.74	<0.1	0.19	<0.001	<0.1	0.0004	2.1	5.4	7.5	0.02 U	0.3 U	1.6
0604	N	1/6/2015	6,901.22	5.55	5.45 H	7000	449	826	300	11	30	4620 D	72 D	0.11	61 D	9.24	0.9	<0.001	0.002	<0.005	0.1	<0.001	3.81	<0.1	0.18	<0.001	<0.1	0.0003	1.3	3.7	5	0.05 U	0.1 U	3.2
0604	N	4/7/2015	6,901.31	5.49	5.53 H	7230	452	820	305	11	30	4530 D	75 D	<0.05	64 D	8.24	0.3	<0.001	<0.001	<0.005	0.1	<0.001	3.61	<0.1	0.19	<0.001	<0.1	<0.0003	1.7	5.4	7.1	0.04 U	-0.6 U	10.4
0604	N	7/7/2015	6,901.08	5.54	5.44 H	7220	420	760	271	13	31	4520 D	74 D	<0.05	60 D	15.8	1	<0.001	0.001	<0.005	0.1	<0.001	3.68	<0.1	0.17	<0.001	<0.1	<0.0003	1.2	2.7	3.9	-0.006 U	0.4 U	3.5
0604	N	10/6/2015	6,900.90	5.41	5.46 H	7210	435	809	301	11	28	4660 D	80 D	<0.05	60 D	8.08	0.9	<0.001	0.001	<0.005	0.09 D	<0.001	3.73	<0.1	0.18	<0.001	<0.1	<0.0003	1.9	8.6	10.5	0.05 U	0.2 U	6.1
0604	N	1/5/2016	6,900.99	5.53	5.50 H	7070	447	850	307	12	29	4630 D	82 D	<0.05	64 D	12.8	1.1	<0.001	0.001	<0.005	0.09	<0.001	3.68	<0.1	0.17	<0.001	<0.1	<0.0003	1.3	4.4	5.7	0.1 U	-0.04 U	7.8
0604	N	4/5/2016	6,900.61	5.39	5.57 H	7050	453	810	300	11	29	4710 D	83 D	<0.05	60 D	7.84	1	<0.001	0.001	<0.005	0.1	<0.001	3.86	<0.1	0.21	<0.001	<0.1	0.0006	1.7	3.4	5.1	0.06 U	0.0 U	4
0604	N	7/12/2016	6,900.54	5.47	5.49 H	7290	444	822	307	12	31	4510 DH	94 D	<0.05	65 D	11.8	0.5	<0.001	<0.001	<0.005	0.1	0.001	3.63	<0.1	0.18	<0.001	<0.1	<0.0003	1.1	6.5	7.6	0.09 U	0.2 U	3.9
0604	N	10/4/2016	6,900.63	5.50	5.57 H	7120	461	836	310 D	11	30	4800 D	87 D	<0.05	63 D	13	0.6	<0.001	0.005	<0.005	0.09	<0.001	3.85	<0.1	0.2	<0.001	<0.1	0.0006 B	1.4	4.2	5.6	0.03 U	0.4 U	4.5
0604	N	1/10/2017	6,900.45	5.48	5.78 H	7060 D	466	812	302	12	29	4730 D	90 D	<0.05	65 D	11	0.7	<0.001	0.001	<0.005	0.1	0.001	4.09	<0.1	0.2	<0.001	<0.1	0.0003	1.1	2	3.1	-0.02 U	0.3 U	6.6
0604	N	4/4/2017	6,900.37	5.34	5.57 H	6830 D	447	811	310 D	12	29	4890 D	96 D	<0.05	66 D	4.6	0.8	<0.001	0.001	<0.005	0.09	<0.001	3.6	<0.1	0.18	<0.001	<0.1	<0.0003	0.96	4.3	5.26	0.01 U	-0.1 U	2.4
0604	N	7/11/2017	6,900.07	5.51	5.62 H	6930 D	480	863	321 D	12	29	4430 D	94 D	<0.05	59.5 D	12	0.6	<0.001	0.001	<0.005	0.1	<0.001	3.86	<0.1	0.21	<0.001	<0.1	0.0007	1	2.5	3.5	0.1 U	0.6 U	1
0604	N	10/3/2017	6,900.00	5.38	5.43 H	6850 D	445	803	308 D	12	31	4380 D	96 D	<0.05	55.5 D	13	1	<0.001	<0.001	<0.005	0.11	<0.001	4.04	<0.1	0.22	<0.001	<0.1	0.0004	1.3	5.8	7.1	0.0009 U	0.6 U	1.9
0604	N	1/9/2018	6,899.77	5.55	5.65 H	7140 D	439	811	309 D	11	26	4830 D	98 D	<0.05	56.5 D	17	0.14 D	<0.001	<0.001	0.002	0.112	<0.001	4.19 D	<0.001	0.204	<0.001	<0.01	<0.0003	1.1	5.4	6.5	0.2	-0.8 U	1.9
0604	N	4/3/2018	6,899.86	5.37	5.53 H	7380 D	452	781	302 D	11	28	4920 D	105 D	<0.05	62 D	12	0.87	<0.001	<0.001	0.002	0.097	<0.001	4.06	<0.001	0.195	<0.001	<0.01	<0.0003	1.3	4.2	5.5	0.03 U	1.0 U	2
0604	N	7/10/2018	6,899.53	5.38	5.58 H	7290 D	419	741	291	10	28	4540 D	99 D	<0.05	65.0 D	13	0.56	0.001	<0.001	0.001	0.085	<0.001	3.52	<0.001	0.185	0.001	<0.01	<0.0003	1.1	7.1	8.2	0.08 U	0.3 U	2.1
0604	N	10/2/2018	6,899.56	5.50	5.57 H	7190 D	462	816	308 D	11	30	4670 D	101 D	<0.05	61.0 D	13	0.28	<0.001	<0.001	0.001	0.085	<0.001	3.39	<0.001	0.172	<0.001	<0.01	<0.0003	1	5.6	6.6	-0.01 U	0.5 U	1.4
0604	N	1/8/2019	6,898.85	5.57	5.56 H	7160 D	460	839	327 D	12	28	4700 D	102 D	<0.05	56 D	14	0.27	no data	<0.001	0.002	0.092	<0.001	3.74	<0.001	0.22	no data	<0.01	<0.0003	1.4	4.6	6	0.006 U	-0.3 U	4
0604	N	4/9/2019	6,899.08	5.46	5.62 H	7270 D	404	714	267	10	28	4790 D	109 D	<0.05	57 D	14	0.81	0.001	<0.001	0.002	0.102	<0.001	4.03	<0.001	0.202	0.045	<0.01	<0.0003	1.3	3.1	4.4	-0.01 U	0.6 U	2.1
0604	N	7/25/2019	6,898.68	5.41	5.52 H	7310 DH	463 D	831	317	11	28	4680 D	111D	<0.05	58.8 D	16	0.62 D	<0.001	0.001	0.001	0.092	<0.001	4.24 D	<0.001	0.194	0.052	<0.01	0.0004	1.2	7.9	9.1	0.02 U	0.2 U	1.5
0604	N	10/1/2019	6,898.67	5.34	5.5 H	7150 DH	439	765	299	13	29 H	4650 D	109 D	<0.05	59 D	16	1.2 L	<0.001	0.002	0.002	0.106	<0.001	4.57 D	<0.001	0.197	0.053	<0.01	0.0004	1.3	4.1	5.4	0.03 U	-0.08 U	2.4
0614	N	7/23/1989	6,929.30	6.60	6.84	6868	697	672	491	9.8	1501	3485	381	51	99	82	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.13	< 0.1	< 0.05	0.003	< 0.1	0.0624	2.9	3.4	6.3	0.6	< 1	8.9
0614	N	10/12/1989	6,929.00	6.50	6.98	6734	624	612	479	11.6	1540	3002	377	38.6	126	59	0.18	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.08	< 0.01	< 0.05	0.02	< 0.1	0.064	0.6	4.9	5.5	< 0.2	2.1	1.5
0614	N	1/10/1990	6,928.00	6.40	6.80	6892	609	640	491	10.6	1586	3121	359	69	108	100	< 0.1	< 0.001	< 0.05	0.01	< 0.01	< 0.05	0.06	< 0.1	< 0.05	0.002	< 0.1	0.064	0.6	< 1	0.6	< 0.2	< 1	0.9
0614	N	4/5/1990	6,927.50	6.40	7.06	6877	622	680	492	11.2	1632	3277	350	94	107	164	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.09	< 0.1	< 0.05	0.003	< 0.1	0.045	1	< 1	1	< 0.2	< 1	1.7
0614	N	7/3/1990	6,926.60	6.30	6.86	6754	640	619	429	10.9	1492	2996	341	111	151	152	0.13	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	0.07	< 0.1	< 0.05	0.002	< 0.1	0.0611	0.9	1.6	2.5	< 0.2	< 1	< 1
0614	N	10/3/1990	6,926.30	6.30	7.23	6567	585	577	507	14.1	1362	2894	334	76.6	106	176	0.1	0.005	< 0.05	< 0.01	< 0.01	< 0.05	0.08	< 0.1	< 0.05	< 0.001	< 0.1	0.036	0.4	3	3.4	< 0.2	< 1	< 1
0614	N	1/15/1991	6,926.40	6.40	6.96	6633	647	623	478	9.6	1412	3253	322	68	125	170	0.2	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.09	< 0.1	< 0.05	0.001	< 0.1	0.0425	1.9	< 1	1.9	< 0.2	1.3	2.3
0614	N	4/2/1991	6,926.20	6.40	7.18	6539	619	495	420	10.1	1257	3165	322	78.3	131	254	0.11	< 0.001	< 0.01	< 0.01	< 0.02	< 0.05	0.08	< 0.1	< 0.05	< 0.002	< 0.1	0.0589	2.7	1.8	4.5	2.2	1.3	3
0614	N	7/17/1991	6,925.90	6.40	7.49	6970	573	551	443	9.7	1680	3645	327	69.4	169	380	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.1	< 0.1	< 0.05	0.002	< 0.1	0.064	0.5	< 1	0.5	< 0.2	< 1	< 1
0614	N	9/4/1991	no data	no data	6.94	7610	624	634	446	10.3	1629	4105	303	116	83.2	486	0.22	< 0.001	< 0.01	< 0.01	0.03	< 0.05	0.17	< 0.1	< 0.05	0.002	< 0.1	0.0631	0.5	5.4	5.9	< 0.2	< 1	< 1
0614	N	10/15/1991	6,925.30	6.30	7.15	7145	664	526	418	10	1515	3239	313	53.8	119	361	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.11	< 0.1	< 0.05	0.003	< 0.1	0.076	0.6	5.5	6.1	< 0.2	< 1	< 1
0614	N	11/4/1991	no data	no data	6.97	7026	614	490	436	10.5	1516	3449	308	87.3	97.6	464	0.32	< 0.001	< 0.01	< 0.01	0.04	< 0.05	0.18	< 0.1	< 0.1	0.002	< 0.1	0.0472	0.9	3.7	4.6	< 0.2	< 1	< 1
0614	N	12/2/1991	no data	no data	7.38	7264	610	559	425	10.7	1577	3197	287	79.5	133	400	0.42	< 0.001	< 0.01	< 0.01	0.02	< 0.05	0.15	< 0.1	0.06	0.002	< 0.1	0.05	1.2	1.3	2.5	< 0.2	< 1	1
0614	N	1/15/1992	6,925.20	6.30	7.34	7026	584	645	449	10.1	1268	3376	287	94.9	123	525	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.12	< 0.1	< 0.05	0.059	< 0.1	0.039	0.4	< 1	0.4	< 0.2	< 1	< 1
0614	N	4/8/1992	6,925.10	6.30	7.48	7207	691	601	486	10.8	1568	3603	279	101	70.2	471	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	0.14	< 0.1	< 0.05	0.004	< 0.1	0.051	0.8	4	4.8	< 0.2	< 1	< 1
0614	N	7/8/1992	6,924.80	6.20	7.51	6583	697	496	640	11.3	1512	3249	274	79.8	116	303	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.17	< 0.1	< 0.05	0.003	< 0.1	0.05	1	3.4	4.4	< 0.2	< 1	1.1
0614	N	10/7/1992	6,924.70	6.40	8.08	6914	661	577	566	12.9	803	3248	273	48.6	15.8	426	0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.15	< 0.1	< 0.05	0.005	< 0.1	0.078	1.5	4.1	5.6	< 0.2	1.9	1.8
0614	N	1/6/1993	6,924.50	6.40	7.04	6464	626	563	487	10.8	1459	3008	270	86.1	117	527	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.19	< 0.1	< 0.05	0.012	< 0.1	0.082	3.7	1.4	5.1	< 0.2	< 1	3.9
0614	N	4/6/1993	6,924.40	6.50	7.26	7340	616	607	521	10.1	1620	3518	288	97.4	47.5	400	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.003	< 0.1	0.072	1.9	5.1	7	< 0.2	< 1	2.1
0614	N	7/13/1993	6,923.90	6.50	7.11	7485	651	607	506	10.7	1454	3370	262	103	146	553	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.16	< 0.1	< 0.05	0.008	< 0.1	0.066	1.6	3.2	4.8	< 0.2	2.3	1.9
0614	N	10/6/1993	6,923.60	6.70	6.95	7439	642	660	476	10.8	1431	3505	244	105	166	667	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	0.17	< 0.1	< 0.05	0.002	< 0.1	0.037	2.8	< 1	2.8	< 0.2	1.8	2.9
0614	N	1/6/1994	6,923.40	6.70	7.14	7380	594	565	485	10	1221	3435	242	91.4	192	617	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.17	< 0.1	< 0.05	< 0.001	< 0.1	0.048	1.6	< 1	1.6	< 0.2	< 1	2.6
0614	N	4/12/1994	6,923.10	6.60	6.96	7496	576	650	446	11.5	1174	3743	242	142	170	866	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.21	< 0.1	< 0.05	0.004	< 0.1	0.052	1.5	< 1	1.5	< 0.2	5.2	1.7
0614	N	7/20/1994	6,922.70	6.50	7.28	7490	641	748	425	13.5	1322	4076	231	140	140	799	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.054	2.8	1.9	4.7	< 0.2	< 1	3.8
0614	N	10/4/1994	6,922.60	6.60	7.54	7700	642	750	519	14.4	1465	4430	246	170	149	829	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.41	< 0.1	< 0.05	< 0.001	< 0.1	0.059	1.2	1.8	3	< 0.2	< 1	4.1
0614	N	1/4/1995	6,922.30	6.50	7.38	7528	606	636	446	15.2	1330	4176	237	213	155	520	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.23	< 0.1	< 0.05	< 0.001	< 0.1	0.04	1.8	2.4	4.2	< 0.2	< 1	5.6
0614	N	4/4/1995	6,922.00	6.50	6.90	7731	604	654	451	15	1370	4048	277	183	171	756	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.33	< 0.1	< 0.05	0.001	< 0.1	0.044	1.2	2.9	4.1	< 0.2	< 1	5.7

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0614	N	7/6/1995	6,922.40	6.50	7.93	7816	565	685	440	15.4	1331	4000	241	227	154	585	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.3	< 0.1	< 0.05	0.003	< 0.1	0.052	7.2	8.4	15.6	0.5	< 1	22.8
0614	N	10/3/1995	6,921.30	6.50	7.71	7857	560	690	445	16	1357	4040	205	222	179	638	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	0.31	< 0.1	< 0.05	< 0.001	< 0.1	0.045	0.9	1.1	2	< 0.2	1.7	6.2
0614	N	1/3/1996	6,921.10	6.60	7.20	7886	543	750	470	17.7	1352	4260	204	234	179	583	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	0.35	< 0.1	< 0.05	< 0.001	< 0.1	0.047	6	1.2	7.2	0.7	1.5	12
0614	N	4/2/1996	6,920.60	6.50	7.92	7896	605	852	442	17.2	1286	4780	221	262	182	624	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	0.32	< 0.1	< 0.05	< 0.001	< 0.1	0.05	1.2	3.4	4.6	< 0.2	< 1	3.5
0614	N	7/7/1996	6,920.30	6.30	6.99	8045	537	750	432	18.5	1313	4210	238	243	181	587	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.37	< 0.1	< 0.05	< 0.001	< 0.1	0.053	4.9	< 1	4.9	< 0.2	< 1	5.3
0614	N	10/1/1996	6,919.70	6.50	6.89	8120	574	805	436	18.4	1320	4394	223	288	189	598	0.6	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.41	< 0.1	< 0.05	0.002	< 0.1	0.044	1.6	< 1	1.6	< 0.2	< 1	2.1
0614	N	1/21/1997	6,919.80	6.00	7.01	7850	555	800	437	18.8	1272	4355	201	290	188	635	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.41	< 0.1	< 0.05	< 0.001	< 0.1	0.038	1.1	3.6	4.7	< 0.2	< 1	< 1
0614	N	4/8/1997	6,919.00	6.60	7.79	7970	531	760	428	18.7	1280	4360	218	271	226	482	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.39	< 0.1	< 0.05	0.074	< 0.1	0.049	8.2	3.2	11.4	< 0.2	< 1	20.4
0614	N	7/8/1997	6,918.60	6.80	7.81	8100	594	841	449	18.6	1290	4520	233	264	223	444	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.42	< 0.1	< 0.05	< 0.001	< 0.1	0.043	1.5	< 1	1.5	< 0.2	< 1	< 1
0614	N	10/7/1997	6,918.30	6.40	7.62	7930	602	816	420	16.9	1320	4170	252	253	200	461	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.47	< 0.1	< 0.05	< 0.001	< 0.1	0.051	4.3	3.8	8.1	< 0.2	< 1	7.8
0614	N	1/15/1998	6,917.80	6.90	8.01	7980	558	775	446	17	1330	4200	267	225	214	289	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.44	< 0.1	< 0.05	< 0.001	< 0.1	0.059	1.4	< 1	1.4	< 0.2	< 1	< 1
0614	N	4/7/1998	6,917.70	6.80	7.72	7930	516	739	447	14	1440	3740	218	170	162	377	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.32	< 0.1	< 0.05	< 0.001	< 0.1	0.06	2.2	< 1	2.2	< 0.2	< 1	< 1
0614	N	7/7/1998	6,917.10	6.80	7.96	7990	579	823	466	14	1490	3800	261	171	202	392	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0631	2.3	< 1	2.3	< 0.2	< 1	2.3
0614	N	10/6/1998	6,916.90	7.16	7.87	7730	563	822	496	12.2	1380	4050	261	100	115	176	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0732	0.6	< 1	0.6	< 0.2	< 1	< 1
0614	N	1/5/1999	6,916.20	6.90	7.86	7900	551	786	434	9.9	1520	4000	262	81.2	85.5	255	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0682	0.9	2.2	3.1	< 0.2	< 1	< 1
0614	N	4/6/1999	6,916.20	6.70	7.90	7910	552	844	436	10.2	1590	3780	261	71.5	81.3	258	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.26	< 0.1	< 0.05	0.001	< 0.1	0.0641	2.9	3.6	6.5	< 0.2	3.3	3.3
0614	N	7/13/1999	6,915.51	7.00	7.73	7680	605	891	439	12.7	1280	4000	239	58.1	90.7	188	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.23	< 0.1	< 0.05	0.001	< 0.1	0.0672	0.9	1.2	2.1	< 0.2	< 1	< 1
0614	N	10/5/1999	6,915.30	6.80	7.84	7710	632	961	430	10.8	1362	4410	248	58	83	278	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.25	< 0.1	< 0.05	< 0.001	< 0.1	0.001	4.8	< 1	4.8	< 0.2	< 1	6.8
0614	N	1/4/2000	6,915.10	6.80	8.07	7650	510	770	358	11.5	1470	3430	217	65.1	97.4	226	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.0579	3.8	1.1	4.9	< 0.2	< 1	4.3
0614	N	5/2/2000	6,914.60	6.50	7.56	7600	514	784	405	15.7	1450	3620	236	87	114	383	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0678	1.1	5.7	6.8	< 0.2	< 1	7
0614	N	7/11/2000	6,914.40	6.53	7.53	7600	560	830	426	13.8	1430	3760	229	93.1	109	215	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.22	< 0.1	< 0.05	< 0.001	< 0.1	0.0542	0.6	3.5	4.1	< 0.2	< 1	< 1
0614	N	10/3/2000	6,914.15	6.55	7.04	7420	548	849	421	17.9	1420	4250	241	98.4	104	174	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.2	< 0.1	< 0.05	< 0.001	< 0.1	0.053	0.7	3.7	4.4	< 0.2	< 1	< 1
0614	N	1/10/2001	6,914.00	7.10	7.38	7380	531	762	349	14.7	1440	3720	268	107	93.3	199	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.051	1.2	3.9	5.1	< 0.2	< 1	< 1
0614	N	4/2/2001	6,913.70	6.64	7.28	7350	615	855	354	14.3	1420	3880	248	118	101	258	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.27	< 0.1	< 0.05	0.001	< 0.1	0.056	0.8	< 1	0.8	< 0.2	< 1	< 1
0614	N	7/16/2001	6,913.35	6.73	7.02	7330	507	722	415	17.3	1430	3300	320	116	96.9	260	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.001	< 0.1	0.052	0.6	2.4	3	< 0.2	< 1	< 1
0614	N	10/2/2001	6,913.20	6.61	7.50	7270	520	720	330	16.2	1500	3300	357	118	93.5	183	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.22	< 0.1	< 0.05	0.001	< 0.1	0.0478	0.9	3.9	4.8	< 0.2	< 1	< 1
0614	N	1/14/2002	6,913.00	6.64	7.30	7110	602	751	356	16.7	1490	3460	332	123	86.7	230	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.28	< 0.1	< 0.05	0.003	< 0.1	0.0501	1.1	5.4	6.5	< 0.2	< 1	< 1
0614	N	4/2/2002	6,912.90	6.56	7.60	7120	603	730	427	16.8	1460	3780	312	119	82.7	222	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0467	< 0.2	< 1	0	< 0.2	< 1	1.5
0614	N	7/10/2002	6,912.40	6.45	7.31	6980	577	599	413	14	1430	3360	286	100	82	222	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0508	1.1	2.3	3.4	< 0.2	< 1	2.2
0614	N	10/9/2002	6,912.30	6.05	7.66	5220	520	621	400	12.4	1440	3080	286	87	79.2	228	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.32	< 0.1	< 0.05	< 0.001	< 0.1	0.0439	0.9	< 1	0.9	< 0.2	< 1	1.3
0614	N	1/8/2003	6,912.06	7.23	7.60	6680	519	598	465	12.1	1470	3020	247	81	74	222	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.25	< 0.1	< 0.05	< 0.001	< 0.1	0.0573	1.2	< 1	1.2	< 0.2	< 1	2.1
0614	N	4/9/2003	6,911.76	6.44	7.13	6840	559	640	434	16.5	1450	2918	334	76	72	248	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.22	< 0.1	< 0.05	< 0.001	< 0.1	0.0536	< 0.2	4	4	< 0.2	< 1	1.6
0614	N	7/9/2003	6,911.61	6.29	7.38	6430	559	609	467	12	1430	3060	314	58	73	285	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.25	< 0.1	< 0.05	< 0.001	< 0.1	0.0403	0.5	< 1	0.5	< 0.2	< 1	< 1.0
0614	N	10/8/2003	6,911.63	6.28	7.32	6670	579	576	460	9.8	1330	3060	312	50	71	192	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0468	0.6	2.9	3.5	< 0.2	< 1	2
0614	N	1/7/2004	6,911.41	6.40	6.97	6500	620	655	458	10.8	1390	3160	369	53 D	71.7 D	142 D	0.3	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0509 D	0.8	< 1.0	0.8	< 0.2	< 1.0	1.9
0614	N	4/7/2004	6,911.37	6.55	6.72	6590	597	635	450	10.6	1390	3020 D	347	47 D	72.8 D	140 D	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.26	< 0.1	< 0.05	0.01	< 0.1	0.0506 D	0.7	3.1	3.8	< 0.2	< 1	2.1
0614	N	7/14/2004	6,911.01	6.28	6.49	6960	591	630	456	10.3	1430	3130 D	346	40 D	70.4 D	128 D	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.2	< 0.1	< 0.05	< 0.001	< 0.1	0.0506 D	0.6	< 1.0	0.6	< 0.2	< 1.0	< 1.0
0614	N	10/6/2004	6,911.04	6.32	7.03	6850	600 D	665 D	481	9.9	1450	3230 D	343	45 D	76.5 D	165 D	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.23	< 0.1	< 0.05	0.001	< 0.1	0.0516 D	< 0.2	1.7	1.7	< 0.2	< 1.0	< 1.0
0614	N	1/5/2005	6,911.01	6.48	6.87	6860	609 D	667 D	494 D	10	1240	3260 D	356	42 D	69 D	27.9 D	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.24	< 0.1	< 0.05	0.004	< 0.1	0.0532	1.4	< 1.0	1.4	< 0.2	< 1.0	4.4
0614	N	4/6/2005	6,910.60	6.57	7.23	6500	592	637	478	9.8	1400	3120	346	37	63	157	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.25	< 0.1	< 0.05	< 0.001	< 0.1	0.05	1.1	4.3	5.4	< 0.2	< 1.0	< 1.0
0614	N	7/13/2005	6,910.51	6.47	7.28	6570	615 D	647 D	437	9.2	1360	3150 D	360	44 D	56 D	178 D	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.27	< 0.1	< 0.05	< 0.001	< 0.1	0.0489	1.3	< 1.0	1.3	< 0.2	< 1.0	1.3
0614	N	10/5/2005	6,910.58	6.48	7.05	6550	584 D	659 D	460	10.5	1440	2910 D	324	50 D	61 D	202 D	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0498 D	0.6	1.6	2.2	< 0.2	< 1.0	< 1.0
0614	N	1/11/2006	6,910.48	6.58	7.30	6460	550 D	604 D	401	9.8	1370	3090 D	315	58 D	74 D	84.0 D	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.38	< 0.1	< 0.05	0.009	< 0.1	0.0512	0.7	1.2	1.9	< 0.2	< 1.0	1.3
0614	N	4/4/2006	6,910.28	6.45	7.36	6450	602 D	639 D	417	10.2	1460	2950 D	376 D	139 D	77 D	108 D	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.37	< 0.1	< 0.05	0.01	< 0.1	0.0488 D	0.7	< 1.0	0.7	< 0.2	< 1.0	1
0614	N	7/19/2006	6,910.01	6.45	6.83	6240	618	610 D	467	10.3	1350	3040 D	350	46 D	69 D	62.8 D	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0507	0.5	1.8	2.3	< 0.2	< 1.0	< 1.0
0614	N	10/4/2006	6,909.93	6.41	6.86	6360	577 D	592 D	439	10.5	1240	2850 D	332	55 D	73 D	125 D	0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.36	< 0.1	< 0.05	< 0.001	< 0.1	0.0462 D	0.5	3.4	3.9	< 0.2	< 1	< 1
0614	N	1/10/2007	6,909.94	6.49	6.89	6510	559 D	589 D	432	11.2	1340	3040 D	366	50 D	71 D	114	0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.39	<0.1	<0.05	<0.001	<0.1	0.0452	1.2	1.9	3.1	<0.2	<1	<1
0614	N	4/11/2007	6,909.94	6.59	6.19	6480	580 D	615 D	424	11.1	1340	3060 D	348	57 D	80 D	113	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.38	<0.1	<0.05	<0.001	<0.1	0.0461	0.7	2.4	3.1	<0.2	<1	1.5
0614	N	7/11/2007	6,909.56	6.43	6.98	6280	605 D	626 D	436	10.6	1450	3150 D	310	52 D	82 D	83.2	<0.1	0.005	<0.01	<0.005	<0.01	<0.05	0.43	<0.1	<0.05	<0.001	<0.1	0.0492	1.3	<1	1.3	<0.2	<1	<1
0614	N	10/3/2007	6,909.49	6.43	6.87	6490	540 D	582 D	455 D	11.9	1520	2910 D	378 D	72.3 D	78 D	182	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.49	<0.1	<0.05	<0.001	<0.1	0.0508	0.7	2	2.7	<0.2	<1	2.1
0614	N	1/16/2008	6,909.66	6.61	6.54	6220	584 D	622 D	492 D	12.2	1440	3010 D	354 D	67 D	87 D	137	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.48	< 0.1	< 0.05	0.002	< 0.1	0.054	1.6	2.3	3.9	< 0.2	< 1	3.8
0614	N	4/9/2008	6,909.61	6.65	7.18	6430	619 D	678 D	517 D	12.0 D	1380	3360 D	309	68.6 D	147 D	210	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.48	< 0.1	< 0.05	< 0.001	< 0.1	0.0512	1.1	2.2	3.3	-0.5 U	0 U	5.6
0614	N	7/9/2008	6,909.11	7.49	7.07	6150	608 D	643 D	513 D	11.3	1290	3190 D	355	72.6 D	121 D	63.6	< 0.1	< 0.003	< 0.01	< 0.005	< 0.01	< 0.05	0.5	< 0.1	< 0.05	< 0.001	< 0.1	0.0539	0.41	0.72 U	1.13	-0.3 U	5.3 U	0.6 U
0614	N	10/8/2008	6,908.91	6.48	6.76	6500	577	612	468 D	10	1580	3510 D	320	72.1 D	111 D	146	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.5	< 0.1	< 0.05	< 0.001	< 0.1	0.052	0.25	2.3	2.55	0.3	-2 U	2.4
0614	N	1/14/2009	6,908.81	7.34	7.09	6870	529	599	493	10 D	1290	2980 D	296	122 D	124 D	42	0.2	<0.001	<0.01	<0.005	<0.01	<0.05	0.46	<0.1	<0.05	0.001	<0.1	0.0624	0.54	4	4.54	0 U	-1 U	3.3
0614	N	4/8/2009	6,908.91	6.55	6.8	6570	550 D	616 D	485 D	11	1470	3190 D	325	70.2 D	98.7 D	52	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.49	<0.1	<0.05	0.001	<0.1	0.0520 D	0.21	2.6	2.81	-0.1 U	-1 U	1
0614	N	7/8/2009	6,908.61	6.41	6.72	6800	615 D	655	490 D	12	1580	3290 D	335	85 D	94 D	141	0.3	<0.001	<0.01	<0.005	<0.01	<0.05	0.54	<0.1	<0.05	0.001	<0.1	0.0524	0.57	3.2	3.77	0.4 U	3	1.7
0614	N	10/7/2009	6,908.71	6.94	7.6	6650	576 D	652	477 D	12	1410	2980 D	343	76 D	101 D	92	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.57	<0.1	<0.05	<0.001	<0.1	0.0512	0.37	2.4	2.77	0.0009 U	-1 U	1.3
0614	N	1/6/2010	6,908.46	7.18	7.5	7060 D	597 D	664	482 D	12	1230	3430 D	318	61.4 D	110 D	39	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.61	<0.1	<0.05	0.002	<0.1	0.0512	0.5	3.7	4.2	0.03 U	0.9 U	1.1
0614	N	4/7/2010	6,908.21	7.15	7.12	7080 D	605 D	735	502 D	14	1570	3630 D	306	87 D	116 D	184	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.6	<0.1	<0.05	0.001	<0.1	0.0481	0.68	3.4	4.08	-0.07 U	0.01 U	0.7

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0614	N	7/14/2010	6,908.06	7.06	6.75	7100 D	583 D	699	492 D	13	1450	3400 D	288 D	93 D	112 D	167	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.54	<0.1	<0.05	0.001	<0.1	0.0492	0.99	3.1	4.09	0.05 U	-1 U	0.9
0614	N	10/6/2010	6,908.06	7.21	7.22	6910 D	567 D	673	487 D	13	1440	3330 D	279 D	95 D	113 D	38	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.72	<0.1	<0.05	<0.001	<0.1	0.0516	0.47	3.5	3.97	0.01 U	2.3	0.9
0614	N	1/10/2011	6,908.30	6.62	7.26	6830 D	564 D	694	474 D	14	1400	3450 D	295 D	102 D	97 D	154	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.69	<0.1	<0.05	<0.001	<0.1	0.0502	0.73	3.4	4.13	0.2 U	1.3 U	0.8
0614	N	4/11/2011	6,907.96	7.14	6.99	7030 D	584	702	489	14	1210	3580 D	287 D	50 D	<0.1	44	0.9	0.003	<0.01	<0.005	0.01	<0.05	0.65	<0.1	<0.05	0.001	<0.1	0.0494	0.44	3.9	4.34	-0.003 U	1.2 U	1
0614	N	7/13/2011	6,907.51	7.41	7.25	7060 D	577	720	510 D	15	1270	3570 D	283 D	110 D	130 D	32.7	0.6	<0.001	<0.01	<0.005	<0.01	<0.05	0.75	<0.1	<0.05	0.001	<0.1	0.0493	0.46	4.2	4.66	0.06 U	0.2 U	1.5
0614	N	10/5/2011	6,907.85	6.57	7.02	7040 D	556	700	488 D	15	1220	3620 D	278 D	131 D	129 D	49.2	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	0.77	<0.1	<0.05	0.001	<0.1	0.0455	0.83	4	4.83	0.06 U	-0.8 U	0.8
0614	N	1/4/2012	6,907.31	6.59	6.87 H	6980 D	550	671	449	14	1170	3630 D	264 D	137 D	137 D	135	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.43	<0.1	<0.05	<0.001	<0.1	0.0469	0.46	4.1	8.66	-0.004 U	0.5 U	0.7
0614	N	4/4/2012	6,907.66	6.52	6.70 H	7500 D	492	641	448	17	1190	3610 D	261 D	138 D	144 D	48.4	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.61	<0.1	<0.05	<0.001	<0.1	0.0463	0.85	3.3	7.45	0.04 U	-0.1 U	1.3
0614	N	7/11/2012	6,907.26	6.42	6.70 H	7010	527	728	463	15	1270	3780 D	274 D	158 D	113 D	132	0.1	<0.001	<0.001	<0.005	<0.01	0.002	0.61	<0.1	<0.05	<0.001	<0.1	0.0421	0.61	3.4	7.41	0.06 U	0.9 U	0.9
0614	N	10/10/2012	6,907.36	6.52	6.58 H	7170	562	703	464 D	17	1370	3720 D	269 D	161 D	139 D	238	<0.1	<0.001	<0.001	<0.005	<0.01	0.003	0.82	<0.1	<0.05	<0.001	<0.1	0.0459	1.1	3	4.1	0.04 U	0.3 U	0.6
0614	N	1/15/2013	6,907.40	6.46	6.51 H	7030	558	761	501 D	17	1300	3800 D	256 D	172 D	135 D	57.6	0.2	<0.001	<0.001	<0.005	<0.01	0.003	0.84	<0.1	<0.05	<0.001	<0.1	0.0525	1	3.5	4.5	0.05 U	-0.02 U	0.5
0614	N	4/3/2013	6,907.29	6.46	6.67 H	6980	551	727	484 D	16	1280	3790 D	267 D	202 D	145 D	217	0.1	<0.001	<0.001	<0.005	<0.01	0.003	0.85	<0.1	<0.05	<0.001	<0.1	0.05	0.82	4.1	4.92	0.04 U	0.2 U	0.5
0614	N	7/10/2013	6,906.98	6.36	6.84 H	7290	538	745	470 D	15	1110	3850 D	no data	164 D	145 D	118	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	0.72	<0.1	<0.05	<0.001	<0.1	0.0455	0.4	3.1	3.5	0.07 U	-0.2 U	2.2
0614	N	10/2/2013	6,907.08	6.5	6.90 H	6960	546	734	474 D	16	1140	3740 D	265 D	167 D	131 D	89.2	<0.1	<0.001	<0.001	<0.005	<0.01	0.003	0.81	<0.1	<0.05	<0.001	<0.1	0.0481	0.87	3.3	4.17	0.1 U	0.04 U	1.9
0614	N	1/8/2014	6,907.00	6.73	6.74	6930	521	693	444	15	1140	3730	258	154	134	66.4	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	0.62	<0.1	<0.05	<0.001	<0.1	0.0505	0.84	4.6	5.44	0.01 U	0.3 U	2.9
0614	N	4/1/2014	6,907.13	6.58	6.56 H	7140	569	729	506 D	16	1310	3710 D	274 D	145 D	164 D	149 E	<0.1	0.002	<0.001	<0.005	<0.01	0.002	0.62	<0.1	<0.05	<0.001	<0.1	0.0507	0.67	4.8	5.47	0.03 U	0.3 U	2.4
0614	N	7/8/2014	6,906.67	6.60	6.57 H	7180	527	734	495 D	16	1250	3860 D	268 D	143 D	138 D	124	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	0.56	<0.1	<0.05	<0.001	<0.1	0.0412	0.59	5	5.59	0.02 U	0.5 U	2
0614	N	10/7/2014	6,906.67	6.52	6.63 H	7200	536	706	436	14	1250	3690 D	263 D	100 D	169 D	80	<0.1	<0.001	<0.001	<0.005	<0.01	0.004	0.71	<0.1	<0.05	<0.001	<0.1	0.0464	0.94	4.1	5.04	0.04 U	0.4 U	0.8
0614	N	1/6/2015	6,906.46	6.61	6.61 H	7080	544	720	462	15	1220	3900 D	316 D	102 D	182 D	109	0.6	<0.001	<0.001	<0.005	<0.01	0.005	0.64	<0.1	<0.05	<0.001	<0.1	0.046	0.92	3.5	4.42	0.02 U	0.03 U	2.2
0614	N	4/7/2015	6,906.69	6.42	6.57 H	7220	547	707	466 D	15	1240	3740 D	286 D	96 D	186 D	103	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	0.52	<0.1	<0.05	<0.001	<0.1	0.0405	1.4	4	5.4	-0.007 U	0.3 U	9.2
0614	N	7/7/2015	6,906.43	6.34	6.55 H	7320	504	646	436	16	1220	3830 D	285 D	149 D	136 D	72.8	0.2	<0.001	<0.001	<0.005	<0.01	0.004	0.66	<0.1	<0.05	<0.001	<0.1	0.0413	0.84	3.7	4.54	0.03 U	0.6 U	3
0614	N	10/6/2015	6,906.35	6.45	6.59 H	7290	522	686	459	15	1120	3770 D	287 D	122 D	135 D	83.6	0.2	<0.001	<0.001	<0.005	<0.01	0.004	0.85	<0.1	<0.05	<0.001	<0.1	0.0452	1.6	6.1	7.7	0.2	0.3 U	6.7
0614	N	1/5/2016	6,906.46	6.52	6.41 H	7130	543	726	472	15	1220	3680 D	279 D	125 D	156 D	41.2	0.3	0.001	<0.001	<0.005	<0.01	0.004	0.83	<0.1	<0.05	<0.001	<0.1	0.0397	0.89	3.7	4.59	0.09 U	0.03 U	5.7
0614	N	4/5/2016	6,906.14	6.37	6.66 H	7210	545	693	456	14	815 H	3750 D	285 D	103 D	168 D	12.4	0.5	<0.001	<0.001	<0.005	<0.01	0.006	0.95	<0.1	<0.05	0.002	<0.1	0.0417	0.96	4.2	5.16	0.01 U	0.2 U	4.4
0614	N	7/12/2016	6,906.10	6.38	6.50 H	7350	549	711	476	15	979	3900 D	305 D	70 DH	200 DH	97.2	0.1	<0.001	<0.001	<0.005	<0.01	0.006	1.02	<0.1	<0.05	<0.001	<0.1	0.0389	0.73	6	6.73	0.1 U	0.3 U	2.3
0614	N	10/4/2016	6,906.27	6.49	6.61 H	7070	552	703	463 D	14	879	3760 D	291 D	60 D	200 D	32	<0.1	<0.001	<0.001	<0.005	<0.01	0.003	0.94	<0.1	<0.05	<0.001	<0.1	0.0374	0.8	3.8	4.6	0.04 U	0.8 U	3.5
0614	N	1/10/2017	6,906.08	6.45	6.62 H	7110 D	581	678	454	15	910	3690 D	295 D	89 D	180 D	55	0.3	<0.001	<0.001	<0.005	<0.01	0.007	1.14	<0.1	<0.05	<0.001	<0.1	0.0492	0.78	3.5	4.28	0.3	0.3 U	5.1
0614	N	4/4/2017	6,906.15	6.28	6.81 H	6970 D	530	672	458 D	15	930 H	3530 D	291 D	48 D	202 D	39	<0.1	<0.001	<0.001	<0.005	<0.01	0.005	0.93	<0.1	<0.05	0.002	<0.1	0.0362	0.56	5.1	5.66	0.09 U	0.03 U	2.9
0614	N	7/11/2017	6,905.79	6.40	6.49 H	7000 D	555	691	453 D	14	976	3400 D	285 D	57 D	197 D	71	<0.1	<0.001	<0.001	<0.005	<0.01	0.004	1.07	<0.1	<0.05	0.002	<0.1	0.0393	0.7	4.2	4.9	0.1 U	0.3 U	0.6
0614	N	10/3/2017	6,905.04	6.38	6.57 H	6930 D	555	680	468 D	14	976	3360 D	292 D	73 D	160 D	42	0.1	<0.001	<0.001	<0.005	<0.01	0.005	0.93	<0.1	<0.05	0.002	<0.1	0.0464	0.7	4.4	5.1	0.07 U	0 U	1.1
0614	N	1/9/2018	6,905.61	6.45	6.53 H	7280 D	538	686	446 D	15	825	3660 D	301 D	82 D	163 D	46	0.04 D	<0.001	<0.001	<0.001	<0.005	0.003	0.889 D	<0.001	0.008	0.002	<0.01	0.0466	0.6	3.5	4.1	0.2 U	-0.6 U	1
0614	N	4/3/2018	6,905.82	6.36	6.58 H	7240 D	551	665	465 D	14	825	3730 D	315 D	83 D	178 D	46	<0.03	<0.001	<0.001	<0.001	<0.005	0.003	0.924	<0.001	0.01	0.002	<0.01	0.0407	0.9	2.6	3.5	0.03 U	0.3 U	1.9
0614	N	7/10/2018	6,905.39	6.31	6.56 H	7180 D	515	620	431	13	755	3390 D	294 D	67 D	178 D	33	0.03	<0.001	<0.001	<0.001	<0.005	0.004	0.902	<0.001	0.01	0.002	<0.01	0.0437	0.7	3.6	4.3	0.008 U	0.8 U	1.2
0614	N	10/2/2018	6,905.36	6.52	6.57 H	6910 D	575	678	461 D	14	1550	3590 D	312 D	60 D	160 D	172	0.15	<0.001	<0.001	<0.001	<0.005	0.004	0.914	0.001	0.007	0.003	<0.01	0.043	0.6	3.3	3.9	0.09 U	0.4 U	1.4
0614	N	1/8/2019	6,905.22	6.41	6.62 H	6920 D	576	689	485 D	15	1270	3470 D	305 D	70 DH	142 D	112	<0.03	no data	<0.001	<0.001	0.008	0.002	0.975	0.001	0.01	no data	<0.01	0.0457	0.7	3.6	4.3	0.1 U	0.3 U	2.5
0614	N	4/9/2019	6,905.36	6.43	6.65 H	6970 D	530	652	457	12	1320	3290 D	301 D	62 D	152 D	60	0.06	0.002	<0.001	<0.001	<0.005	0.003	1.04	<0.001	0.013	0.066	<0.01	0.0462	0.7	3.2	3.9	0.08 U	0.7 U	1.1
0614	N	7/24/2019	6,905.09	6.44	6.6 H	6890 DH	527	671	445	14	1490	3440 D	313 D	106 D	97 D	87	0.06	<0.001	<0.001	<0.001	<0.005	0.002	0.939 D	0.002	0.011	0.075	<0.01	0.044	0.5	2.7	3.2	0.1	0.4 U	1.4
0614	N	10/1/2019	6,905.24	6.37	6.61 H	6760 DH	537	613	442	15	1490	3400 D	313 D	98 D	107 D	196	<0.08 D	<0.001	<0.001	<0.001	<0.005	0.002	0.922 D	<0.001	0.014	0.069	<0.01	0.0435 D	0.8	2.5	3.3	0.009 U	-0.3 U	1.8
0616	N	7/18/1991	no data	5.6	6.21	8302	419	861	244	11	85	5119	102	0.64	189	no data	1.03	<0.001	0.01	<0.01	0.19	<0.05	16.8	<0.1	0.31	<0.001	<0.1	<0.0003	1.3	3.1	4.4	<0.2	<1	2
0616	N	7/25/1991	no data	5.5	5.94	7953	432	893	246	10.9	39.5	4954	103	0.74	115	no data	1.24	<0.001	<0.01	<0.01	0.23	<0.05	16.1	<0.1	0.4	0.002	<0.1	<0.0003	0.8	5.8	6.6	<0.2	1.4	<1
0616	N	8/1/1991	no data	5.4	6.07	9118	445	951	239	15.2	52.4	5536	102	1.17	687	no data	1.62	<0.001	<0.01	<0.01	0.32	<0.05	13.23	<0.1	0.39	0.039	<0.1	0.001	1.6	4.7	6.3	<0.2	5.9	2
0616	N	8/8/1991	no data	5.2	5.77	9622	415	1048	249	10.9	64	6270	88.9	1.6	104	no data	1.62	<0.001	<0.01	<0.01	0.39	<0.05	16.5	<0.1	0.65	0.027	<0.1	0.001	3.1	3.8	6.9	<0.2	6	3
0616	N	9/4/1991	no data	no data	5.91	9640	433	916	284	12.3	66	6800	106	1.2	71	no data	1.69	<0.001	<0.01	<0.01	0.52	<0.05	19.2	<0.01	0.86	<0.001	<0.1	0.001	1.4	4.8	6.2	<0.2	<1	1
0616	N	10/17/1991	no data	5.4	6.27	7795	470	765	293	11.8	78.1	4563	118	1	107	no data	1.28	<0.001	<0.01	<0.01	0.33	<0.05	15.1	<0.1	0.44	0.001	<0.1	0.0005	1.2	5.9	7.1	<0.2	<1	1
0616	N	11/4/1991	no data	no data	5.56	7656	450	808	267	11.1	43.7	5036	129	1	95	no data	2.2	<0.001	<0.01	<0.01	0.43	<0.05	18.6	<0.1	0.74	<0.001	<0.1	<0.0003	2.1	6.6	8.7	<0.2	<1	1
0616	N	12/2/1991	no data	no data	5.71	8412	462	797	274	11.7	81.2	4626	113	2.15	107	no data	2.51	<0.001	<0.01	<0.01	0.38	<0.05	14.4	<0.1	0.58	<0.001	<0.1	0.0009	4.7	7.1	11.8	<0.2	<1	5
0617	N	7/18/1991	no data	6.4	7.11	10198	485	1199	390	14.7	1279	5708	246	64.3	120	no data	0.6	<0.001	<0.01	<0.01	<0.01	<0.05	2.5	<0.1	0.03	0.002	<0.1	0.119	1.4	<1	0.4	<0.2	<1	1
0617	N	7/25/1991	no data	6.5	7.04	9544	493	1096	415	14.5	659	5499	265	68	140	no data	0.44	<0.001	<0.01	<0.01	0.04	<0.05	2.8	<0.1	<0.05	0.005	<0.1	0.0869	0.8	2.7	3.5	<0.2	<1	<1
0617	N	8/1/1991	no data	6	7.14	10173	482	1074	353	18.1	1086	5320	21.8	64.6	99.2	no data	0.45	<0.001	<0.01	<0.01	0.03	<0.05	2.21	<0.1	<0.05	0.057	<0.1	0.0721	2	2.1	4.1	<0.2	<1	2
0617	N	8/8/1991	no data	6.2	6.77	10136	462	1412	368	15.1	1356	6510	239	64.1	45.5	no data	0.29	<0.001	<0.01	<0.01	0.05	<0.05	2.51	<0.1	0.05	0.048	<0.1	0.1302	1.6	<1	0.6	<0.2	<1	2
0617	N	9/4/1991	no data	no data	6.78	9888	494	2010	408	15.6	1295	6380	253	93	78	no data	0.61	<0.001	<0.01	<0.01	0.05	<0.05	2.19	<0.01	0.06	0.001	<0.1	0.0931	0.5	2.8	3.3	<0.2	3.9	<1
0617	N	10/17/1991	no data	6.4	7.13	9636	535	784	391	17	1281	5120	251	74.5	113	no data	0.49	<0.001	<0.01	<0.01	0.05	<0.05	2.51	<0.1	0.08	0.003	<0.1	0.1315	1.2	2.7	3.9	<0.2	<1	1
0617	N	11/4/1991	no data	no data	6.75	9514	500	875	276	15.1	1271	5257	952	63	127	no data	0.29	<0.001	<0.01	<0.01	0.05	<0.05	1.98	<0.1	0.06	0.001	<0.1	0.06	1.9	5.4	7.3	<0.2	<1	2
0617	N	12/2/1991	no data	no data	7.07	9787	527	898	388	15.7	1204	4379	241	74.8	146	no data	0.22	0.002	<0.01	<0.01	0.04	<0.05	2.52	<0.1	0.09	0.001	<0.1	0.06	8.8	3.5	12.3	<0.2	<1	9
0617	N	10/10/2012	6,878.83	6.82	6.75 H	11600	505	1560	504 D	26	1540	7340 D	263 D	264 D	98 D	2.23	1.9	<0.001	<0.001	<0.005	0.01	0.004	2.1	<0.1	0.07	0.005	<0.1	0.0811	2.1	6.9	9	<0.02 U	0.6 U	1.9
0617	N	10/10/2012	6,878.83	6.82	6.75 H	11600	505	1560	504 D	26	1540	7340 D	263 D	264 D	98 D	2.23	1.9	<0.001	<0.001	<0.005	0.01	0.004	2.1	<0.1	0.07	0.005	<0.1	0.0811	2.1	6.9	9	-0.02 U	0.6 U	1.9
0619	N	7/23/1989	6,888.10	6.60	6.50	5513	593	596	184	8.43	176	3852	35	0.61	0.34	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	2	< 0.1	< 0.05	< 0.001	< 0.1	0.0034	2.5	3.7	6.2	4.9	< 1	9.1
0619	N	10/12/1989	6,888.20	6.70	7.28	5086	486	491	158	11.1	229	3251	36.6	0.44	1.56	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.02	< 0.05	1.3	< 0.1	< 0.05	< 0.001	< 0.1	0.011	1.3	2	3.3	< 0.2	< 1	1.7
0619	N	1/10/1990	6,887.60	6.50	7.08	5278	505	539	168	8.75	206	3360	40.5	0.74	1.01	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.03	< 0.05	1.4	< 0.1	< 0.05	< 0.001	< 0.1	0.009	1.1	2	3.1	< 0.2	< 1	1.5
0619	N	4/6/1990	6,887.60	6.80	6.92	4840	527	512	150	8.8	251	2966	38.5	0.69	0.22	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	1	< 0.1	< 0.05	0.001	< 0.1	0.009	1.7	2	3.7	< 0.2	< 1	2.5

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0619	N	7/3/1990	6,887.00	6.50	7.32	5020	527	478	151	7.8	234	3160	34.2	0.27	0.09	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.01	< 0.05	1.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0068	1.7	< 1	1.7	0.5	< 1	2
0619	N	10/3/1990	6,886.90	6.70	7.21	4526	487	392	147	10.1	254	2738	36.6	0.13	< 0.01	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.03	< 0.05	0.89	< 0.1	< 0.05	< 0.001	< 0.1	0.008	0.9	3.1	4	< 0.2	< 1	< 1
0619	N	1/15/1991	6,887.20	6.50	6.59	5538	572	611	185	12.1	176	3616	41.4	0.54	0.18	< 1	< 0.1	< 0.001	< 0.01	0.01	< 0.01	< 0.05	2.5	< 0.1	< 0.05	< 0.001	< 0.1	0.005	3	4.3	7.3	< 0.2	2.5	3.1
0619	N	4/2/1991	6,887.60	6.40	6.50	5610	479	459	172	8	184	3589	43.1	0.63	1	< 1	0.12	< 0.001	< 0.01	< 0.01	0.01	< 0.05	2.01	< 0.1	< 0.05	< 0.001	< 0.1	0.005	2.3	2.7	5	< 0.2	< 1	2
0619	N	7/17/1991	6,888.10	6.40	7.15	5446	452	471	168	7.9	195	3882	43.7	0.68	0.17	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	< 0.01	< 0.1	< 0.05	< 0.001	< 0.1	0.004	1.1	1	2.1	0.2	1.6	1
0619	N	10/15/1991	6,888.50	6.40	7.02	5399	540	508	189	7.6	165	3520	44.8	0.63	0.17	< 1	0.27	0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.22	< 0.1	< 0.05	< 0.001	< 0.1	0.009	0.6	4.6	5.2	< 0.2	< 1	< 1
0619	N	1/15/1992	6,888.60	6.40	7.34	5182	455	544	177	7.8	231	3398	53.5	1.2	0.87	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.82	< 0.1	< 0.05	0.003	< 0.1	0.007	1.2	1.2	2.4	< 0.2	< 1	1
0619	N	4/8/1992	6,888.60	6.40	6.52	5323	537	466	204	9.4	180	3504	41.8	0.82	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	1.92	< 0.1	< 0.05	< 0.001	< 0.1	0.006	0.7	1.8	2.5	< 0.2	< 1	< 1
0619	N	7/8/1992	6,888.70	6.30	7.64	5017	500	548	302	12.9	175	3863	41.7	1.04	3.7	< 1	0.14	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.91	< 0.1	< 0.05	0.001	< 0.1	0.003	1	5.2	6.2	< 0.2	1.1	1.5
0619	N	10/7/1992	6,889.00	6.50	7.26	5257	538	499	222	10.2	168	3427	39.5	0.59	5.2	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	2.04	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.7	3.2	4.9	< 0.02	< 1	1.9
0619	N	1/6/1993	6,889.30	6.50	7.06	5176	563	507	315	12.6	166	3487	252	0.13	51.8	< 1	< 0.1	0.003	< 0.01	< 0.01	0.01	< 0.05	0.66	< 0.1	< 0.05	0.003	< 0.1	0.975	0.5	1.6	2.1	< 0.2	< 1	< 1
0619	N	4/6/1993	6,889.70	6.60	7.14	5314	487	439	213	7	272	3359	46.6	0.68	0.6	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.9	< 0.1	< 0.05	< 0.001	< 0.1	0.007	0.8	7.1	7.9	< 0.2	1.9	< 1
0619	N	7/13/1993	6,889.60	6.60	6.66	5057	531	471	200	8.1	190	3310	46.2	0.66	0.29	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.8	< 0.1	< 0.05	< 0.001	< 0.1	0.006	1.4	3.5	4.9	< 0.2	2.7	1.8
0619	N	10/7/1993	6,889.50	6.50	6.57	4615	512	460	188	7.4	165	3207	43.5	0.5	< 0.1	< 1	0.32	0.002	< 0.01	< 0.01	0.01	< 0.05	1.75	< 0.1	< 0.05	0.002	< 0.1	0.005	1.3	9	10.3	< 0.2	< 1	1.4
0619	N	1/6/1994	6,889.80	6.60	7.01	5111	505	416	179	7	171	3192	50.5	2.23	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.8	< 0.1	< 0.05	< 0.001	< 0.1	0.004	2.1	2.9	5	< 0.2	1.4	7.4
0619	N	4/12/1994	6,889.70	6.60	7.03	4764	502	432	177	7	173	3035	45.8	1.64	39.8	< 1	0.21	< 0.001	< 0.01	< 0.01	0.02	< 0.05	1.75	< 0.1	< 0.05	< 0.001	< 0.1	0.005	2	7.9	9.9	< 0.2	5.8	14
0619	N	7/20/1994	6,889.50	6.60	6.66	5111	565	427	158	7.5	177	3424	45.5	0.6	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.57	< 0.1	< 0.05	< 0.001	< 0.1	0.01	1.5	1.3	2.8	< 0.2	< 1	3.6
0619	N	10/4/1994	6,889.70	6.70	7.56	5045	573	453	187	8.1	200	3658	46	0.62	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.85	< 0.1	< 0.05	< 0.001	< 0.1	0.012	1.3	1.9	3.2	< 0.2	2.5	4.3
0619	N	1/4/1995	6,889.50	6.50	7.21	5078	580	432	172	8.8	203	3349	44.8	1.19	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.45	< 0.1	0.07	< 0.001	< 0.1	0.01	1.3	3.9	5.2	< 0.2	< 1	7.3
0619	N	4/5/1995	6,889.40	6.70	6.94	5148	540	500	174	7.67	212	3405	47	1.3	0.13	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.78	< 0.1	< 0.05	< 0.001	< 0.1	0.008	1.6	2.8	4.4	< 0.2	3.7	5.9
0619	N	7/6/1995	6,888.00	6.70	7.66	4288	515	410	153	7.2	216	2963	40	0.74	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.65	< 0.1	< 0.05	< 0.001	< 0.1	0.0065	1.1	3.1	4.2	0.6	< 1	2.7
0619	N	10/3/1995	6,888.90	6.30	7.78	4677	530	457	175	7.5	192	3255	41	0.74	0.17	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	1.79	< 0.1	< 0.05	< 0.001	< 0.1	0.0101	1.3	< 1	1.3	< 0.2	< 1	3.1
0619	N	1/3/1996	6,888.80	6.70	7.31	4731	505	445	182	7.8	179	3260	39.5	0.62	0.12	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.78	< 0.1	< 0.05	< 0.001	< 0.1	0.0067	1.5	< 1	1.5	1	< 1	2.5
0619	N	4/2/1996	6,888.60	6.80	7.90	5039	545	473	164	7.9	204	3395	47	0.52	0.11	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.71	< 0.1	< 0.05	< 0.001	< 0.1	0.018	1.7	4.8	6.5	< 0.2	4.1	3.5
0619	N	7/7/1996	6,888.30	6.40	7.15	5207	515	450	180	8.6	179	3195	50	0.69	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.9	< 0.1	< 0.05	< 0.001	< 0.1	0.008	1.7	< 1	1.7	< 0.2	< 1	1.1
0619	N	10/1/1996	6,888.10	6.40	6.95	5140	547	478	182	8.1	190	3232	47.1	0.46	< 0.1	< 1	0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.86	< 0.1	< 0.05	0.001	< 0.1	0.0036	1.5	< 1	1.5	< 0.2	< 1	2
0619	N	1/22/1997	6,888.50	6.20	7.53	5060	540	490	177	8.09	182	3350	44	0.42	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.84	< 0.1	< 0.05	< 0.001	< 0.1	0.008	1.3	< 1	1.3	< 0.2	< 1	< 1
0619	N	4/8/1997	6,887.80	6.50	7.82	5110	539	458	170	8	193	3370	45	0.2	0.17	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.87	< 0.1	< 0.05	0.004	< 0.1	0.0056	2	4.2	6.2	< 0.2	< 1	4.7
0619	N	7/8/1997	6,887.40	7.10	7.73	5130	586	514	182	8.3	190	3510	49.2	0.5	0.21	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.94	< 0.1	< 0.05	< 0.001	< 0.1	0.005	1.6	4.2	5.8	< 0.2	< 1	< 1
0619	N	10/7/1997	6,887.30	6.20	7.78	5080	569	483	178	8.15	217	3190	47.1	0.46	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.05	< 0.1	< 0.05	< 0.001	< 0.1	0.007	2	< 1	2	< 0.2	< 1	< 1
0619	N	1/15/1998	6,887.20	6.90	8.09	5310	521	484	187	8.8	190	3300	55	0.67	0.13	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0099	4.3	3.6	7.9	< 0.2	< 1	7.5
0619	N	4/8/1998	6,887.10	6.60	7.42	5280	504	469	176	7.9	188	3120	41.1	0.42	0.26	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.94	< 0.1	< 0.05	< 0.001	< 0.1	0.0062	3.6	4.7	8.3	< 0.2	< 1	2.3
0619	N	7/7/1998	6,886.70	6.90	7.61	5210	505	478	181	8.4	195	3200	40.7	0.63	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.97	< 0.1	< 0.05	< 0.001	< 0.1	0.0051	1.2	3.6	4.8	< 0.2	< 1	< 1
0619	N	10/6/1998	6,887.00	6.83	7.88	5390	535	532	197	9.4	191	3480	44.8	0.42	0.42	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.01	< 0.05	2.04	< 0.1	< 0.05	< 0.001	< 0.1	0.016	1.4	3.2	4.6	< 0.2	< 1	< 1
0619	N	1/5/1999	6,886.20	6.80	7.72	5350	523	497	175	8.5	186	3500	44.3	0.33	0.17	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.17	< 0.1	< 0.05	< 0.001	< 0.1	0.0072	1.3	4.1	5.4	< 0.2	2.4	2.4
0619	N	4/6/1999	6,886.40	6.70	7.79	5430	528	534	167	8.1	181	3440	54.4	0.57	0.21	< 1	< 0.1	< 0.001	< 0.01	0.005	< 0.01	< 0.05	2.19	< 0.1	< 0.05	< 0.001	< 0.1	0.0053	2.5	4.8	7.3	< 0.2	2	2
0619	N	7/13/1999	6,885.69	6.60	7.96	5400	551	565	195	11.4	194	3460	50.3	0.49	0.29	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.34	< 0.1	< 0.05	< 0.001	< 0.1	0.0072	1.4	3	4.4	< 0.2	< 1	< 1
0619	N	10/5/1999	6,885.60	6.86	7.86	5220	581	606	169	8.4	188	3790	48.3	0.51	0.28	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.01	< 0.05	2.77	< 0.1	< 0.05	< 0.001	< 0.1	0.0066	1.7	3	4.7	< 0.2	< 1	3.9
0619	N	1/4/2000	6,885.60	6.70	7.67	5330	467	497	151	8.9	188	3000	44.4	< 0.05	0.18	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.43	< 0.1	< 0.05	< 0.001	< 0.1	0.0067	1.4	1.8	3.2	< 0.2	< 1	1.5
0619	N	10/16/2012	6,876.66	6.86	7.08 H	6050	562	658	275 D	14	506	3750 D	118 D	0.87	<0.1	<0.50	0.5	<0.001	<0.001	<0.005	0.1	0.003	4.91	<0.1	0.27	<0.001	<0.1	0.0469	1.9	8.9	10.8	0.005 U	0.8 U	2.6
0515 A	N	7/23/1989	6,920.50	4.50	4.63	7411	482	871	340	12.6	18	4982	52.5	0.39	86	14	12	< 0.001	< 0.05	< 0.01	0.07	< 0.05	7.7	< 0.1	0.26	< 0.001	< 0.1	0.0029	6.3	9.4	15.7	< 0.2	3	23.1
0515 A	N	10/12/1989	6,920.80	4.70	4.60	7650	439	861	328	15.8	4.1	4583	77.8	0.39	84	12	15	< 0.001	< 0.05	< 0.01	0.09	< 0.05	8.5	< 0.01	0.26	0.019	< 0.1	0.004	3.2	< 1	3.2	< 0.2	1.6	3.9
0515 A	N	1/10/1990	6,919.60	4.00	3.94	9350	449	1017	335	13.7	< 1	6227	36.8	3.79	52	8.4	110	< 0.001	< 0.05	< 0.01	0.26	< 0.05	23	< 0.1	0.37	< 0.001	< 0.1	0.01	5.2	9.7	14.9	1.7	3.5	9.7
0515 A	N	4/5/1990	6,918.80	3.90	3.98	9405	451	1073	331	13.3	< 1	6237	30.8	3.25	55	11.8	150	< 0.001	< 0.05	< 0.01	0.31	< 0.05	24	< 0.1	0.46	< 0.001	< 0.1	0.008	4.9	5.5	10.4	1.8	2.2	7.3
0515 A	N	7/3/1990	6,918.10	4.00	4.18	9187	435	941	320	12.7	< 1	6084	59.4	0.67	54.2	22.4	110	< 0.001	< 0.05	< 0.01	0.18	< 0.05	17.6	< 0.1	0.35	< 0.001	< 0.1	0.0107	6.9	6.2	13.1	< 0.2	< 1	7
0515 A	N	10/3/1990	6,917.80	4.40	4.32	9021	440	992	390	15.7	< 1	5728	82.6	0.17	51.6	25.4	75.6	< 0.001	< 0.05	< 0.01	0.17	< 0.05	12.8	< 0.1	0.31	< 0.001	< 0.1	0.005	3.3	8.3	11.6	< 0.2	< 1	4
0515 A	N	1/15/1991	6,916.90	4.40	4.31	9290	523	1146	407	16.7	< 1	6476	68.5	0.65	58.5	42	48.4	< 0.001	0.01	0.01	0.16	< 0.05	11.6	< 0.1	0.32	< 0.001	< 0.1	0.007	5.3	7.1	12.4	< 0.2	< 1	5.7
0515 A	N	4/3/1991	6,916.60	4.60	4.88	9254	459	1159	387	12.9	16	5627	83	0.31	41.4	75.3	60.7	< 0.001	< 0.01	< 0.01	0.11	< 0.05	7.1	< 0.1	0.2	< 0.001	< 0.1	0.003	6.1	7.2	13.3	< 0.2	2	6
0515 A	N	7/17/1991	6,916.50	4.50	4.60	8966	486	940	342	13.2	12	6653	83.5	0.79	38.6	38.4	45.8	< 0.001	0.02	< 0.01	0.24	< 0.05	14.7	< 0.1	0.3	< 0.001	< 0.1	0.011	2.7	3.5	6.2	< 0.2	< 1	3
0515 A	N	9/4/1991	no data	no data	4.62	9792	429	768	385	13.6	5	6955	52.2	0.66	18.1	36.4	9.6	< 0.001	< 0.01	< 0.01	0.15	< 0.05	11.6	< 0.1	0.28	< 0.001	< 0.1	0.008	2.1	6.3	8.4	< 0.2	< 1	2
0515 A	N	10/15/1991	6,916.20	4.80	4.92	9118	410	749	453	15	9.5	5832	108	< 0.05	19.9	102	3.3	< 0.001	< 0.01	< 0.01	0.22	< 0.05	14.4	< 0.1	0.19	< 0.001	< 0.1	0.02	2.4	9	11.4	< 0.2	< 1	3
0515 A	N	11/4/1991	no data	no data	4.33	9001	426	759	377	12.9	< 1	5750	103	0.53	65.7	28	23.19	< 0.001	0.02	< 0.01	0.17	< 0.05	15.2	< 0.1	0.33	< 0.001	< 0.1	0.0138	3.5	12	15.5	< 0.2	6.9	4
0515 A	N	12/2/1991	no data	no data	4.59	9153	425	831	376	13.4	7.2	5298	102	0.9	36	55.9	35.4	< 0.001	< 0.01	< 0.01	0.24	< 0.05	14.1	< 0.1	0.32	< 0.001	< 0.1	0.01	5.4	10.4	15.8	< 0.2	< 1	5
0515 A	N	1/15/1992	6,916.10	4.50	4.61	9035	409	814	396	12.6	16.8	5854	90.3	0.18	26.5	19	26.6	< 0.001	0.02	< 0.01	0.02	< 0.05	15.5	< 0.1	0.31	0.01	< 0.1	0.012	2.6	4.4	7	< 0.2	4.2	3
0515 A	N	4/8/1992	6,916.20	4.30	5.30	9087	430	723	416	14.5	19.8	5710	130	1.23	19.2	24	16.2	0.003	0.01	< 0.01	0.19	< 0.05	13.6	< 0.1	0.27	0.01	< 0.1	0.013	3.4	6.4	9.8	< 0.2	< 1	3.6
0515 A	N	7/8/1992	6,915.80	4.30	4.78	8447	438	687	511	17.7	5.3	5892	109	1.78	31	63	21	0.001	< 0.01	< 0.01	0.19	< 0.05	15.7	< 0.1	0.26	0.001	< 0.1	0.02	3.4	10.8	14.2	< 0.2	1.6	3.7
0515 A	N	10/7/1992	6,915.70	4.60	4.10	8989	450	953	470	19.4	< 1	6028	78.2	0.43	15.1	48.2	48.8	< 0.001	< 0.01	< 0.01	0.28	< 0.05	18.7	< 0.1	0.38	< 0.001	< 0.1	0.02	5.6	7	12.6	< 0.2	< 1	5.9
0515 A	N	1/6/1993	6,915.60	5.30	4.98	7144	415	776	384	13	19.3	4980	145	0.71	21.8	102	10.2	< 0.001	0.01	< 0.01	0.21	< 0.05	14.2	< 0.1	0.34	0.004	< 0.1	0.015	5.7	6.7	12.4	< 0.2	< 1	5.9
0515 A	N	4/6/1993	6,915.60	4.70	4.55	8962	389	863	471	12.5	2.5	5942	150	0.35	27.1	89	35.6	< 0.001	0.013	< 0.01	0.26	< 0.05	18.8	< 0.1	0.37	0.001	< 0.1	0.015	2.9	9.5	12.4	< 0.2	4.4	3.6
0515 A	N	7/13/1993	6,915.00	5.00	4.60	8790	449	1088	458	14	7.1	5755	195	1.14	29.3	133	5.73	< 0.001	< 0.01	< 0.01	0.2	< 0.05	14	< 0.1	0.28	< 0.001	< 0.1	0.012	2.6	6.5	9.1	< 0.2	2.9	3.4

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**80**	**NA**	**0.05**	**0.05**	**0.01**	**NA**	**0.05**	**NA**	**NA**	**0.07**	**0.01**	**0.1**	**0.238**	**NA**	**NA**	**12.1**	**1.6**	**4.7**	**15**
		EPA Standard	**NA**	**NA**	**NA**	**8020**	**NA**	**NA**	**NA**	**NA**	**NA**	**5539**	**250**	**NA**	**190**	**80**	**5**	**0.01**	**0.004**	**0.01**	**0.05**	**0.05**	**5.4**	**1**	**0.2**	**0.05**	**0.1**	**0.238**	**NA**	**NA**	**12.1**	**1.6**	**4.7**	**15**
0515 A	N	10/6/1993	6,914.80	6.00	6.22	8235	454	1038	479	12.6	554	5500	225	0.94	38	255	1.87	< 0.001	< 0.01	< 0.01	0.13	< 0.05	9.81	< 0.1	0.27	< 0.001	< 0.1	0.004	3.5	7	10.5	< 0.2	2.6	3.9
0515 A	N	1/6/1994	6,914.70	5.50	6.13	8633	436	862	478	11.3	373	5042	227	2.18	45.7	315	2.92	< 0.001	< 0.01	< 0.01	0.15	< 0.05	12.1	< 0.1	0.26	< 0.001	< 0.1	0.004	5.4	2.8	8.2	< 0.2	< 1	10.6
0515 A	N	4/12/1994	6,914.40	5.70	5.98	8306	433	868	440	11.3	183	5305	223	2.17	51.9	277	1.51	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	10.6	< 0.1	0.21	0.001	< 0.1	0.03	4.8	< 1	4.8	< 0.2	3.9	5
0515 A	N	7/20/1994	6,913.90	5.60	6.91	8197	483	902	419	12.5	206	5157	195	0.97	45.6	271	1.42	< 0.001	< 0.01	< 0.01	0.18	< 0.05	11.4	< 0.1	0.25	0.001	< 0.1	0.002	4.2	9.3	13.5	< 0.2	< 1	24.2
0515 A	N	10/4/1994	6,914.00	5.60	6.62	8173	496	924	493	12.6	260	5276	236	1.64	51.8	241	2.45	< 0.001	< 0.01	< 0.01	0.16	< 0.05	15.3	< 0.1	0.31	< 0.001	< 0.1	0.003	6.6	3.7	10.3	< 0.2	1	12.3
0515 A	N	1/4/1995	6,913.70	5.50	6.69	8234	485	945	443	14.1	266	5293	212	1.42	49	213	1.7	< 0.001	< 0.01	< 0.01	0.11	< 0.05	10.2	< 0.1	0.42	< 0.001	< 0.1	0.004	6.2	4.7	10.9	< 0.2	< 1	13.4
0515 A	N	4/4/1995	6,913.40	5.60	5.91	7657	488	802	488	14.1	185	5196	240	2	58.5	182	2.04	< 0.001	< 0.01	< 0.01	0.13	< 0.05	11	< 0.1	0.15	< 0.001	< 0.1	0.002	4.7	7.5	12.2	< 0.2	2.9	16.1
0515 A	N	7/6/1995	6,912.90	5.80	7.09	8297	475	926	449	13.1	315	5060	236	3.99	49.7	181	0.25	< 0.001	< 0.01	< 0.01	0.02	< 0.05	2.52	< 0.1	< 0.05	0.002	< 0.1	0.0044	3	4.2	7.2	0.3	< 1	16.1
0515 A	N	10/3/1995	6,912.90	5.80	7.16	8311	490	928	477	13	421	5042	253	6.81	53.3	0.264	0.65	0.002	< 0.01	< 0.01	0.07	< 0.05	11.1	< 0.1	0.13	< 0.001	< 0.1	0.0057	3.6	< 1	3.6	< 0.2	< 1	13.6
0515 A	N	1/3/1996	6,912.70	5.80	6.43	8017	450	876	468	13.5	475	4830	252	5.6	56.9	236	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	11.4	< 0.1	0.14	< 0.001	< 0.1	0.0038	3.4	3.1	6.5	0.8	< 1	7.4
0515 A	N	4/2/1996	6,912.40	6.00	7.53	8300	506	997	457	14	392	5360	279	6.57	61	0.247	0.6	< 0.001	< 0.01	< 0.01	0.08	< 0.05	11.8	< 0.1	0.14	< 0.001	< 0.1	< 0.0003	2.4	3.9	6.3	< 0.2	< 1	5.4
0515 A	N	7/7/1996	6,912.20	5.30	5.94	8117	447	853	426	13.6	210	4670	250	1.76	54.7	0.211	1.42	< 0.001	< 0.01	< 0.01	0.11	< 0.05	12.9	< 0.1	0.17	< 0.001	< 0.1	0.0023	2.6	< 1	2.6	< 0.2	< 1	3.4
0515 A	N	10/1/1996	6,912.00	5.70	6.58	8270	441	910	457	14.5	342	4834	268	6.97	53.5	238	0.85	< 0.001	< 0.01	< 0.01	0.08	< 0.05	13.2	< 0.1	0.15	0.002	< 0.1	0.0028	2.1	5.4	7.5	< 0.2	< 1	3.8
0515 A	N	1/21/1997	6,911.90	5.60	6.77	8110	449	979	455	15	428	5140	253	8.03	46.8	239	0.97	< 0.001	< 0.01	< 0.01	0.07	< 0.05	12.2	< 0.1	0.14	< 0.001	< 0.1	0.004	2.9	3.6	6.5	< 0.2	< 1	2.5
0515 A	N	4/8/1997	6,911.70	5.50	7.37	8220	456	865	449	15	331	4388	294	6.41	58.5	230	0.75	< 0.001	< 0.01	< 0.01	0.07	< 0.05	12.1	< 0.1	0.15	0.069	< 0.1	0.0019	4.9	4.5	9.4	< 0.2	< 1	13
0515 A	N	7/8/1997	6,911.20	6.40	6.75	8260	502	950	466	15.1	296	5130	300	5.39	57.9	238	1.27	< 0.001	< 0.01	< 0.01	0.09	< 0.05	14.6	< 0.1	0.15	< 0.001	< 0.1	0.003	1.6	3.7	5.3	< 0.2	< 1	2.2
0515 A	N	10/7/1997	6,911.20	5.50	6.71	8200	490	906	450	14.6	254	4790	255	6.04	56.4	242	0.98	< 0.001	< 0.01	< 0.01	0.08	< 0.05	12.9	< 0.1	0.17	< 0.001	< 0.1	0.003	2.1	< 1	2.1	< 0.2	< 1	3.2
0515 A	N	1/15/1998	6,911.00	5.70	6.80	8040	455	860	439	14.7	228	4800	287	10.4	64.8	262	2	< 0.001	< 0.01	< 0.005	0.1	< 0.05	15.6	< 0.1	0.19	< 0.001	< 0.1	0.0025	2.3	4.8	7.1	< 0.2	< 1	2.4
0515 A	N	4/7/1998	6,911.00	5.50	7.14	8190	429	821	444	14.1	276	4420	257	6.47	58.9	236	0.78	< 0.001	< 0.01	< 0.005	0.08	< 0.05	12.1	< 0.1	0.17	< 0.001	< 0.1	0.0034	2.5	3.7	6.2	< 0.2	< 1	4.1
0515 A	N	7/7/1998	6,910.90	5.80	7.61	8170	481	912	456	14.5	291	4500	291	6.9	63.9	270	0.87	< 0.001	< 0.01	< 0.005	0.07	< 0.05	13.9	< 0.1	0.15	< 0.001	< 0.1	0.0031	2.9	4.2	7.1	< 0.2	< 1	3.8
0515 A	N	10/6/1998	6,910.50	5.69	7.32	8170	465	910	468	15.5	317	5000	286	3.89	70.5	no data	0.51	< 0.001	< 0.01	< 0.005	0.06	< 0.05	11.8	< 0.1	0.15	< 0.001	< 0.1	0.0049	2.3	1.2	3.5	< 0.2	2.8	210
0515 A	N	1/5/1999	6,910.00	5.70	7.18	8200	412	867	410	14.2	306	4900	287	6.47	57.4	210	0.69	< 0.001	< 0.01	0.011	0.05	< 0.05	12.3	< 0.1	0.12	< 0.001	< 0.1	0.0035	2.2	3.9	6.1	< 0.2	2.5	2.5
0515 A	N	4/6/1999	6,910.10	5.50	6.59	8130	444	889	404	13.7	292	4600	286	6.52	57.8	190	0.86	< 0.001	< 0.01	0.006	0.07	< 0.05	13.6	< 0.1	0.15	< 0.001	< 0.1	0.0029	3.4	4.8	8.2	< 0.2	3.1	3.1
0515 A	N	7/13/1999	6,909.88	5.70	7.42	7930	486	938	440	18	272	4800	254	4.52	62.6	172	0.4	< 0.001	< 0.01	0.006	0.05	< 0.05	13.6	< 0.1	0.13	< 0.001	< 0.1	0.0036	2.3	2.9	5.2	< 0.2	2	2
0515 A	N	10/5/1999	6,910.00	5.36	7.27	7950	526	1040	423	14.6	253	5440	272	6.64	55.6	183	1.02	< 0.001	< 0.01	0.008	0.07	< 0.05	16.6	< 0.1	0.15	< 0.001	< 0.1	0.0023	2.4	< 1	2.4	< 0.2	< 1	4.7
0515 A	N	1/4/2000	6,910.40	5.50	7.14	7720	414	810	338	13.7	222	4150	221	3.59	65.1	171	1.22	< 0.001	< 0.01	0.006	0.06	< 0.05	14	< 0.1	0.22	< 0.001	< 0.1	0.0025	3.2	4.2	7.4	< 0.2	< 1	3.7
0515 A	N	5/10/2000	6,910.60	5.50	7.01	8080	437	871	437	13.6	356	4440	261	9.79	62.8	198	2.44	< 0.001	< 0.01	< 0.005	0.06	< 0.05	11.8	< 0.1	0.18	< 0.001	< 0.1	0.0036	4.1	2.1	6.2	< 0.2	< 1	12
0515 A	N	7/11/2000	6,910.30	5.45	6.50	7740	458	866	428	13.4	242	4460	239	4.19	86.5	154	2.11	< 0.001	< 0.01	< 0.005	0.09	< 0.05	14.6	< 0.1	0.19	< 0.001	< 0.1	0.0021	2	3.6	5.6	< 0.2	< 1	4.6
0515 A	N	10/3/2000	6,910.40	5.47	6.70	7550	456	906	432	16.2	228	5060	236	2.56	70.1	181	2.08	< 0.001	< 0.01	< 0.005	0.07	< 0.05	11.6	< 0.1	0.15	< 0.001	< 0.1	0.0019	2.8	5.9	8.7	< 0.2	< 1	5.1
0515 A	N	1/10/2001	6,910.40	5.62	6.61	7610	440	816	364	12.9	222	4410	258	2.76	66.4	141	2.7	< 0.001	< 0.01	< 0.005	0.08	< 0.05	12.5	< 0.1	0.22	< 0.001	< 0.1	0.0017	2.6	6.3	8.9	< 0.2	< 1	3.4
0515 A	N	4/3/2001	6,910.30	5.85	6.54	7580	512	929	373	12.3	225	4640	247	2.85	68.5	148	2.9	< 0.001	< 0.01	< 0.005	0.1	< 0.05	13.3	< 0.1	0.25	< 0.001	< 0.1	0.0011	2.7	< 1	2.7	< 0.2	< 1	3.1
0515 A	N	7/17/2001	6,909.90	5.94	5.96	7770	420	810	421	14.1	225	4010	260	2.62	70.9	160	2.89	< 0.001	< 0.01	< 0.005	0.09	< 0.05	13.9	< 0.1	0.24	< 0.001	< 0.1	0.001	3.1	6	9.1	< 0.2	< 1	4.1
0515 A	N	10/2/2001	6,910.00	5.44	6.60	7780	430	820	351	14	217	4000	327	2	66.5	165	2.29	< 0.001	< 0.01	< 0.005	0.07	< 0.05	13.4	< 0.1	0.11	< 0.001	< 0.1	0.0009	3.1	4.5	7.6	< 0.2	< 1	6.3
0515 A	N	1/14/2002	6,909.85	6.56	6.30	7680	501	887	349	14.6	212	4410	305	2.07	60.5	149	3	0.002	< 0.01	< 0.005	0.1	< 0.05	15.8	< 0.1	0.26	< 0.001	< 0.1	0.0011	3.2	6.6	9.8	< 0.2	< 1	3.5
0515 A	N	4/2/2002	6,910.00	5.41	6.57	7670	492	855	412	15.2	214	4790	279	1.75	61.9	162	2.9	< 0.001	< 0.01	< 0.005	0.09	< 0.05	15.3	< 0.1	0.23	< 0.001	< 0.1	0.0009	3.4	2.9	6.3	< 0.2	< 1	6
0515 A	N	7/10/2002	6,909.30	7.25	6.33	7750	470	850	401	13.4	211	4420	250	2.39	61.5	162	2.4	< 0.001	< 0.01	< 0.005	0.09	< 0.05	12.4	< 0.1	0.18	< 0.001	< 0.1	0.0013	3.6	6.8	10.4	< 0.2	< 1	8
0515 A	N	10/9/2002	6,910.87	6.54	6.61	6900	428	778	386	12.5	210	4270	228	2.95	63	203	3.1	< 0.001	< 0.01	< 0.005	0.08	< 0.05	13.3	< 0.1	0.2	< 0.001	< 0.1	0.002	3.5	3.1	6.6	< 0.2	< 1	9.3
0515 A	N	1/8/2003	6,909.16	7.08	6.74	7640	385	720	392	13.1	209	3810	223	3.16	57	162	2.4	< 0.001	< 0.01	< 0.005	0.09	< 0.05	14.8	< 0.1	0.21	< 0.001	< 0.1	0.0012	4	5.4	9.4	< 0.2	< 1	5
0515 A	N	4/9/2003	6,908.81	5.31	6.37	7680	443	816	402	18.9	198	4050	270	2.81	58	166	2.4	< 0.001	< 0.01	< 0.005	0.09	< 0.05	13.8	< 0.1	0.22	< 0.001	< 0.1	0.0011	3.3	7	10.3	< 0.2	< 1	3.5
0515 A	N	7/9/2003	6,908.68	5.25	6.41	6250	450	814	450	14.5	203	4500	246	3.11	61	237	2.6	< 0.001	< 0.01	< 0.005	0.09	< 0.05	15.7	< 0.1	0.26	< 0.001	< 0.1	0.0008	2.4	6.3	8.7	< 0.2	< 1	3.9
0515 A	N	10/8/2003	6,908.80	5.24	6.20	7800	453	843	427	12.4	190	4470	232	2.98	59	148	2.6	< 0.001	< 0.01	< 0.005	0.09	< 0.05	14.8	< 0.1	0.25	< 0.001	< 0.1	0.0014	2.2	2.5	4.7	< 0.2	< 1	5.3
0515 A	N	1/7/2004	6,909.85	5.38	7.38	7680	512	916	445	14.3	193	4850	275	3.24	60.2 D	124 D	3	< 0.001	< 0.01	< 0.005	0.09	< 0.05	17.4	< 0.1	0.24	< 0.001	< 0.1	0.0012 D	2.3	< 1.0	2.3	< 0.2	< 1.0	7.5
0515 A	N	4/7/2004	6,908.45	5.62	5.65	7720	476	847	431	13.6	202	4540 D	253	3.6	60.9 D	167 D	2.8	< 0.001	< 0.01	< 0.005	0.09	< 0.05	16.3	< 0.1	0.25	0.007	< 0.1	0.0011 D	1.4	4.2	5.6	< 0.2	< 1	7.3
0515 A	N	7/14/2004	6,908.21	5.22	5.91	8010	470	815	426	14.3	200	4590 D	262	2.88	57.4 D	147 D	2.1	< 0.001	< 0.01	< 0.005	0.08	< 0.05	14.6	< 0.1	0.2	< 0.001	< 0.1	0.0011 D	1.7	< 1.0	1.7	< 0.2	< 1.0	4.6
0515 A	N	10/6/2004	6,908.21	5.33	5.92	8000	473 D	857 D	440	13.9	199	4700 D	253	2.94	58 D	110 D	2	< 0.001	< 0.01	< 0.005	0.08	< 0.05	14.8	< 0.1	0.11	< 0.001	< 0.1	0.0009 D	2.3	2.5	4.8	< 0.2	< 1.0	3.5
0515 A	N	1/5/2005	6,908.03	5.52	5.83	7910	486 D	871 D	432	14	213	4770 D	256	3.22	57 D	41.6 D	2.2	< 0.001	< 0.01	0.006	0.09	< 0.05	15	< 0.1	0.25	0.002	< 0.1	0.001	4.2	1.8	6	< 0.2	< 1.0	10.9
0515 A	N	4/6/2005	6,907.60	5.59	6.17	7530	483	849	436	13.8	207	4490	255	3.45	45	102	1.7	< 0.001	< 0.01	< 0.005	0.06	< 0.05	16	< 0.1	0.25	< 0.001	< 0.1	0.001	3.3	1.1	4.4	< 0.2	< 1.0	1.9
0515 A	N	7/13/2005	6,907.49	5.55	6.33	7690	500 D	845 D	425 D	12.7	199	4640 D	235	3.63	65.3 D	228 D	1.2	< 0.001	< 0.01	< 0.005	0.06	< 0.05	15.6	< 0.1	0.24	< 0.001	< 0.1	0.0008	2.6	1.5	4.1	< 0.2	< 1.0	2.8
0515 A	N	10/5/2005	6,907.48	5.53	6.10	7710	455 D	875 D	427	14.3	209	4540 D	242	4.15	52 D	161 D	1.3	< 0.001	< 0.01	< 0.005	0.07	< 0.05	15.4	< 0.1	0.25	< 0.001	< 0.1	0.0009 D	1.9	1.3	3.2	< 0.2	< 1.0	3.1
0515 A	N	1/11/2006	6,907.55	5.65	6.42	7560	477 D	872 D	403	13.5	214	4930 D	237	4.94	63 D	142 D	0.9	< 0.001	< 0.01	< 0.005	0.05	< 0.05	15.3	< 0.1	0.23	0.008	< 0.1	0.0009	1.5	1.1	2.6	< 0.2	< 1.0	2.8
0515 A	N	4/5/2006	6,907.45	5.53	6.34	7620	489 D	861 D	397	14.1	211	4410 D	253	8.01	63 D	114 D	1.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	16.7	< 0.1	0.25	0.008	< 0.1	0.0008 D	1.3	< 1.0	1.3	< 0.2	< 1.0	2.6
0515 A	N	7/19/2006	6,906.83	5.54	5.97	7460	494 D	825 D	436	14.1	215	4540 D	253	4.61	62 D	173 D	0.7	< 0.001	< 0.01	< 0.005	0.05	< 0.05	14.7	< 0.1	0.22	< 0.001	< 0.1	0.0007	1.6	1.8	3.4	< 0.2	< 1.0	1.7
0515 A	N	10/4/2006	6,907.00	5.61	5.86	7710	461 D	813 D	423	14.4	202	4280 D	238	5.84	61 D	176 D	0.9	< 0.001	< 0.01	< 0.005	0.05	< 0.05	16.1	< 0.1	0.24	< 0.001	< 0.1	0.0021 D	1.3	4	5.3	< 0.2	< 1	1.2
0515 A	N	1/10/2007	6,906.88	5.57	5.86	7850	448 D	807 D	388	14	220	4640 D	245	5.2 D	58 D	105	0.4	<0.001	<0.01	<0.005	0.04	<0.05	15.1	<0.1	0.2	<0.001	<0.1	0.0006	2	<1	2	<0.2	<1	1.4
0515 A	N	4/11/2007	6,906.77	5.61	6.12	7770	475 D	874 D	424	16	<1	4800 D	246	5.87	63 D	134	0.8	<0.001	<0.01	<0.005	0.06	<0.05	15.5	<0.1	0.24	<0.001	<0.1	0.0009	1.3	3.4	4.7	<0.2	<1	2.3
0515 A	N	7/11/2007	6,906.38	5.54	6.02	7590	492 D	876 D	419	14.6	216	4880 D	240	8 D	68 D	157	0.2	0.003	<0.01	<0.005	0.05	<0.05	16.2	<0.1	0.24	<0.001	<0.1	0.0007	2.5	<1	2.5	<0.2	<1	1.7
0515 A	N	10/3/2007	6,906.33	5.40	5.96	7880	436 D	823 D	445 D	15.9	217	4440 D	255 D	6.2 D	61 D	168	0.5	<0.001	<0.01	<0.005	0.04	<0.05	16.8	<0.1	0.21	<0.001	<0.1	0.0006	1.3	<1	1.3	<0.2	<1	4.5
0515 A	N	1/16/2008	6,906.43	5.1	6.37	7470	454 D	819 D	444 D	16.1	202	4340 D	266 D	6.8 D	64 D	227	0.7	< 0.001	< 0.01	< 0.005	0.05	< 0.05	15.9	< 0.1	0.24	< 0.001	< 0.1	0.0007	2	2.7	4.7	< 0.2	< 1	6.6
0515 A	N	4/9/2008	6,906.43	5.64	6.37	7450	493 D	926 D	485 D	15.8 D	190	5050 D	235	7.7 D	78.6	22.6	1.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	18	< 0.1	0.27	< 0.001	< 0.1	0.0009	0.5	3	3.5	1.4	0 U	8.1
0515 A	N	7/9/2008	6,905.93	5.44	6.1	7460	493 D	897 D	484 D	15.3	212	4960 D	266	4.99	91.8 D	107	0.4	< 0.003	< 0.01	< 0.005	0.04	< 0.05	18.6	< 0.1	0.25	< 0.001	< 0.1	0.0011	1	3.1	4.1	-0.1 U	8.5 U	2.2

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0515 A	N	10/8/2008	6,905.73	5.64	5.75	7770	460	832	430 D	14	202	5200 D	242	9.9	73.8	128	0.6	< 0.001	< 0.01	< 0.005	0.04	< 0.05	17.6	< 0.1	0.24	< 0.001	< 0.1	0.0011	0.64	3.4	4.04	0.3	1 U	3
0515 A	N	1/14/2009	6,905.73	5.73	6.19	8190	420	825	478	13 D	219	5080 D	248	12.6 D	86 D	76.8	0.9	<0.001	<0.01	<0.005	0.03	<0.05	17.6	<0.1	0.21	<0.001	<0.1	0.0009 D	1.3	3.5	4.8	-0.3 U	-3 U	2.4
0515 A	N	4/8/2009	6,905.68	5.66	6.31	7750	438 D	845 D	462 D	15	297	4980 D	275	12.2 D	59.2 D	64.4	0.7	<0.001	<0.01	<0.005	0.03	<0.05	17	<0.1	0.22	<0.001	<0.1	0.0008 D	1.1	3.2	4.3	0.2 U	-3 U	2.5
0515 A	N	7/8/2009	6,905.33	5.61	6	7760	480 D	840	451 D	15	219	4960 D	258	13.6 D	58 D	72.4	1.2	<0.001	<0.01	<0.005	0.03	<0.05	17.5	<0.1	0.22	<0.001	<0.1	0.0009	1.9	4.2	6.1	0.04 U	1.9 U	2.9
0515 A	N	10/7/2009	6,905.43	6.32	6.9	7800	471 D	831	434 D	15	200	4960 D	258	10.0 D	64 D	46.4	0.6	<0.001	<0.01	<0.005	0.04	<0.05	18.4	<0.1	0.29	<0.001	<0.1	0.0008	0.91	2.9	3.81	0.1 U	-2 U	2.6
0515 A	N	1/6/2010	6,905.13	6.44	7.4	8110 D	475 D	865	471 D	16	198	5230 D	256	14.4 D	89 D	30.4	0.3	<0.001	<0.01	<0.005	0.03	<0.05	17.8	<0.1	0.21	<0.001	<0.1	0.0009	1.2	3.5	4.7	0.04 U	0.0 U	2.5
0515 A	N	4/7/2010	6,904.88	6.26	6.82	7790 D	467 D	822	465 D	16	218	4930 D	240	15.7 D	62 D	168	0.9	<0.001	<0.01	<0.005	0.03	<0.05	16.8	<0.1	0.23	<0.001	<0.1	0.001	2.5	2.9	5.4	0.04 U	-2 U	2.6
0515 A	N	7/14/2010	6,904.43	6.3	6.15	8160 D	463 D	997	525 D	17	231	5010 D	255 D	34 D	50 D	156	0.9	<0.001	<0.01	<0.005	0.03	<0.05	16.1	<0.1	0.2	<0.001	<0.1	0.0011	2.8	3.8	6.6	0.07 U	3.1	2.9
0515 A	N	10/6/2010	6,904.58	7.13	6.35	7880 D	463 D	975	540 D	18	365	5370 D	286 D	41.5 D	52 D	158	0.6	<0.001	<0.01	<0.005	0.02	<0.05	16.6	<0.1	0.17	<0.001	<0.1	0.0027	2.5	3.4	5.9	0.02 U	0.8 U	1.6
0515 A	N	1/5/2011	6,904.43	7.21	7.06	7880 D	467 D	936	506 D	17	321	5060 D	288 D	29 D	53 D	204	0.3	<0.001	<0.01	<0.005	0.02	<0.05	16.7	<0.1	0.18	<0.001	<0.1	0.0026	2.2	3.4	5.6	0.02 U	0.3 U	2.7
0515 A	N	4/5/2011	6,904.48	6.83	6.59	8690 D	454	1070	588 D	20	417	5420 D	319 D	36 D	49 D	116	0.1	<0.001	<0.01	<0.005	0.02	<0.05	15.4	<0.1	0.16	<0.001	<0.1	0.0047 B	1.3	3.3	4.6	0.06 U	-0.9 U	2
0515 A	N	7/13/2011	6,904.23	6.79	7.54	9520 D	480	1220	636 D	20	729	5970 D	363 D	35 D	44 D	84.4	0.8	<0.001	<0.01	<0.005	0.02	<0.05	13.7	<0.1	0.11	<0.001	<0.1	0.0081	1.4	2.5	3.9	0.1 U	0.5 U	1.8
0515 A	N	10/5/2011	6,904.26	6.12	7.37	9740 D	455	1180	595 D	20	727	5990 D	360 D	40 D	44 D	83.6	0.1	<0.001	<0.01	<0.005	0.02	<0.05	11.6	<0.1	0.1	<0.001	<0.1	0.0074	1.9	2.2	4.1	0.01 U	-0.4 U	1.6
0515 A	N	1/4/2012	6,904.08	6.13	6.51 H	9920 D	533	1290	642	24	729	6030 D	361 D	44 D	42 D	146	1.4	<0.001	<0.01	<0.005	0.02	<0.05	11.1	<0.1	0.09	<0.001	<0.1	0.0094	1.3	2.5	6.3	0.0 U	0.09 U	1.8
0515 A	N	4/4/2012	6,903.96	6.18	6.13 H	10400 D	419	1120	557	21	818	6080 D	363 D	36.0 D	46 D	124	2.3	<0.001	<0.01	<0.005	0.02	<0.05	10.8	<0.1	0.1	0.002	<0.1	0.0104	1.2	2.5	6.2	0.03 U	0.8 U	2.3
0515 A	N	7/11/2012	6,903.68	5.97	6.20 H	10300	445	1210	575 D	19	872	6120 D	379 D	41 D	45 D	366	4.7	<0.001	0.001	<0.005	0.02	0.004	13.1	<0.1	0.09	0.003	<0.1	0.0131	2.1	4.1	10.3	0.1 U	0.7 U	1.6
0515 A	N	10/10/2012	6,903.53	6.04	6.06 H	9870	458	1260	604 D	20	893	6160 D	383 D	28 D	39 D	416	1.4	<0.001	<0.001	<0.005	0.02	0.002	8.12	<0.1	0.13	0.001	<0.1	0.0125	2	3.3	5.3	0.04 U	0.2 U	1.6
0515 A	N	1/15/2013	6,903.54	5.98	6.02 H	9970	460	1360	636 D	20	881	6390 D	378 D	32 D	40 D	420	0.7	<0.001	<0.001	<0.005	0.01	0.003	7.58	<0.1	0.1	0.002	<0.1	0.0105	2.6	4.3	6.9	-0.004 U	0.3 U	1.7
0515 A	N	4/3/2013	6,903.40	6.04	6.14 H	10400	452	1290	603 D	18	916	6390 D	392 D	32 D	41 D	456	1.2	<0.001	<0.001	<0.005	0.02	0.003	7.88	<0.1	0.1	0.001	<0.1	0.0114	2.3	5.2	7.5	0.02 U	-0.2 U	2.1
0515 A	N	7/10/2013	6,903.06	5.89	6.18 H	10500	447	1330	594 D	18	882	6320 D	452 D	30 D	43 D	484	1.3	<0.001	<0.001	<0.005	0.02	0.003	8.54	<0.1	0.1	0.002	<0.1	0.0101	1.4	3.7	5.1	0.07 U	0.4 U	4.3
0515 A	N	10/2/2013	6,903.14	6.01	6.53 H	10400	457	1340	609 D	19	861	6360 D	383 D	27.9 D	39 D	116	0.3	<0.001	<0.001	<0.005	0.02	0.002	7.98	<0.1	0.11	0.001	<0.1	0.0108	2	3	5	0.04 U	0.3 U	4.1
0515 A	N	1/8/2014	6,903.10	6.17	6.22	10100	445	1280	588	18	839	6390	384	29	42	51.6	0.3	<0.001	<0.001	<0.005	0.02	0.002	7.76	<0.1	0.12	0.001	<0.1	0.0093	2.2	3.6	5.8	0.1 U	0.6 U	4.8
0515 A	N	4/1/2014	6,903.21	6.13	6.15 H	10400	454	1310	638 D	19	907	6380 D	395 D	23.6 D	42 D	251 E	0.5	<0.001	<0.001	<0.005	0.02	0.002	7.7	<0.1	0.1	0.003	<0.1	0.0112	2	4.7	6.7	0.02 U	0.8 U	4.9
0515 A	N	7/8/2014	6,902.67	6.21	6.18 H	10200	446	1310	623 D	19	846	6330 D	371 D	23 D	41 D	248	0.7 D	<0.001	<0.001	<0.005	0.02	0.001	7.82	<0.1	0.09	0.002	<0.1	0.0081	1.7	4.6	6.3	0.04 U	0.7 U	3.2
0515 A	N	10/7/2014	6,902.66	6.08	6.07 H	10500	445	1310	566 D	15	861	6350 D	375 D	25.3 D	39 D	247	<0.1	<0.001	<0.001	<0.005	0.02	0.001	7.5	<0.1	0.1	0.002	<0.1	0.0114	3.7	4.6	8.3	0.02 U	0.4 U	2.1
0515 A	N	1/6/2015	6,902.43	6.19	6.07 H	10400	461	1360	598	17	838	6560 D	431 D	25.6 D	40 D	303	0.5	<0.001	<0.001	<0.005	0.02	0.001	7.6	<0.1	0.09	0.001	<0.1	0.0094	2.6	3.8	6.4	0.05 U	0.8 U	3.8
0515 A	N	4/7/2015	6,902.59	5.99	6.23 H	10700	453	1320	594 D	17	855	6280 D	383 D	24 D	38 D	186	0.5	0.001	<0.001	<0.005	0.02	0.002	6.96	<0.1	0.12	0.002	<0.1	0.0082	3.2	4.5	7.7	0.1 U	-0.4 U	12.2
0515 A	N	7/7/2015	6,902.34	5.98	6.22 H	10600	414	1240	578	19	887	6580 D	393 D	28 D	36 D	218	0.2	<0.001	<0.001	<0.005	0.02	<0.001	6.67	<0.1	0.1	0.003	<0.1	0.0081	1.6	1.8	3.4	0.03 U	0.1 U	5.3
0515 A	N	10/6/2015	6,902.17	6.07	6.05 H	10600	434	1310	578	17	830	6580 D	395 D	22 D	35 D	214	0.3	<0.001	<0.001	<0.005	0.02	<0.001	8.01	<0.1	0.08	0.003	<0.1	0.009	3	7.6	10.6	0.07 U	0.04 U	18
0515 A	N	1/5/2016	6,902.32	6.18	6.09 H	10500	458	1390	605	17	893	6360 D	383 DH	23 D	40 D	155	0.3	<0.001	<0.001	<0.005	0.02	<0.001	7.34	<0.1	0.07	0.002	<0.1	0.0104	1.8	4.6	6.4	0.2 U	-0.1 U	9.2
0515 A	N	4/5/2016	6,901.93	6.04	6.41 H	10500	449	1330	582	17	827	6610 D	390 D	23 D	37 D	23.5	0.3	0.001	<0.001	<0.005	0.02	0.002	7.58	<0.1	0.11	0.003	<0.1	0.0097	1.9	4.2	6.1	-0.01 U	0.0 U	8.2
0515 A	N	7/12/2016	6,901.83	6.05	6.16 H	11000	435	1340	588	17	880	6750 D	406 D	24 D	40 D	236	0.4	<0.001	<0.001	<0.005	0.02	0.002	7.86	<0.1	0.11	0.002	<0.1	0.0085	2.1	5.9	8	0.1 U	-0.2 U	6.4
0515 A	N	10/4/2016	6,901.96	6.14	6.13 H	10200	458	1370	599 D	17	835	6590 D	381 D	23 D	40 D	329	0.3	<0.001	0.002	<0.005	0.02	0.002	7.55	<0.1	0.1	<0.001	<0.1	0.0079	2.2	2.6	4.8	0.08 U	0.3 U	6.4
0515 A	N	1/10/2017	6,901.78	6.14	6.33 H	10400 D	472	1310	585	18	829	6540 D	386 D	24 D	43 D	170	0.2	<0.001	<0.001	<0.005	0.02	0.002	8.89	<0.1	0.11	0.002	<0.1	0.0088 D	1.5	2.7	4.2	0.08 U	0.3 U	8.6
0515 A	N	4/4/2017	6,901.74	5.95	6.22 H	10000 D	452	1320	593 D	19 D	828	6640 D	395 D	23 D	42 D	131	0.1	<0.001	<0.001	<0.005	0.02	0.003	7.86	<0.1	0.1	0.002	<0.1	0.0072	1.7	3	4.7	0.3	0.3 U	3.8
0515 A	N	7/11/2017	6,901.38	6.02	6.21 H	10500 D	433	1260	567 D	18	829	6040 D	371 D	21 D	40.0 D	340	<0.1	0.001	<0.001	<0.005	0.02	<0.001	8.46	<0.1	0.11	0.003	<0.1	0.0084	1.5	2.7	4.2	0.2 U	1.6 U	2.7
0515 A	N	10/3/2017	6,901.35	5.98	6.14 H	10000 D	455 D	1320	603 D	18	862	5800 D	364 D	21 D	35.9 D	305	0.2 D	<0.001	<0.001	<0.005	0.02	<0.001	8.04	<0.1	0.11	0.003	<0.1	0.0093	2	6.5	8.5	-0.0005 U	1.3	2.9
0515 A	N	1/9/2018	6,901.13	6.17	6.29 H	10500 D	453 D	1340	592 D	18 D	787	6550 D	386 D	23 D	39.5 D	151	0.18 D	0.001	<0.001	0.001	0.026	0.001	8.00 D	<0.001	0.105	0.003	<0.01	0.0089	1.7	4.9	6.6	0.7	0.7 U	2.7
0515 A	N	4/3/2018	6,901.26	6.00	6.35 H	10700 D	448	1280	587 D	16	791	6730 D	396 D	18 D	40 D	137	0.17	<0.001	<0.001	0.001	0.023	<0.001	7.92	<0.001	0.106	0.003	<0.01	0.007	2	2.7	4.7	0.5	1.8	4.5
0515 A	N	7/10/2018	6,900.87	6.02	6.32 H	10600 D	424	1200	552	15	806	6040 D	364 D	20 D	40.0 D	74	0.21	<0.001	<0.001	0.002	0.023	0.003	7.41	0.005	0.111	0.005	<0.01	0.0085	1.9	3.8	5.7	0.1 U	0.5 U	2.4
0515 A	N	10/2/2018	6,900.91	6.13	6.24 H	10700 D	448	1340	598 D	17	823	6510 D	379 D	17 D	41.6 D	240	0.32	<0.001	<0.001	0.001	0.023	0.002	6.9	<0.001	0.093	0.003	<0.01	0.0083	2.4	5.7	8.1	0.06 U	1.4	7.2
0515 A	N	1/8/2019	6,900.50	6.03	6.29 H	10800 D	457 D	1320	611 D	17D	815	6490 D	367 D	19 D	38 D	268	1.01	no data	<0.001	0.001	0.023	0.006	7.08	<0.001	0.105	no data	<0.01	0.0085	1.4	5	6.4	0.07 U	0.4 U	5.6
0515 A	N	4/9/2019	6,900.96	6.02	6.25 H	10800 D	431	1360	612	16	841	6430 D	375 D	17 D	37 D	72	0.22	0.002	<0.001	0.001	0.025	0.001	7.51 D	<0.001	0.103	0.071	<0.01	0.0091	2.1	2.9	5	0.07 U	0.9 U	3.4
0515 A	N	7/23/2019	6,900.54	6.04	6.16 H	10900 DH	425	1320	569	17	838	6430 D	374 D	17. D	36.3 D	290	1.04 D	<0.001	<0.001	0.001	0.023	0.001	6.79 D	<0.001	0.097	0.072	<0.01	0.0091 D	1.8	4	2.2	-0.02 U	1.1	2.3
0515 A	N	10/1/2019	6,900.59	6.02	6.09 H	10500 DH	445	1270	580	19	766	6280 D	365 D	17 D	36 D	390	0.41 D	<0.001	<0.001	0.001	0.023	0.001	6.62 D	<0.001	0.099	0.068	<0.01	0.0082 D	2.2	4.9	7.1	0.2 U	0.2 U	3.4
0516 A	N	7/23/1989	6,918.70	4.20	4.08	12629	454	1519	399	9.29	0	8605	207	30.5	146	< 1	240	< 0.001	< 0.05	< 0.01	0.45	< 0.05	37	< 0.1	0.051	< 0.001	< 0.1	0.0023	13.6	8.3	21.9	< 0.2	2.9	53.8
0516 A	N	10/12/1989	6,918.50	4.40	4.22	11560	449	1343	358	13.6	0	6992	264	39.8	188	< 1	150	< 0.001	< 0.05	< 0.01	0.4	0.12	29	< 0.01	0.41	0.01	< 0.1	0.005	2.9	18.5	21.4	< 0.2	1.8	2.5
0516 A	N	1/10/1990	6,917.80	4.40	4.31	10892	463	1281	409	11.7	< 1	6654	230	25	181	< 1	110	< 0.001	< 0.05	< 0.01	0.42	< 0.05	25	< 0.1	0.35	< 0.001	< 0.1	0.003	2.9	4.8	7.7	< 0.2	< 1	3.5
0516 A	N	4/6/1990	6,917.40	4.50	4.27	11343	463	1300	379	12.1	< 1	6989	216	57.3	186	< 1	130	< 0.001	< 0.05	< 0.01	0.35	< 0.05	27	< 0.1	0.34	< 0.001	< 0.1	0.004	3.7	2.9	6.6	< 0.2	< 1	4
0516 A	N	7/3/1990	6,916.40	4.20	4.28	11462	472	1212	359	10.2	< 1	7003	216	95.5	208	< 1	144	< 0.001	< 0.05	< 0.01	0.25	< 0.05	28	< 0.1	0.45	0.001	< 0.1	0.0029	3.4	2.9	6.3	< 0.2	< 1	3
0516 A	N	10/9/1990	6,915.60	4.60	4.51	10430	429	1243	416	13.3	0.1	6467	203	78	208	< 1	80.3	< 0.001	< 0.05	< 0.01	0.25	< 0.05	21.9	< 0.1	0.3	< 0.001	< 0.1	0.0035	3.3	4.6	7.9	< 0.2	< 1	4
0516 A	N	1/15/1991	6,915.10	4.60	4.50	10179	482	1207	436	19.4	< 1	5983	261	80.8	240	< 1	42.6	< 0.001	0.01	< 0.01	0.24	< 0.05	20.6	< 0.1	0.32	< 0.001	< 0.1	0.0028	6.5	6.4	12.9	< 0.2	< 1	6.7
0516 A	N	4/2/1991	6,914.40	4.90	4.99	10493	464	1250	387	13.4	25	6165	267	97.9	240	< 1	20.5	< 0.001	< 0.01	< 0.01	0.19	< 0.05	20.3	< 0.1	0.26	< 0.001	< 0.1	0.0003	6	6.8	12.8	< 0.2	3.3	6
0516 A	N	7/17/1991	6,913.80	4.80	5.75	9771	430	1097	390	12.8	100	6873	326	74	281	< 1	12.3	< 0.001	< 0.01	< 0.01	0.22	< 0.05	18.7	< 0.1	0.27	0.002	< 0.1	0.001	2.3	3.1	5.4	< 0.2	< 1	2
0516 A	N	9/4/1991	no data	no data	5.58	10598	444	1299	394	13.2	173	6936	215	144	59	< 1	8.6	< 0.001	< 0.01	< 0.01	0.21	< 0.05	17.7	< 0.1	0.32	0.001	< 0.1	0.0021	1.5	4.7	6.2	< 0.2	1.2	2
0516 A	N	10/15/1991	6,911.40	5.10	6.39	9878	450	1068	451	16.5	213	6047	275	99	234	< 1	4.18	< 0.001	< 0.01	< 0.01	0.18	< 0.05	15.3	< 0.1	0.22	0.002	< 0.1	0.004	1.3	9.5	10.8	< 0.2	< 1	1
0516 A	N	11/4/1991	no data	no data	5.88	10139	490	875	392	13.6	381	5597	299	113	135	1.7	5.84	< 0.001	< 0.01	< 0.01	0.12	< 0.05	15.3	< 0.1	0.17	0.002	< 0.1	0.0157	2	8.3	10.3	< 0.2	2.3	2
0516 A	N	12/2/1991	no data	no data	6.35	9819	471	879	375	13.8	340	5046	259	132	147	1.3	3.2	< 0.001	< 0.01	< 0.01	0.14	< 0.05	11.6	< 0.1	0.19	< 0.001	< 0.1	0.0009	4	7.8	11.8	< 0.2	< 1	4
0516 A	N	1/15/1992	6,913.20	4.90	4.70	9588	403	1186	364	11.9	21.6	6079	241	201	93.5	1.2	22.2	< 0.001	0.01	< 0.01	0.21	< 0.05	19.2	< 0.1	0.29	0.063	< 0.1	0.063	2.4	8.9	11.3	< 0.2	< 1	2
0516 A	N	4/8/1992	6,912.90	4.90	5.51	10129	444	669	395	15.1	83	6152	369	117	97.1	1.6	11.4	0.002	0.01	< 0.01	0.2	< 0.05	15.8	< 0.1	0.22	0.001	< 0.1	0.001	1.8	9.8	11.6	< 0.2	< 1	2

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
0516 A	N	7/8/1992	6,912.40	4.80	6.21	9577	495	916	413	25.2	117	6065	234	129	119	1.4	6.56	< 0.001	< 0.01	< 0.01	0.17	< 0.05	16.2	< 0.1	0.21	< 0.001	< 0.1	0.002	2.1	7.2	9.3	< 0.2	2.6	2.5
0516 A	N	10/7/1992	6,912.20	5.00	5.19	9800	492	1090	433	17.2	73.2	6244	229	80.1	15.9	1.3	29.3	0.001	< 0.01	< 0.01	0.23	< 0.05	18	< 0.1	0.28	0.003	< 0.1	< 0.0003	4.1	5.9	10	< 0.2	3	4.6
0516 A	N	1/6/1993	6,912.10	5.10	5.70	8137	502	889	398	15.5	168	5252	245	93.7	144	2.1	7.8	< 0.001	0.01	< 0.01	0.41	< 0.05	16	< 0.1	0.37	0.009	< 0.1	0.005	3.5	3.6	7.1	< 0.2	< 1	3.9
0516 A	N	4/6/1993	6,911.80	5.40	6.26	9954	423	1037	456	13.7	250	6106	252	112	141	1.8	2.9	< 0.001	< 0.01	< 0.01	0.14	< 0.05	13	< 0.1	0.21	0.001	< 0.1	0.004	1.8	1.4	3.2	< 0.2	2.6	2
0516 A	N	7/13/1993	6,911.20	5.60	6.48	9291	485	1102	401	14.4	421	5879	241	92.9	142	2.3	2	< 0.001	< 0.01	< 0.01	0.13	< 0.05	10.3	< 0.1	0.17	0.005	< 0.1	0.003	1.5	4.2	5.7	< 0.2	3	2
0516 A	N	10/7/1993	6,910.50	5.80	6.16	9168	481	1109	417	13.3	348	5596	255	101	169	1.6	2.4	< 0.001	< 0.01	< 0.01	0.18	< 0.05	12.4	< 0.1	0.22	0.002	< 0.1	0.007	3.7	4	7.7	< 0.2	< 1	4
0516 A	N	1/6/1994	6,910.70	5.70	6.26	10048	478	1044	445	12.7	477	5747	237	112	150	2.5	2.87	< 0.001	< 0.01	< 0.01	0.11	< 0.05	10.2	< 0.1	0.15	< 0.001	< 0.1	0.001	3.6	1.5	5.1	< 0.2	< 1	6.8
0516 A	N	4/12/1994	6,910.20	5.80	6.52	9862	472	1121	413	14.6	610	5815	249	138	155	0.87	0.97	< 0.001	< 0.01	< 0.01	0.08	< 0.05	7.8	< 0.1	0.14	0.001	< 0.1	0.003	2.9	5.5	8.4	< 0.2	1.5	11.3
0516 A	N	7/20/1994	6,906.80	6.00	6.96	10276	526	1293	389	17.6	953	6286	246	149	157	2.04	0.46	< 0.001	< 0.01	< 0.01	0.05	< 0.05	4.95	< 0.1	0.08	< 0.001	< 0.1	0.011	3.8	3.1	6.9	< 0.2	< 1	8.6
0516 A	N	10/4/1994	6,909.50	6.20	7.37	10221	533	1221	488	17.2	949	6371	249	164	138	1.6	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	5.22	< 0.1	< 0.05	0.001	< 0.1	0.013	4.3	< 1	4.3	< 0.2	3.4	4.5
0516 A	N	1/4/1995	6,909.10	6.10	7.01	10761	495	1245	458	19	939	6901	255	198	130	1.8	0.24	< 0.001	< 0.01	< 0.01	0.04	< 0.05	4.74	< 0.1	0.08	< 0.001	< 0.1	0.01	1.4	2.9	4.3	< 0.2	2	5.9
0516 A	N	4/5/1995	6,908.80	6.10	6.36	10757	505	1275	478	20.7	1069	6510	255	180	133	1.3	0.12	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.74	< 0.1	< 0.05	0.001	< 0.1	0.016	1.4	2.2	3.6	< 0.2	3.1	4.9
0516 A	N	7/6/1995	6,903.90	6.20	7.21	10428	491	1290	476	18.7	1302	6259	258	164	129	1.9	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.7	< 0.1	< 0.05	0.003	< 0.1	0.0183	0.9	< 1	0.9	0.2	< 1	2
0516 A	N	10/3/1995	6,903.70	6.10	7.44	10761	527	1298	450	19.4	1332	6394	238	178	126	1.72	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.54	< 0.1	< 0.05	0.001	< 0.1	0.0256	1.3	< 1	1.3	< 0.2	< 1	2.5
0516 A	N	1/3/1996	6,908.20	6.40	7.03	11314	469	1340	485	18.5	1302	6480	237	137	142	1.76	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.34	< 0.1	< 0.05	< 0.001	< 0.1	0.014	1.1	1.4	2.5	< 0.2	1.7	2.7
0516 A	N	4/2/1996	6,904.10	6.40	7.29	11345	527	1530	491	19	1320	7150	259	152	146	2.09	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	2.1	< 0.1	< 0.05	< 0.001	< 0.1	0.014	0.8	< 1	0.8	< 0.2	< 1	1.4
0516 A	N	7/7/1996	6,904.20	6.10	7.15	11529	465	1480	485	19.6	1309	6190	240	150	134	2.56	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2	< 0.1	< 0.05	< 0.001	< 0.1	0.018	0.7	< 1	0.7	< 0.2	< 1	< 1
0516 A	N	10/1/1996	6,903.80	6.40	6.93	11500	494	1600	485	18.9	1270	6640	247	149	128	2.13	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	2.2	< 0.1	< 0.05	0.002	< 0.1	0.013	0.9	< 1	0.9	< 0.2	< 1	< 1
0516 A	N	1/22/1997	6,903.70	6.10	7.36	11200	510	1560	481	20.5	1420	6760	241	155	110	2.46	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.79	< 0.1	< 0.05	< 0.001	< 0.1	0.016	1.2	3.2	4.4	< 0.2	< 1	< 1
0516 A	N	4/8/1997	6,902.20	6.30	7.57	11500	457	1320	484	19.7	1360	6500	258	136	126	2.06	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.77	< 0.1	< 0.05	0.078	< 0.1	0.016	1	4.2	5.2	< 0.2	< 1	< 1
0516 A	N	7/8/1997	6,902.10	6.70	7.61	11700	528	1580	507	19.7	1360	7120	271	135	124	2.26	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.8	< 0.1	< 0.05	< 0.001	< 0.1	0.015	0.8	< 1	0.8	< 0.2	< 1	< 1
0516 A	N	10/7/1997	6,901.40	6.30	7.45	11600	516	1480	480	18.4	1370	6530	258	132	106	2.5	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	1.83	< 0.1	< 0.05	< 0.001	< 0.1	0.015	1.2	< 1	1.2	< 0.2	< 1	< 1
0516 A	N	1/15/1998	6,902.50	6.40	7.59	11600	474	1450	493	20.2	1370	7100	293	129	137	2.9	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.03	< 0.1	< 0.05	< 0.001	< 0.1	0.023	1.1	< 1	1.1	< 0.2	< 1	< 1
0516 A	N	4/7/1998	6,901.40	6.20	7.39	11800	450	1310	469	18.2	1360	6220	230	141	116	3	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.61	< 0.1	< 0.05	< 0.001	< 0.1	0.019	1.2	< 1	1.2	< 0.2	< 1	< 1
0516 A	N	7/7/1998	6,902.10	6.50	7.36	11800	491	1450	492	18.5	1380	6500	257	145	117	3	< 0.1	< 0.001	< 0.01	< 0.005	0.02	< 0.05	1.59	< 0.1	< 0.05	< 0.001	< 0.1	0.0181	1.1	< 1	1.1	< 0.2	< 1	2.2
0516 A	N	10/6/1998	6,902.10	6.25	7.66	11800	478	1460	514	20.7	1390	7000	256	140	132	2.9	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.57	< 0.1	< 0.05	< 0.001	< 0.1	0.0211	1.1	1.6	2.7	< 0.2	< 1	< 1
0516 A	N	1/5/1999	6,902.20	6.40	7.57	11900	421	1400	446	19.2	1350	7100	259	152	103	2.2	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.66	< 0.1	< 0.05	< 0.001	< 0.1	0.0189	0.8	1.9	2.7	< 0.2	< 1	< 1
0516 A	N	4/6/1999	6,902.40	6.30	7.28	11900	456	1480	461	17.7	1350	6840	246	137	118	1.8	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.59	< 0.1	< 0.05	0.001	< 0.1	0.0197	0.7	3.4	4.1	< 0.2	< 1	< 1
0516 A	N	7/13/1999	6,901.04	6.50	7.78	11900	485	1540	518	24.9	1370	6920	254	137	106	2.6	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.67	< 0.1	< 0.05	< 0.001	< 0.1	0.0199	0.7	< 1	0.7	< 0.2	< 1	< 1
0516 A	N	10/5/1999	6,900.00	6.40	7.71	11900	553	1770	458	18.5	1387	8030	261	143	111	2.7	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.11	< 0.1	< 0.05	< 0.001	< 0.1	0.0218	0.7	< 1	0.7	< 0.2	< 1	1.4
0516 A	N	1/4/2000	6,899.60	6.30	7.64	11700	459	1520	408	18.1	1290	6590	228	137	113	2.7	< 0.1	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.37	< 0.1	< 0.05	0.001	< 0.1	0.0178	1.2	< 1	1.2	< 0.2	< 1	1.2
0619 Filtered	N	10/16/2012	6,876.66	6.94	7.08 H	6200	553	652	275 D	14	518	3720 D	119 D	0.9 D	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.11	<0.001	4.94	<0.1	0.27	<0.001	<0.1	0.0474	1.8	9.4	11.2	0.08 U	0.5 U	2.4
EPA 02	N	7/26/1989	6,843.90	6.80	6.80	3959	526	275	267	8.9	256	2463	32.1	0.89	0.01	< 1	0.37	< 0.001	< 0.05	< 0.01	0.06	< 0.05	2.9	< 0.1	0.07	< 0.001	< 0.1	0.0178	1.6	< 1	1.6	1.4	< 1	< 1
EPA 02	N	10/5/1989	6,844.30	6.40	7.00	4088	528	264	268	11.7	262	2589	29.7	0.89	0.08	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	2.8	< 0.01	< 0.05	< 0.001	< 0.1	0.004	0.6	1.9	2.5	< 0.2	3.4	1.1
EPA 02	N	1/17/1990	6,844.80	6.20	6.62	3622	446	216	265	8.2	293	2197	29.3	0.77	0.12	< 1	< 0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	2.6	< 0.1	< 0.05	< 0.001	< 0.1	0.003	0.6	< 1	0.6	0.4	< 1	1.1
EPA 02	N	4/18/1990	6,845.00	6.50	6.80	3704	440	220	250	7.8	293	2173	30.3	0.88	0.03	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	2.3	< 0.1	< 0.05	0.001	< 0.1	0.002	1.8	< 1	1.8	< 0.2	< 1	2.3
EPA 02	N	7/17/1990	6,844.90	6.60	6.70	3623	479	208	253	8.5	305	2104	28.8	0.51	0.05	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	2.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.4	1.9	2.3	< 0.2	< 1	< 1
EPA 02	N	10/16/1990	6,845.10	6.40	7.17	3965	445	230	259	7.5	259	2462	36.2	0.79	0.01	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.01	< 0.05	2.57	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.9	< 1	0.9	< 0.2	< 1	< 1
EPA 02	N	1/8/1991	6,845.30	6.50	6.85	3834	451	236	263	11	264	2388	35.6	0.76	0.01	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.62	< 0.1	< 0.05	< 0.001	< 0.1	0.0196	< 0.2	2	2	< 0.2	< 1	< 1
EPA 02	N	4/17/1991	6,845.80	6.30	7.37	3708	452	238	268	7.6	284	2300	24.6	0.67	< 0.01	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.12	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1	1.8	2.8	< 0.2	< 1	1
EPA 02	N	7/3/1991	6,846.00	6.40	6.83	4500	523	285	230	7.8	183	3175	38.1	1.07	< 0.01	< 1	0.3	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.02	0.03	< 0.05	< 0.001	< 0.1	< 0.0003	0.2	3.7	3.9	< 0.2	< 1	< 1
EPA 02	N	10/22/1991	6,846.50	6.40	6.59	3843	475	244	242	7.7	275	2435	34.4	0.96	0.04	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	2.09	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.2	3.7	3.9	< 0.2	< 1	< 1
EPA 02	N	1/23/1992	6,846.70	6.50	7.02	3478	455	235	229	7.4	226	2364	32.6	0.88	< 0.01	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.77	< 0.1	< 0.05	< 0.001	< 0.1	0.003	0.3	< 1	0.3	< 0.2	1.3	< 1
EPA 02	N	4/2/1992	6,847.10	6.40	7.86	3799	483	243	279	8.4	282	2486	29.5	0.92	< 0.01	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.46	< 0.1	< 0.05	< 0.001	< 0.1	0.009	0.2	4.4	4.6	< 0.2	3	< 1
EPA 02	N	7/16/1992	6,846.50	6.50	6.71	3885	412	224	290	9	237	2606	33.4	0.58	0.2	< 1	0.13	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.3	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.8	6.3	8.1	< 0.2	2.5	1.9
EPA 02	N	10/15/1992	6,846.70	6.30	7.02	4554	580	300	286	10.6	198	2890	36.1	0.92	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.23	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.2	6.3	7.5	< 0.2	2.1	1.3
EPA 02	N	1/14/1993	6,847.00	6.60	7.12	3380	436	196	213	8.3	276	2201	29	0.88	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.27	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.2	< 1	0.2	< 0.2	< 1	< 1
EPA 02	N	4/15/1993	6,847.50	6.60	7.68	3534	455	186	255	6.3	270	2292	30.4	0.67	0.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.15	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.5	< 1	0.5	< 0.2	1.6	< 1
EPA 02	N	7/21/1993	6,848.20	6.60	7.43	3321	458	207	256	8	315	2247	24.3	0.4	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.59	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.7	2.7	3.4	< 0.2	< 1	< 1
EPA 02	N	10/12/1993	6,845.50	6.70	6.50	3692	498	222	231	7.2	300	2274	29.6	0.57	< 0.1	< 1	0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	2.11	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1.4	2.1	3.5	< 0.2	2.8	4.5
EPA 02	N	1/11/1994	6,847.80	6.70	7.10	2674	353	160	194	5.6	300	1765	26.3	0.55	< 0.1	< 1	0.13	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.78	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.7	4.3	5	< 0.2	< 1	8.1
EPA 02	N	4/19/1994	6,847.90	6.60	8.05	2781	357	159	223	6.9	284	1771	24.3	0.78	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	0.02	< 0.05	2	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.8	2.1	2.9	< 0.2	< 1	4.1
EPA 02	N	7/26/1994	6,848.10	6.70	6.93	3353	469	216	223	6.8	273	2026	26.6	0.59	< 0.1	< 1	0.16	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.81	< 0.1	< 0.05	< 0.001	< 0.1	0.002	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 02	N	10/11/1994	6,848.00	6.70	7.70	3036	462	182	222	6.4	304	2057	25.2	0.71	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.52	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1	< 1	1	< 0.2	< 1	1.2
EPA 02	N	1/10/1995	6,848.10	6.60	7.16	3316	486	144	208	7.6	294	2057	27.5	0.98	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.82	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1.1	< 1	1.1	< 0.2	< 1	2.8
EPA 02	N	4/6/1995	6,848.50	6.70	6.91	3267	423	183	216	6.72	295	2070	26.5	1.06	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.59	< 0.1	< 0.05	< 0.001	< 0.1	0.002	0.6	2.4	3	< 0.2	< 1	3.8
EPA 02	N	7/11/1995	6,848.40	6.80	7.14	2674	390	177	203	6.2	325	1705	25.4	0.81	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.47	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1	< 1	1	< 0.2	< 1	3.4
EPA 02	N	10/10/1995	6,842.60	6.70	7.43	2782	393	156	216	6.4	321	1741	24.2	0.6	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.48	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.2	< 1	1.2	< 0.2	< 1	1.1
EPA 02	N	1/9/1996	6,848.50	6.80	7.73	2801	382	155	213	6.7	334	1791	24.7	0.46	< 0.1	< 1	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	1.48	< 0.1	< 0.05	< 0.001	< 0.1	0.0026	1	< 1	1	< 0.2	< 1	< 1
EPA 02	N	4/10/1996	6,842.70	6.90	7.70	3018	408	168	191	6	321	1831	22.7	0.52	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.52	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	0.7	< 1	0.7	0.7	< 1	< 1

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 02	N	7/17/1996	6,848.50	6.70	6.88	3042	390	164	208	16	312	1746	29	0.45	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.58	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	0.9	< 1	0.9	0.9	< 1	< 1
EPA 02	N	10/8/1996	6,848.70	6.70	7.17	3150	453	198	211	6.7	315	1866	24.5	0.56	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.53	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.8	< 1	0.8	< 0.2	< 1	1.7
EPA 02	N	1/28/1997	6,848.70	6.90	7.75	3000	400	185	190	6.23	318	1883	29.9	0.48	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.46	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.8	< 1	1.8	< 0.2	< 1	< 1
EPA 02	N	4/15/1997	6,848.70	6.70	7.77	2970	410	184	202	6.6	325	1775	26.4	0.46	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.49	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 02	N	7/15/1997	6,848.50	6.50	7.46	3090	411	186	192	6.6	321	1780	27.7	0.51	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.42	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.9	2.5	3.4	< 0.2	< 1	< 1
EPA 02	N	10/15/1997	6,848.50	6.60	7.64	2920	400	185	195	6.1	322	1740	31.6	0.5	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	1.49	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.5	< 1	0.5	< 0.2	< 1	< 1
EPA 02	N	1/20/1998	6,849.20	6.50	7.76	3060	407	182	208	6.9	318	2000	26.8	0.73	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.75	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1	< 1	1	< 0.2	< 1	< 1
EPA 02	N	4/14/1998	6,848.90	6.40	7.47	3130	438	199	194	6.3	316	1830	26.2	0.54	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.6	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	1.1	< 1	1.1	< 0.2	< 1	< 1
EPA 02	N	7/14/1998	6,848.70	7.00	7.66	3120	385	190	207	6.9	313	1700	22.3	0.49	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.5	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	0.9	< 1	0.9	< 0.2	7.5	< 1
EPA 02	N	10/6/1998	6,849.50	6.60	7.82	3390	454	227	221	7.9	292	2150	28.6	0.75	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.94	< 0.1	< 0.05	< 0.001	< 0.1	0.0007	1	2.5	3.5	< 0.2	< 1	< 1
EPA 02	N	1/12/1999	6,849.30	6.80	7.65	3060	364	180	181	6.7	311	1740	27.8	0.55	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.44	< 0.1	< 0.05	< 0.001	< 0.1	0.0028	0.9	2.5	3.4	< 0.2	< 1	< 1
EPA 02	N	4/13/1999	6,849.50	6.70	7.69	3110	420	182	198	6.8	304	1800	31.3	0.64	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.64	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1.1	< 1	1.1	< 0.2	1.8	1.8
EPA 02	N	7/20/1999	6,849.19	6.70	7.67	3080	385	186	187	8.8	307	1650	29	0.59	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.35	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1.2	2.1	3.3	< 0.2	2.1	2.1
EPA 02	N	10/12/1999	6,849.30	6.64	7.65	3640	478	244	186	7.6	268	1970	45.7	0.7	< 1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.21	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.6	2.2	2.8	< 0.2	< 1	1.8
EPA 02	N	1/11/2000	6,849.50	6.70	7.63	3090	384	187	179	7.4	310	1700	28.9	0.57	< 0.1	< 1	0.12	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.58	< 0.1	< 0.05	0.001	< 0.1	0.0015	0.8	< 1	0.8	< 0.2	< 1	< 1
EPA 02	N	5/2/2000	6,850.10	6.60	7.72	2800	349	162	183	5.9	296	1490	20.2	0.48	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0016	1.7	< 1	1.7	< 0.2	< 1	2.2
EPA 02	N	7/10/2000	6,849.90	6.67	7.42	2740	369	166	192	5.89	334	1540	20.4	0.47	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.27	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.5	3.9	5.4	< 0.2	< 1	1.4
EPA 02	N	10/2/2000	6,849.95	6.70	7.49	2670	359	172	195	7.8	330	1740	21.2	0.42	< 0.1	< 1	< 0.1	0.004	< 0.01	< 0.005	< 0.01	< 0.05	1.07	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.8	< 1	1.8	< 0.2	< 1	2.6
EPA 02	Dup	10/9/2000	no data	6.69	7.62	2700	327	153	187	6.54	331	1380	18.1	0.43	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.07	< 0.1	< 0.05	< 0.001	< 0.1	0.012	1.4	3.3	4.7	< 0.2	< 1	1.5
EPA 02	N	1/15/2001	6,850.00	6.80	7.34	2680	360	157	185	6.5	350	1690	25.8	0.5	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.21	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	1.2	2.8	4	< 0.2	< 1	1.2
EPA 02	Dup	1/15/2001	no data	6.90	7.47	2560	358	156	185	6.5	330	1680	26.3	0.5	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.15	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.4	4.6	6	< 0.2	< 1	1.1
EPA 02	N	4/2/2001	6,850.10	6.87	7.39	2730	408	182	173	6	425	1600	23.7	0.53	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.14	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	1.4	< 1	1.4	< 0.2	< 1	2.1
EPA 02	Dup	4/2/2001	no data	6.88	7.26	2780	407	181	170	5.9	333	1610	24	0.46	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	1.4	< 1	1.4	< 0.2	< 1	1.4
EPA 02	N	7/16/2001	6,849.60	7.03	7.57	2770	341	159	182	6.9	430	1630	28.3	0.53	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.2	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.4	4.3	5.7	< 0.2	< 1	1.6
EPA 02	Dup	7/16/2001	no data	7.08	7.49	2720	343	159	185	6.8	331	1610	28.2	0.53	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.18	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	0.8	6.4	7.2	< 0.2	< 1	< 1
EPA 02	N	10/9/2001	6,849.75	6.67	7.70	2760	330	150	182	6.2	371	1420	25.1	0.36	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	1.08	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	1.3	2.6	3.9	< 0.2	< 1	< 1
EPA 02	Dup	10/9/2001	no data	6.72	7.10	2730	330	150	177	6.2	338	1440	27.1	0.45	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.08	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.2	< 1	1.2	< 0.2	< 1	< 1
EPA 02	N	1/14/2002	6,849.80	6.96	7.20	2730	406	177	168	8	355	1550	24.8	0.43	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.34	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.3	3.3	4.6	< 0.2	< 1	1.3
EPA 02	Dup	1/14/2002	no data	6.85	7.10	2770	409	179	174	8.13	334	1600	24.7	0.47	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.35	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	1.8	12	13.8	< 0.2	< 1	1.9
EPA 02	N	4/9/2002	6,849.36	6.83	7.29	2760	356	159	186	6.2	379	1570	25.4	0.45	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	1.1	1.7	2.8	< 0.2	< 1	1.8
EPA 02	Dup	4/9/2002	no data	6.72	7.21	2780	351	158	184	6.3	336	1570	24.8	0.5	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.5	< 1	1.5	< 0.2	< 1	1.4
EPA 02	N	7/16/2002	6,849.45	6.14	7.54	2760	352	161	188	6	448	1510	24.6	0.6	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.7	< 1	1.7	< 0.2	< 1	1.7
EPA 02	Dup	7/16/2002	no data	6.56	7.37	2770	352	160	190	7.6	332	1540	25.9	1.3	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.26	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.9	< 1	0.9	< 0.2	< 1	1.8
EPA 02	N	10/15/2002	6,849.16	6.14	7.72	2630	398	178	189	5.9	432	1700	21	0.5	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	1.12	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1.7	3	4.7	< 0.2	< 1	< 1
EPA 02	Dup	10/15/2002	no data	6.43	7.48	2650	400	180	187	6.1	337	1750	15.2	0.62	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1.5	< 1	1.5	< 0.2	< 1	< 1
EPA 02	N	1/14/2003	6,849.13	6.65	7.62	2700	345	154	172	6.4	409	1410	19.6	0.59	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	1.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	3	< 1	3	< 0.2	< 1	2.2
EPA 02	Dup	1/14/2003	no data	no data	7.38	2710	380	175	162	6.6	341	1590	23.5	0.69	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.9	< 1	1.9	< 0.2	< 1	3
EPA 02	N	4/15/2003	6,849.54	6.76	7.51	2740	328	141	194	9	448	1550	23.7	0.6	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.8	10.1	11.9	< 0.2	< 1	2.1
EPA 02	Dup	4/15/2003	no data	no data	7.37	2730	346	163	192	8.8	333	1520	23.3	0.6	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.25	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.3	10.4	11.7	< 0.2	< 1	2.3
EPA 02	N	7/14/2003	6,849.09	6.50	7.62	2750	352	156	183	7.1	436	1460	25.2	0.5	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.6	8.7	10.3	< 0.2	< 1	< 1.0
EPA 02	Dup	7/14/2003	no data	no data	7.48	2790	365	164	185	7.3	338	1550	19.2	0.57	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.32	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.3	9.9	11.2	< 0.2	< 1	< 1.0
EPA 02	N	10/14/2003	6,848.80	6.67	7.44	2710	390	172	194	6	438	1620	19.4	0.48	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	0.8	8.7	9.5	< 0.2	< 1	1.4
EPA 02	Dup	10/14/2003	no data	no data	7.52	2700	394	174	194	6.1	329	1600	21.7	0.55	< 0.1	< 1	0.2	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.32	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	1	9.7	10.7	< 0.2	< 1	1.5
EPA 02	N	1/13/2004	6,848.87	6.69	7.74	2700	380	176	196	7.1	323	1640	20.9	0.48	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.32	< 0.1	< 0.05	< 0.001	< 0.1	0.0012 D	1.5	< 1.0	1.5	< 0.2	< 1.0	1.4
EPA 02	Dup	1/13/2004	no data	no data	7.63	2710	391	180	196	7.6	336	1680	20.5	0.58	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0015 D	1.2	2.1	3.3	< 0.2	< 1.0	1.4
EPA 02	N	4/13/2004	6,848.76	6.55	6.97	2680	353	164	182	6.9	405	1580	23.1	0.92	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	1.1	< 1	1.1	< 0.2	< 1	2
EPA 02	Dup	4/13/2004	no data	no data	6.82	2710	356	166	191	7.1	342	1620	24.8	0.78	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.31	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.3	3.7	5	< 0.2	< 1	2.4
EPA 02	N	7/20/2004	6,848.67	6.80	6.89	2740	374 D	164 D	202	5.9	358	1530 D	22	0.49	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.5	3.1	4.6	< 0.2	< 1.0	2.3
EPA 02	Dup	7/20/2004	no data	no data	6.62	2700	373 D	164 D	201	5.8	331	1550 D	21	0.55	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.27	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1.3	5.1	6.4	< 0.2	< 1.0	2.2
EPA 02	N	10/13/2004	6,848.79	6.93	7.10	2810	367 D	176 D	180	6.5	378	1600 D	23	0.55	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.25	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1	2.3	3.3	< 0.2	< 1.0	2.6
EPA 02	Dup	10/13/2004	no data	no data	7.07	2870	386 D	187 D	196	6.6	328	1700 D	24	0.58	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.36	< 0.1	< 0.5 D	< 0.001	< 0.1	0.001	1.5	1.1	2.6	< 0.2	< 1.0	2.6
EPA 02	N	1/11/2005	6,848.91	7.42	7.11	2850	390 D	180 D	201 D	6.6	356	1630	23	0.51	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.45	< 0.1	< 0.05	< 0.001	< 0.1	0.0018	0.8	2.2	3	< 0.2	< 1.0	2.7
EPA 02	Dup	1/11/2005	no data	no data	7.05	2910	397 D	187 D	202	6.8	325	1670	23	0.57	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.53	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.5	4.1	4.6	< 0.2	< 1.0	3.4
EPA 02	N	4/12/2005	6,848.66	6.78	7.08	2750	403	185	206	6.8	348	1740	22	0.49	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.52	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	0.7	1.4	2.1	< 0.2	< 1.0	1.5
EPA 02	Dup	4/12/2005	no data	no data	7.11	2750	406	185	203	6.9	322	1760	23	0.5	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.53	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	0.7	3.2	3.9	< 0.2	< 1.0	2.5
EPA 02	N	7/19/2005	6,847.89	6.49	7.28	2590	350 D	160 D	195	5.9	389	1420	20	0.4	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.25	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.1	1.8	2.9	< 0.2	< 1.0	< 1.0
EPA 02	Dup	7/19/2005	no data	no data	7.15	2630	346 D	159 D	196	5.8	335	1450 D	17	0.46	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.24	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.9	2	2.9	< 0.2	< 1.0	1.2
EPA 02	N	10/11/2005	6,848.28	6.79	7.26	2640	352 D	163 D	199	6.4	284	1560 D	23	0.47	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.6	3.7	5.3	< 0.2	< 1.0	1.1
EPA 02	Dup	10/11/2005	no data	no data	7.19	2690	351 D	163 D	197	6.5	357	1570 D	24	0.52	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.31	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.6	2.9	4.5	< 0.2	< 1.0	2.2
EPA 02	N	1/17/2006	6,848.01	6.93	7.56	2540	345 D	161 D	185	6.2	336	1480 D	21	0.49	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.4	2	3.4	< 0.2	< 1.0	1.9

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 02	Dup	1/17/2006	no data	no data	7.72	2560	339 D	158 D	182	6.2	531	1390	20	0.61	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	1.2	1.8	3	< 0.2	< 1.0	3.1
EPA 02	N	4/11/2006	6,848.22	6.86	7.32	2560	364 D	168 D	191	5.9	383	1470	21	0.47	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.1	< 0.1	< 0.05	< 0.001	< 0.1	0.0017	1	4.3	5.3	< 0.2	< 1.0	1.4
EPA 02	Dup	4/11/2006	no data	no data	7.44	2600	369 D	172 D	193	6	354	1520	21	0.61	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.19	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.1	6.2	7.3	< 0.2	< 1.0	< 1.0
EPA 02	N	7/25/2006	6,848.04	6.70	7.24	2540	346 D	154 D	204	6.2	321	1550	21	0.68	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.3	6.6	7.9	< 0.2	< 1.0	1.2
EPA 02	Dup	7/25/2006	no data	no data	7.08	2480	356 D	159 D	206	6.5	319	1580	21	0.51	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.46	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.8	4.8	5.6	< 0.2	< 1.0	1.2
EPA 02	N	10/10/2006	6,847.90	6.69	7.26	2490	352 D	158 D	195	6.3	335	1490	20	0.49	< 0.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.4	1.2	2.6	< 0.2	< 1	1.7
EPA 02	Dup	10/10/2006	no data	no data	7.03	2440	355 D	160 D	195	6.2	337	1500	20	0.54	< 0.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.7	1.5	3.2	< 0.2	< 1	2.5
EPA 02	N	1/16/2007	6,847.64	6.74	7.32	2580	352 D	161 D	186	6.5	310	1520	22	0.29	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.18	<0.1	<0.05	<0.001	<0.1	0.0012	1.4	2.9	4.3	<0.2	<1	1.8
EPA 02	Dup	1/16/2007	no data	6.74	7.24	2570	359 D	164 D	184	6.3	307	1480	21	0.39	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.14	<0.1	<0.05	<0.001	<0.1	0.0012	1.9	<1	1.9	<0.2	<1	2
EPA 02	N	4/16/2007	6,847.81	6.96	7.25	2590	343 D	157 D	182	6.4	342	1420	22	0.41	<0.1	<0.5	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	1.28	<0.1	<0.05	<0.001	<0.1	0.0013 D	1.2	2.2	3.4	<0.2	<1	1.8
EPA 02	Dup	4/16/2007	no data	6.82	7.04	2600	349 D	160 D	177	6.2	351	1380	22	0.45	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.29	<0.1	<0.05	<0.001	<0.1	0.0013 D	1.1	2.4	3.5	<0.2	<1	1.1
EPA 02	N	7/16/2007	6,847.44	6.61	7.10	2540	352	159	186	5.9	340	1440	20	0.35	<0.1	<0.5	<0.1	0.001	<0.01	<0.005	<0.01	<0.05	1.14	<0.1	<0.05	<0.001	<0.1	0.0016	<0.2	1.4	1.4	<0.2	<1	<1
EPA 02	Dup	7/16/2007	no data	6.67	6.83	2510	355 D	164 D	192	6	334	1510	20	0.42	<0.1	<0.5	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	1.28	<0.1	<0.05	<0.001	<0.1	0.0015	0.7	<1	0.7	<0.2	<1	1.6
EPA 02	N	10/8/2007	6,847.26	6.85	7.39	2600	344 D	159 D	185	6.1	287	1490 D	20	0.33	<0.1	0.91	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.42	<0.1	<0.05	<0.001	<0.1	0.0012	1.1	<1	1.1	<0.2	<1	1.7
EPA 02	Dup	10/8/2007	no data	6.78	7.15	2670	350 D	162 D	188	6.2	348	1470	20	0.32	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.39	<0.1	<0.05	<0.001	<0.1	0.0012	1.4	<1	1.4	<0.2	<1	2.5
EPA 02	N	1/21/2008	6,847.49	6.78	6.99	2580	333 D	145	192	6.9	291	1480 D	31 D	0.37	< 0.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.21	< 0.1	< 0.05	< 0.001	< 0.1	0.0017	1.6	< 1	1.6	< 0.2	< 1	1.6
EPA 02	Dup	1/21/2008	no data	6.76	6.88	2520	327 D	146	187	6.9	346	1490 D	26 D	0.35	< 0.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.23	< 0.1	< 0.05	0.001	< 0.1	0.0018	0.5	< 1	0.5	< 0.2	< 1	2
EPA 02	N	4/14/2008	6,847.09	6.53	7.16	2520	369	153	198 D	6.1	335	1550 D	18	0.36	< 0.1	< 0.5	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	1.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.1	2.7	3.8	0.7	-3.1 U	2.4
EPA 02	Dup	4/14/2008	no data	6.48	6.94	2550	358	157	199 D	6.1	329	1590 D	18	0.34	< 0.1	< 0.5	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.26	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	1.3	3	4.3	0.7	-0.1 U	2.6
EPA 02	N	7/14/2008	6,846.99	6.89	6.92	2550	352	157	192 D	6	305	1750 D	18	0.29	< 0.1	< 0.5	< 0.1	< 0.003	< 0.01	< 0.005	< 0.01	< 0.05	1.37	< 0.1	< 0.05	< 0.001	< 0.1	0.0016 D	1.5	3.1	4.6	-0.1 U	1.9 U	1.2
EPA 02	Dup	7/14/2008	no data	6.84	6.89	2610	356	160	196 D	6	333	1730 D	19	0.33	< 0.1	< 0.5	< 0.1	< 0.003	< 0.01	< 0.005	< 0.01	< 0.05	1.49	< 0.1	< 0.05	< 0.001	< 0.1	0.0017 D	1.4	3.2	4.6	0 U	3.4 U	1.6
EPA 02	N	10/13/2008	6,846.89	6.83	6.84	2780 H	364	165	195 D	6	279	1790 D	18	0.3	< 0.1	< 0.5	< 0.1	0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.55	< 0.1	< 0.05	< 0.001	< 0.1	0.0023	0.86	1.7	2.56	0.2	-0.7 U	2.5
EPA 02	Dup	10/13/2008	no data	6.69	6.87	2710 H	354	161	194 D	6	320	1720 D	18	0.3	< 0.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	1.44	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.96	2.2	3.16	0.5	0.5 U	2.7
EPA 02	N	1/13/2009	6,846.79	6.75	6.98	2750	378	173	212	6	286	1750 D	17	0.28	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.4	<0.1	<0.05	0.002	<0.1	0.0017	1.1	2.3	3.4	0.3	-3 U	3.7
EPA 02	Dup	1/13/2009	no data	no data	6.96	2800	377	174	211	6	337	1560 D	14	0.28	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.51	<0.1	<0.05	<0.001	<0.1	0.0015	1.2	3.3	4.5	-0.1 U	-2 U	3.4
EPA 02	N	4/13/2009	6,846.84	6.65	6.91	2610	336	153	198	6	309	1700 D	17	0.29	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.21	<0.1	<0.05	<0.001	<0.1	0.0019	1.1	2.2	3.3	-0.1 U	0.2 U	1
EPA 02	Dup	4/13/2009	no data	no data	6.84	2640	321	146	190	6	347	1610 D	16	0.31	<0.1	<0.50	<0.1	<0.001	<0.04	<0.005	<0.01	<0.05	1.26	<0.1	<0.05	<0.001	<0.1	0.0018	1.4	3	4.4	-0.03 U	1.2 U	1
EPA 02	N	7/13/2009	6,846.64	6.6	7.22 H	2690 H	343	149	197	6	326	1720 D	22	0.39	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.34	<0.1	<0.05	<0.001	<0.1	0.0013	1.3	3	4.3	-0.01 U	1.1 U	2.8
EPA 02	Dup	7/13/2009	no data	no data	7.09 H	2770 H	353	156	199	6	332	1720 D	17	0.46	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.34	<0.1	<0.05	<0.001	<0.1	0.0012	1.4	2.8	4.2	0.02 U	-0.4 U	3
EPA 02	N	10/12/2009	6,846.74	6.77	7.31	2830 H	360	158	192	6	318	1670 D	21	0.42	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.44	<0.1	<0.05	<0.001	<0.1	0.0019	1.1	3.1	4.2	-0.02 U	1.1 U	2
EPA 02	Dup	10/12/2009	no data	no data	7.2	2790	351	164	198	6	331	1620 D	24	0.45	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.49	<0.1	<0.05	<0.001	<0.1	0.0016	1.1	3	4.1	0.06 U	1.1 U	2
EPA 02	N	1/11/2010	6,846.34	6.86	6.96	2600	346	154	204	7	346	1670 D	18	0.42	0.12	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.3	<0.1	<0.05	<0.001	<0.1	0.0012	0.87	3.1	3.97	0.02 U	1.9 U	1.7
EPA 02	Dup	1/11/2010	no data	6.84	6.99	2780	384	173	204	7	345	1860 D	18	0.47	<0.10	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.47	<0.1	<0.05	<0.001	<0.1	0.0012	1.2	3.4	4.6	-0.01 U	0.8 U	1.6
EPA 02	N	4/12/2010	6,846.59	6.76	6.95	2870	369	167	205	7	350	1840 D	29	0.42	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.89	<0.1	<0.05	<0.001	<0.1	0.0012	1.4	2.9	4.3	0.04 U	0.4 U	1.6
EPA 02	Dup	4/12/2010	no data	6.75	7.1	2850	368	167	209	7	350	1850 D	16	0.5	<0.1	<0.50	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	1.5	<0.1	<0.05	<0.001	<0.1	0.0014	1.3	4.7	6	0.03 U	-1 U	1.7
EPA 02	N	7/19/2010	6,846.29	6.61	6.91	2830	353	162	204	6	332	1820 D	21 D	0.5	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.34	<0.1	<0.05	<0.001	<0.1	0.0011	1.5	2.3	3.8	0.07 U	-0.5 U	3.4
EPA 02	Dup	7/19/2010	no data	6.6	7.26	3000	380	181	201	6	332	1880 D	22 D	0.57	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.58	<0.1	<0.05	<0.001	<0.1	<0.0003	1.2	3	4.2	0.1 U	0.8 U	2.5
EPA 02	N	10/11/2010	6,846.49	6.75	7.81	2800	358	155	203	6	320	1790 DH	18 D	0.46	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.9	<0.1	<0.05	<0.001	<0.1	0.0013	1.4	2.3	3.7	-0.02 U	0.7 U	1.3
EPA 02	Dup	10/11/2010	no data	6.74	7.69	2750	364	162	215	7	348	1780 D	16 D	0.47	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.3	<0.1	<0.05	<0.001	<0.1	0.0015	1.6	3.2	4.8	0.03 U	-0.2 U	1.3
EPA 02	N	1/10/2011	6,846.14	6.86	7.71	2740	351	156	199	7	326	1740 D	21 D	0.44	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.56	<0.1	<0.05	<0.001	<0.1	0.0017	1.2	2.8	4	0.004 U	1.0 U	3.7
EPA 02	N	4/11/2011	6,846.17	6.87	7.21	2830	376	166	214	7	322	1770 D	21 D	0.47	<0.1	<0.50	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	1.67	<0.1	<0.05	0.002	<0.1	0.0016	1.2	2.3	3.5	0.02 U	0.7 U	1.3
EPA 02	N	7/18/2011	6,845.99	6.88	7.74	2830	370	162	212	7	312	1650 D	20 D	0.5 D	<0.1	<0.50	0.2	<0.001	<0.01	<0.005	<0.01	<0.05	1.4	<0.1	<0.05	<0.001	<0.1	0.0018	1.1	3	4.1	0.04 U	-0.5 U	1.5
EPA 02	Dup	7/18/2011	no data	6.79	7.78	2800	366	163	211	6	321	1680 D	20 D	0.5 D	<0.1	<0.50	0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.54	<0.1	<0.05	<0.001	<0.1	0.0012	0.84	3.7	4.54	0.009 U	-0.4 U	1.7
EPA 02	N	10/10/2011	6,845.29	6.77	7.75	2820	386	171	210	7	295	1780 D	21 D	0.4 D	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.53	<0.1	<0.05	<0.001	<0.1	0.0023	1.5	2.6	4.1	0.06 U	0.7 U	4.7
EPA 02	Dup	10/10/2011	no data	6.8	7.51	2840	384	169	206	7	285	1790 D	21 D	0.4 D	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	0.9	<0.1	<0.05	<0.001	<0.1	0.0014	1.2	2.4	3.6	0.0007 U	0.9 U	2.4
EPA 02	N	1/9/2012	6,845.89	6.89	6.77 H	2850	345	143	184	6	286	1720 D	21 D	0.35	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.18	<0.1	<0.05	<0.001	<0.1	0.002	1.4	1.3 U	4	0.04 U	0.4 U	1.1
EPA 02	Dup	1/9/2012	no data	6.91	6.32 H	2710	351	147	187	6	310	1610 D	19 D	0.36	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	1.2	<0.1	<0.05	<0.001	<0.1	0.0023	1.1	0.82 U	2.74	0.005 U	0.4 U	0.9
EPA 02	N	4/9/2012	6,845.79	6.8	6.88 H	2960	349	162	201	6	305	1790 D	22 D	0.43	<0.1	<0.50	<0.1	<0.01	<0.01	<0.005	<0.01	<0.05	1.9	<0.1	<0.05	<0.001	<0.1	0.0025	1.1	2.7	6.5	0.008 U	0.3 U	1.3
EPA 02	Dup	4/9/2012	no data	6.79	6.76 H	2820	340	156	195	6	328	1720 D	20 D	0.46	<0.1	<0.50	<0.1	<0.01	<0.01	<0.005	<0.01	<0.05	1.45	<0.1	<0.05	<0.001	<0.1	0.002	1.1	3.9	8.9	0.01 U	0.4 U	1.5
EPA 02	N	7/16/2012	6,845.69	6.68	7.10 H	2920	337	155	207	6	299	1790 D	21 D	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.39	<0.1	<0.05	<0.001	<0.1	0.0017	1.3	2.2	5.7	0.04 U	0.8 U	1.6
EPA 02	Dup	7/16/2012	no data	6.73	6.76 H	2890	388	178	175	5	323	1730 D	21 D	0.46	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.43	<0.1	<0.05	<0.001	<0.1	0.0014	1.6	2.4	6.4	0.02 U	0.5 U	1.4
EPA 02	N	10/15/2012	6,845.59	6.93	7.04 H	2990	382	161	215	7	306	1800 D	22 D	0.44	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.24	<0.1	<0.05	<0.001	<0.1	0.002	0.91	2.4	3.31	0.05 U	0.2 U	1.8
EPA 02	Dup	10/15/2012	no data	6.93	6.75 H	2820	391	169	216	7	338	1700 D	21 D	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.39	<0.1	<0.05	<0.001	<0.1	0.0022	1.1	3	4.1	0.4	0.6 U	2.8
EPA 02	N	1/15/2013	6,845.62	6.81	6.78 H	2910	401	176	216	7	337	1710 D	19 D	0.48	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	1.62	<0.1	<0.05	<0.001	<0.1	0.0019	1.6	3.8	5.4	0.008 U	0.4 U	1.1
EPA 02	Dup	1/15/2013	no data	no data	6.75 H	2880	411	183	221	7	331	1750 D	20 D	0.47	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	1.54	<0.1	<0.05	<0.001	<0.1	0.0019	1.7	3.5	5.2	0.03 U	0.6 U	1
EPA 02	N	4/8/2013	6,846.09	6.87	6.87 H	2930	367	166	193	7	316	1850 D	20 D	0.43	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.51	<0.1	<0.05	<0.001	<0.1	0.0017	0.99	1.8	2.79	0.02 U	-0.4 U	2.9
EPA 02	Dup	4/8/2013	no data	no data	6.78 H	2910	386	178	208	7	343	1810 D	20 D	0.48	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.55	<0.1	<0.05	<0.001	<0.1	0.0015	1.5	2.8	4.3	0.06	0.5 U	3.2
EPA 02	N	7/15/2013	6,845.38	6.75	7.11 H	3000	386	176	204	6	302	1780 D	25 D	0.36	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.59	<0.1	<0.05	<0.001	<0.1	0.0015	1.4	4	5.4	0.09 U	1.0 U	1.5
EPA 02	Dup	7/15/2013	no data	no data	6.84 H	2990	388	179	205	7	317	1830 D	26 D	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.003	1.55	<0.1	<0.05	<0.001	<0.1	0.0015	1.4	3.8	5.2	0.08 U	1.1 U	1.5
EPA 02	N	10/7/2013	6,845.26	6.91	6.91 H	2970	377	171	208	7	312	1860 D	23 D	0.38	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	1.51	<0.1	<0.05	<0.001	<0.1	0.0016	1.6	2.5	4.1	0.03 U	0.4 U	1.6

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 02	Dup	10/7/2013	no data	6.86	6.79 H	2950	381	176	210	7	343	1800 D	22 D	0.41	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.55	<0.1	<0.05	<0.001	<0.1	0.0022	1.9	3.6	5.5	0.07 U	-0.02 U	1.4
EPA 02	N	1/13/2014	6,845.15	7.03	6.92	2980	386	172	206	7	319	1860	22	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.53	<0.1	<0.05	<0.001	<0.1	0.0021	1	1.9	2.9	0.07 U	0.3 U	1.2
EPA 02	Dup	1/13/2014	no data	no data	6.78	2950	396	182	211	7	319	1780	23	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.6	<0.1	<0.05	<0.001	<0.1	0.002	1.2	2.2	3.4	0.1 U	0.3 U	1
EPA 02	N	4/2/2014	6,845.53	7.08	6.77 H	2990	392	175	219 D	7	323	1790 D	23	0.18	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.62	<0.1	<0.05	<0.001	<0.1	0.0016	1.3	3.2	4.5	0.04 U	0.2 U	2.7
EPA 02	Dup	4/2/2014	no data	7.02	6.73 H	3010	396	179	216 D	7	329	1820 D	23	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.54	<0.1	<0.05	<0.001	<0.1	0.0016	1.1	3.7	4.8	0.04 U	0.4 U	2.4
EPA 02	N	7/9/2014	6,844.95	6.86	6.88 H	2990	370	176	214 D	7	304	1860 D	22	<0.05	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.37	<0.1	<0.05	<0.001	<0.1	0.0014	1.1	2.5	3.6	0.02 U	0.1 U	1.8
EPA 02	Dup	7/9/2014	no data	6.83	6.71 H	2930	389	183	224 D	7	319	1820 D	21	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.53	<0.1	<0.05	<0.001	<0.1	0.0011	0.98	2.4	3.38	0.02 U	0.4 U	1.8
EPA 02	N	10/8/2014	6,845.01	6.98	7.02 H	3070	394	180	221	7	298	1820 D	21	<0.05	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.55	<0.1	<0.05	<0.001	<0.1	0.0022	1.4	3.5	4.9	0.008 U	0.1 U	1.7
EPA 02	Dup	10/8/2014	no data	6.92	6.75 H	3040	397	183	210	7	314	1830 D	21	0.46	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	1.68	<0.1	<0.05	<0.001	<0.1	0.0015	1.8	2.8	4.6	-0.02 U	0.07 U	1.9
EPA 02	N	1/7/2015	6,844.80	7.05	6.87 H	3080	399	188	206	7	293	1950 D	27	<0.05	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.54	<0.1	<0.05	<0.001	<0.1	0.0014	1.4	3.2	4.6	0.3	0.4 U	1.7
EPA 02	Dup	1/7/2015	no data	7.01	6.74 H	3060	397	184	202	7	318	1920 D	27	0.42	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.65	<0.1	<0.05	<0.001	<0.1	0.002	1.4	3.8	5.2	0.07 U	-0.6 U	1.5
EPA 02	N	4/8/2015	6,845.08	6.84	7.06 H	3100	395	180	207	7	292	1860 D	23	0.34	<0.1	<0.5	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.5	<0.1	<0.05	<0.001	<0.1	0.0016	1.4	3.6	5	-0.02 U	0.3 U	1.9
EPA 02	Dup	4/8/2015	no data	6.87	6.74 H	3100	403	185	212	7	317	1850 D	23	0.44	<0.1	<0.5	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.63	<0.1	<0.05	<0.001	<0.1	0.0017	1.5	4.8	6.3	0.005 U	0.07 U	2.1
EPA 02	N	7/8/2015	6,844.75	6.85	7.03 H	3040	374	175	194	7	320	1860 D	23	<0.05	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.57	<0.1	<0.05	<0.001	<0.1	0.0014	1.1	2.3	3.4	0.2 U	0.3 U	1.6
EPA 02	Dup	7/8/2015	no data	6.71	6.76 H	3110	387	175	192	8	311	1930 D	24	0.47	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.001	1.68	<0.1	<0.05	<0.001	<0.1	0.0011	1.1	2.8	3.9	0.02 U	-0.07 U	2.4
EPA 02	N	10/7/2015	6,844.63	6.98	7.01 H	3090	397	188	204	7	276	2020 D	25	0.34	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.66	<0.1	<0.05	<0.001	<0.1	0.0016	1.6	3	4.6	0.3	0.04 U	4.4
EPA 02	Dup	10/7/2015	no data	6.89	6.69 H	3130	407	193	208	7	289	1970 D	24	0.44	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.73	<0.1	<0.05	<0.001	<0.1	0.0015	1.7	3.3	5	0.7	0.3 U	4.2
EPA 02	N	1/6/2016	6,845.02	7.02	6.89 H	3110	417	203	214	7	324	2010 D	24	0.39	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.68	<0.1	<0.05	<0.001	<0.1	0.0013	1.1	3	4.1	0.08 U	-0.5 U	4.4
EPA 02	Dup	1/6/2016	no data	7.00	6.77 H	3010	393	188	204	7	317	1940 D	24	0.44	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.59	<0.1	<0.05	<0.001	<0.1	0.0015	1.1	1.8	2.9	0.08 U	-0.5 U	3.5
EPA 02	N	4/6/2016	6,844.30	6.89	6.92 H	3030	409	191	204	7	298	1880 D	22	0.18	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.61	<0.1	<0.05	<0.001	<0.1	0.0012	1.2	3.7	4.9	0.02 U	0.4 U	2.4
EPA 02	Dup	4/6/2016	no data	6.83	6.82 H	2990	396	183	209	7	305	1860 D	22	0.38	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.64	<0.1	<0.05	<0.001	<0.1	0.0014	1.4	4	5.4	0.03 U	0.4 U	3.1
EPA 02	N	7/13/2016	6,844.31	6.86	7.00 H	3070	386	176	202	7	292	2010 D	25	0.13	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.001	1.33	<0.1	<0.05	<0.001	<0.1	0.0018	1.5	3.8	5.3	0.05 U	0.4 U	1.6 U
EPA 02	Dup	7/13/2016	no data	6.85	6.72 H	2970	387	176	201	7	313	1890 D	24	0.26	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	1.5	<0.1	<0.05	<0.001	<0.1	0.0017	1.8	2.4	4.2	0.04 U	0.3 U	2.8
EPA 02	N	10/5/2016	6,844.46	6.93	7.13 H	3050	407	193	207	7	285	1910 D	21 H	0.13	0.2	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.68	<0.1	<0.05	<0.001	<0.1	0.0018	1.5	6	7.5	0.04 U	0.3 U	5
EPA 02	DUP	10/5/2016	no data	6.94	6.78 H	3020	399	186	201	7	303	1830 D	22	0.31	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.73	<0.1	<0.05	<0.001	<0.1	0.0017	1.8	4.4	6.2	0.01 U	0.2 U	4.3
EPA 02	N	1/11/2017	6,844.52	6.95	6.96 H	3110 D	432	190	206	7	293	2000 D	25	0.23	0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.74	<0.1	<0.05	<0.001	<0.1	0.0017	1	3.1	4.1	0.3	0.4 U	2.5
EPA 02	Dup	1/11/2017	no data	6.84	6.76 H	3160 D	435	193	207	8	302	2020 D	25	0.42	0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.89	<0.1	<0.05	<0.001	<0.1	0.0015	1.1	3	4.1	0.1 U	0.5 U	2.3
EPA 02	N	4/5/2017	6,844.10	6.76	6.91 H	2990 D	396	187	206	7	310	2000 D	26	0.25	0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.002	1.54	<0.1	<0.05	<0.001	<0.1	0.0016	1.4	5.6	7	0.04 U	1.6	3.2
EPA 02	Dup	4/5/2017	no data	6.72	6.78 H	3030 D	390	185	214	7	309	1910 D	24	0.38	0.2	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.005	1.54	<0.1	<0.05	<0.001	<0.1	0.0017	1.6	4.7	6.3	0.003 U	0.7 U	4.2
EPA 02	N	7/12/2017	6,844.00	6.80	7.00 H	3060 D	380	177	191	7	287	1850 D	24	0.08	0.07	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.004	1.76	<0.1	<0.05	<0.001	<0.1	0.0018	1.1	3.1	4.2	-0.008 U	1.6	1.4
EPA 02	Dup	7/12/2017	no data	6.79	6.76 H	3110 D	374	177	185	6	296	1860 D	23	0.41	<0.01	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	0.003	1.89	<0.1	<0.05	<0.001	<0.1	0.0011	1.5	2.7	4.2	0.009 U	0.7 U	1.2
EPA 02	N	10/4/2017	6,843.92	6.95	6.93 H	3200 D	406	194	207	7	290	1890 D	24	0.27	0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.83	<0.1	<0.05	<0.001	<0.1	0.0013	1.5	5.6	7.1	0.1 U	1.1 U	1.8
EPA 02	Dup	10/4/2017	no data	6.93	6.72 H	3170 D	411	195	208	7	303	1880 D	24	0.43	0.02	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	1.85	<0.1	<0.05	<0.001	<0.1	0.0012	1.6	5.1	6.7	0.008 U	1.3	2.2
EPA 02	N	1/10/2018	6,844.17	7.03	6.96 H	3230 D	421	203	233 D	8	263	2170 D	25	0.34	<0.01	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	1.86	0.001	<0.005	<0.001	<0.01	0.0014	1.2	3	4.2	0.2	0.5 U	2.5
EPA 02	Dup	1/10/2018	no data	7.03	6.77 H	3270 D	428	205	234 D	8	275	2130 D	24	0.41	<0.01	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	0.002	2.06	0.001	<0.005	<0.001	<0.01	0.0014	1.3	2.4	3.7	0.1 U	-0.8 U	2.2
EPA 02	N	4/4/2018	6,843.93	6.94	6.87 H	3380 D	432	200	209	7	273	2180 D	27	0.28	0.04	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	1.99	<0.001	<0.005	<0.001	<0.01	0.0007	1.2	8.3	9.5	0.1 U	0.5 U	1.6
EPA 02	Dup	4/4/2018	no data	6.91	6.77 H	3350 D	431	199	210	7	283	2170 D	27	0.43	<0.01	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	1.93	<0.001	<0.005	<0.001	<0.01	0.0007	1.6	3.8	5.4	0.2	0.6 U	2.4
EPA 02	N	7/11/2018	6,843.72	6.81	7.02 H	3420 D	450	211	218 D	7	268	2000 D	25	0.24	0.04	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	1.77	<0.001	<0.005	<0.001	<0.01	0.0011	1.3	6.6	7.9	0.1 U	0.7 U	2.3
EPA 02	Dup	7/11/2018	no data	6.77	6.75 H	3240 D	439	203	212 D	7	285	1950 D	23	0.4	<0.01	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	0.001	1.79	<0.001	<0.005	<0.001	<0.01	0.001	1.4	3.3	4.7	-0.006 U	0.2 U	2.2
EPA 02	N	10/3/2018	6,843.74	6.95	7.07 H	3430 D	449	220	217	8	263	2160 D	25	0.32	0.01	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	1.74	<0.001	<0.005	<0.001	<0.01	0.0016	1.3	5.2	6.5	0.04 U	-0.05 U	2.1
EPA 02	Dup	10/3/2018	no data	6.90	6.76 H	3430 D	470	219	210	7	280	2150 D	24	0.25	0.05	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	0.001	1.76	<0.001	<0.005	<0.001	<0.01	0.0016	1.4	5	6.4	-0.02 U	-0.2 U	2
EPA 02	N	1/8/2019	6,843.53	6.88	6.87 H	3410 D	437	209	230	8	284	2070 D	25	0.19	0.06	<0.50 J	<0.03	no data	<0.001	<0.001	<0.005	<0.001	1.76	<0.001	<0.005	no data	<0.01	0.0017	1	1.8 U	2.8	0.02 U	0.1 U	2.2
EPA 02	Dup	1/8/2019	6,842.67	6.86	6.8 H	3340 D	426	201	224	7	297	2030 D	24	0.33	0.04	<0.50	<0.03	no data	<0.001	<0.001	<0.005	<0.001	1.72	0.001	0.006	no data	<0.01	0.0018	1.1	2.6	3.7	0.03 U	0.1 U	2.7
EPA 02	N	4/9/2019	6,844.04	6.69	6.99 H	3380 D	388	186	198	7	293	2080 D	24	0.24	0.04	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	1.83	0.001	<0.005	<0.001	0.01	0.0018	1.4	2.1	3.5	-0.02 U	0.9 U	1.7
EPA 02	Dup	4/9/2019	6,843.24	6.94	6.91 H	3430 D	407	202	215	7	290	2150 D	24	0.35	0.02	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	1.91	0.001	<0.005	<0.001	0.02	0.0017	1.1	2.4	3.5	0.07 U	0.3 U	1.8
EPA 02	N	8/1/2019	6,843.34	6.86	6.89 H	3470	449	215	216	8	280	2130	24	0.18	0.09	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	2.05	0.001	<0.005	<0.001	<0.01	0.002	1.2	4.2	5.4	0.05	0.03 U	2.3
EPA 02	Dup	8/1/2019	6,842.44	6.91	6.8 H	3520	451	222	226	8	278	2170	24	0.29	0.01	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	2.1	0.001	<0.005	<0.001	<0.01	0.0025	1.4	2	3.4	0.07	-0.09 U	1.4
EPA 02	N	10/8/2019	6,843.60	6.99	7.12 H	3590 DH	458	214	224	8	258	2250 D	25	0.2	0.16	<0.50	<0.03	0.001	<0.001	<0.001	<0.005	<0.001	1.66 DL	0.001	<0.005	<0.001	<0.01	0.0023	1.6	0.6 U	2.2	0.02	0.03 U	2
EPA 02	Dup	10/8/2019	6,842.73	6.94	6.83 H	3590 DH	537	224	156	11	273	2230 D	25	0.33	0.02	<0.50	<0.03	0.001	<0.001	<0.001	<0.005	<0.001	1.04 DL	0.001	<0.005	<0.001	<0.01	0.0026	1.8	0.2 U	2	-0.008 U	0.06 U	2.2
EPA 04	N	7/26/1989	6,868.80	6.90	5.97	4433	559	373	242	9.1	183	3039	37.1	0.91	0.03	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	3.4	< 0.1	< 0.05	< 0.001	< 0.1	0.004	1.9	1.4	3.3	0.9	< 1	3
EPA 04	N	10/5/1989	6,869.10	6.50	6.90	4760	560	371	244	12.3	182	3043	38.9	0.98	0.1	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	3.1	< 0.01	< 0.05	< 0.001	< 0.1	0.003	2	1.9	3.9	0.3	2.2	3
EPA 04	N	1/16/1990	6,869.40	6.50	6.76	4554	491	343	229	8.95	217	2919	37.5	0.99	0.1	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	3.4	< 0.1	< 0.05	< 0.001	< 0.1	0.0007	1.3	3.4	4.7	2.8	< 1	3.5
EPA 04	N	4/17/1990	6,869.30	6.50	6.90	4604	500	347	223	7.7	194	2851	38.4	1.02	0.15	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	2.5	< 0.1	< 0.05	< 0.001	< 0.1	0.002	0.8	1.6	2.4	< 0.2	2.4	1.5
EPA 04	N	7/17/1990	6,869.10	6.40	6.70	4642	526	367	226	9.2	201	2855	36.4	0.7	0.06	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	3.31	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.8	4.4	5.2	< 0.2	1.5	< 1
EPA 04	N	10/16/1990	6,869.10	6.40	7.15	4645	515	368	232	9.2	193	2987	42.7	0.82	0.11	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.01	< 0.05	3.31	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.5	< 1	1.5	< 0.2	1.1	2
EPA 04	N	1/8/1991	6,869.00	6.50	6.65	4644	494	337	225	17	185	3039	40.1	0.99	0.04	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	3.27	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.5	2.7	4.2	< 0.2	< 1	2
EPA 04	N	4/17/1991	6,869.50	6.50	7.22	4759	525	392	238	8.9	161	3260	40.2	0.97	< 0.01	< 1	0.11	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.87	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.7	4.9	5.6	< 0.2	< 1	< 1
EPA 04	N	7/3/1991	6,869.60	6.60	6.80	4686	504	352	210	7.7	184	3345	37.8	1.04	0.05	< 1	0.3	< 0.001	< 0.01	< 0.01	0.01	< 0.05	3.21	0.03	< 0.05	< 0.001	< 0.1	0.0029	1.5	5.1	6.6	< 0.2	< 1	1
EPA 04	N	10/22/1991	6,870.20	6.50	6.56	4651	502	350	221	8.2	188	2948	44.2	1.16	0.04	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	3.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0684	0.7	3.9	4.6	< 0.2	1.8	< 1
EPA 04	N	1/23/1992	6,870.50	6.40	6.52	4263	490	344	211	8	184	2997	42.4	1.14	< 0.01	< 1	0.14	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.95	< 0.1	< 0.05	< 0.001	< 0.1	0.007	1.2	< 1	1.2	< 0.2	1.9	1

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 04	N	4/2/1992	6,870.50	6.40	7.82	4554	495	348	258	9.3	210	2963	37.3	1.19	< 0.01	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.34	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.5	5.4	5.9	< 0.2	9.1	< 1
EPA 04	N	7/15/1992	6,869.70	6.60	7.55	4808	482	336	238	9	173	3072	41.2	0.73	0.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.19	< 0.1	< 0.05	< 0.001	< 0.1	0.004	1.9	5	6.9	< 0.2	< 1	2
EPA 04	N	10/14/1992	6,869.80	6.80	6.87	4904	526	357	230	8.6	174	3164	40.2	0.79	< 0.1	< 1	0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.41	< 0.1	< 0.05	< 0.001	< 0.1	0.029	1.9	7.1	9	< 0.2	< 1	2.1
EPA 04	N	1/13/1993	6,870.00	6.60	6.98	4631	506	343	228	9.7	177	3107	38.8	0.21	< 0.1	< 1	0.1	< 0.001	< 0.01	< 0.01	0.02	< 0.05	3.47	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1	13.8	14.8	< 0.2	< 1	1.1
EPA 04	N	4/15/1993	6,870.50	6.60	7.05	4684	452	337	242	7.4	175	3006	39.4	0.98	0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.55	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1	1.1	2.1	< 0.2	< 1	1.2
EPA 04	N	7/20/1993	6,871.10	6.70	7.11	4351	519	369	211	7.8	203	3081	37.4	0.84	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.81	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.1	3.5	4.6	< 0.2	< 1	1.5
EPA 04	N	10/12/1993	6,868.80	7.10	6.47	4585	533	332	217	7.8	189	2962	34.3	0.79	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.01	< 0.05	3.08	< 0.1	< 0.05	< 0.001	< 0.1	0.003	1.2	2.7	3.9	< 0.2	1.3	5.2
EPA 04	N	1/11/1994	6,869.50	6.80	6.88	4530	543	336	219	7.2	178	3119	35.8	0.89	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.59	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.1	3	4.1	< 0.2	< 1	6.6
EPA 04	N	4/20/1994	6,870.50	6.70	6.44	4612	544	346	233	7.3	167	3065	37.9	1.42	< 0.1	< 1	0.15	0.002	< 0.01	< 0.01	< 0.01	< 0.05	2.77	< 0.1	< 0.05	< 0.001	< 0.1	0.001	2	3	5	< 0.2	1.8	6.7
EPA 04	N	7/26/1994	6,870.40	6.70	6.45	4420	578	359	225	8.2	172	2863	35.7	0.93	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.4	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1.9	5.1	7	< 0.2	< 1	9.7
EPA 04	N	10/11/1994	6,870.30	6.60	7.42	4528	539	380	229	8.3	195	3133	37.9	1.11	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.95	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.6	2.3	3.9	< 0.2	< 1	5.2
EPA 04	N	1/10/1995	6,870.40	6.50	6.98	4598	640	286	210	9.5	190	3090	38.3	1.48	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.42	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.7	2.5	4.2	0.2	3	5.6
EPA 04	N	4/6/1995	6,870.60	6.60	6.99	4715	640	328	212	8.3	189	3268	39.3	1.7	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.25	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.4	3	4.4	< 0.2	< 1	6.1
EPA 04	N	7/11/1995	6,870.30	6.80	7.44	3894	485	325	194	7.4	253	2490	35.1	1.29	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.76	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.7	3.1	3.8	0.4	< 1	5
EPA 04	N	10/10/1995	6,870.40	6.70	7.04	4004	515	335	220	8	217	2641	33.1	1.04	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	2.89	< 0.1	< 0.05	< 0.001	< 0.1	0.0008	1.5	4.2	5.7	0.4	< 1	2.2
EPA 04	N	1/9/1996	6,870.30	6.80	7.89	4093	505	335	213	8.3	257	2637	34.4	0.75	< 0.1	< 1	< 0.1	0.003	< 0.01	< 0.01	< 0.01	< 0.05	2.83	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.1	2.4	3.5	< 0.2	2.6	< 1
EPA 04	N	4/10/1996	6,870.20	6.90	7.63	4412	544	338	199	7.6	223	3002	36.6	0.85	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.2	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.2	3.3	4.5	< 0.2	< 1	< 1
EPA 04	N	7/17/1996	6,870.20	6.80	6.76	4161	485	300	221	8.3	216	2580	38	0.69	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.85	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	0.5	< 1	0.5	< 0.2	< 1	< 1
EPA 04	N	10/8/1996	6,870.10	6.60	7.12	4390	555	358	211	8.3	196	2721	35.3	0.79	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.89	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.2	< 1	1.2	< 0.2	< 1	< 1
EPA 04	N	1/28/1997	6,870.10	6.80	7.51	4290	510	335	192	7.84	222	2895	44	0.77	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.82	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.5	< 1	1.5	< 0.2	< 1	2.1
EPA 04	N	4/15/1997	6,869.90	6.40	7.38	4390	544	354	212	8.5	222	2829	39.4	0.83	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.97	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.9	1.2	2.1	< 0.2	< 1	2.3
EPA 04	N	7/15/1997	6,869.50	6.50	7.22	4320	556	338	200	8	227	2800	38.9	0.79	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.58	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1	4.1	5.1	< 0.2	< 1	< 1
EPA 04	N	10/15/1997	6,869.40	6.40	7.60	4480	591	372	202	7.8	209	2900	49.1	0.82	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.06	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.6	< 1	0.6	< 0.2	< 1	< 1
EPA 04	N	1/20/1998	6,870.30	6.60	7.85	4480	588	366	216	8.7	212	3100	41.9	1.08	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.25	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1	< 1	1	< 0.2	< 1	< 1
EPA 04	N	4/14/1998	6,869.50	6.70	7.08	4480	586	340	226	8.2	209	3010	35.1	0.85	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.88	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	1.5	< 1	1.5	< 0.2	< 1	< 1
EPA 04	N	7/14/1998	6,869.20	6.60	7.25	4620	576	366	223	8.8	200	3000	36.7	0.86	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.98	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	0.6	3.7	4.3	< 0.2	< 1	< 1
EPA 04	N	10/13/1998	no data	6.41	7.84	4520	579	348	228	8.6	218	3000	36.1	0.98	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.87	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.2	3.9	5.1	< 0.2	< 1	< 1
EPA 04	N	1/12/1999	6,869.50	6.60	7.53	4590	615	347	199	8	214	3000	37.2	0.92	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.78	< 0.1	< 0.05	< 0.001	< 0.1	0.0033	1.5	4.2	5.7	< 0.2	< 1	< 1
EPA 04	N	4/13/1999	6,869.80	6.50	7.46	4590	582	343	206	8.2	208	2860	43.8	0.97	0.11	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3	< 0.1	< 0.05	< 0.001	< 0.1	0.0017	2.2	3.5	5.7	< 0.2	2.2	2.2
EPA 04	N	7/20/1999	6,869.50	6.50	7.11	4790	555	323	193	10.4	207	2550	40	0.85	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.33	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	0.9	1.5	2.4	< 0.2	1.5	1.5
EPA 04	N	10/12/1999	6,869.20	6.60	7.94	4830	556	332	193	8.4	641	2780	39	0.87	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.93	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.2	3.3	4.5	< 0.2	< 1	1.4
EPA 04	N	1/11/2000	6,869.50	6.50	7.51	4680	557	332	187	8.8	204	2730	36.2	0.82	< 0.1	< 1	0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.1	< 0.1	0.06	< 0.001	< 0.1	0.0021	1	< 1	1	< 0.2	< 1	< 1
EPA 04	N	5/15/2000	6,869.10	6.70	7.42	4810	542	366	194	9.1	173	3000	37.5	1.03	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	4.15	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	1.9	3.8	5.7	< 0.2	< 1	1.3
EPA 04	N	7/11/2000	6,868.90	6.54	7.07	4790	574	386	199	8.4	171	2910	38.8	0.97	< 0.1	< 1	< 0.1	< 0.001	< 0.01	0.007	< 0.01	< 0.05	3.37	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	< 2	2.4	2.4	< 0.2	< 1	1.8
EPA 04	N	10/3/2000	6,868.90	6.61	7.21	4740	541	372	193	9.2	175	2770	36.5	0.74	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.66	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	1.3	3.5	4.8	< 0.2	< 1	1.4
EPA 04	N	1/9/2001	6,868.95	6.73	7.30	4680	555	373	164	8.7	174	2890	43.4	0.88	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.28	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.5	5	6.5	< 0.2	< 1	2.2
EPA 04	N	4/3/2001	6,868.80	6.70	7.06	4620	651	427	170	8.1	177	3230	42.1	1.01	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.37	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.2	3.8	5	< 0.2	< 1	1.8
EPA 04	N	7/17/2001	6,868.25	6.94	7.02	4780	533	372	173	9.1	172	2690	48.3	1.01	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.22	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.1	5.8	6.9	< 0.2	< 1	2.2
EPA 04	N	10/9/2001	6,868.30	6.55	6.80	4770	520	360	165	8.7	174	2700	46.3	0.86	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.65	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.5	3.7	5.2	< 0.2	< 1	< 1
EPA 04	N	1/14/2002	6,868.25	6.75	6.90	4730	624	413	165	10.5	178	2980	46.2	0.85	0.16	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.59	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.5	5.4	6.9	< 0.2	< 1	< 1
EPA 04	N	4/9/2002	6,867.90	6.54	7.27	4790	545	369	186	9	167	2880	39.5	0.82	0.31	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.53	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.3	2	3.3	< 0.2	< 1	1.3
EPA 04	N	7/16/2002	6,867.85	6.52	7.53	4740	533	369	172	10.4	163	2870	43.1	1.07	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.37	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.4	< 1	1.4	< 0.2	< 1	< 1
EPA 04	N	10/15/2002	6,867.70	6.32	7.06	4240	613	414	196	9.1	179	3260	40	1.15	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.4	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	1.7	< 1	1.7	< 0.2	< 1	< 1
EPA 04	N	1/14/2003	6,867.38	6.61	7.13	4720	461	319	154	9.6	164	2420	30.5	1.21	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.29	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	1.9	< 1	1.9	< 0.2	< 1	2
EPA 04	N	4/14/2003	6,867.44	6.67	7.07	4770	538	386	201	12.5	162	2940	37.9	1.17	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.33	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.7	7.9	9.6	< 0.2	< 1	3
EPA 04	N	7/15/2003	6,867.14	6.44	7.30	4820	552	374	186	9.3	168	2880	35	1.15	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.35	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.5	3.1	4.6	< 0.2	< 1	< 1.0
EPA 04	N	10/14/2003	6,866.96	6.49	7.42	4760	626	416	189	8.6	158	3140	38.9	0.91	< 0.1	< 1	0.2	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.32	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	0.5	5.6	6.1	< 0.2	< 1	1.5
EPA 04	N	1/13/2004	6,866.80	6.53	7.30	4780	603	417	188	10.2	166	3160	39.2	1.1	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.74	< 0.1	< 0.05	< 0.001	< 0.1	0.0004 D	1.1	< 1.0	1.1	< 0.2	< 1.0	2.1
EPA 04	N	4/13/2004	6,866.82	6.35	6.55	4730	550	385	188	9.6	167	3040	43.4	1.21	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.41	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0004 D	0.7	< 1	0.7	< 0.2	< 1	1.7
EPA 04	N	7/20/2004	6,866.61	6.64	6.40	4690	597 D	391 D	200	8.2	183	3020 D	38	1.08	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.27	< 0.1	< 0.05	< 0.001	< 0.1	0.0004 D	1.6	2.4	4	< 0.2	< 1.0	2.1
EPA 04	N	10/12/2004	6,866.64	6.67	6.80	4850	586 D	408 D	188	8.4	201	3060 D	37	1.02	< 0.10	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.1	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.5	3.3	4.8	< 0.2	< 1.0	1.9
EPA 04	N	1/11/2005	6,866.93	6.70	6.81	4750	557 D	382 D	192	8.6	165	2890 D	39	0.78	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.16	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	0.7	2.5	3.2	< 0.2	< 1.0	3.6
EPA 04	N	4/12/2005	no data	no data	6.79	4550	592	410	201	8.8	165	3190	40	0.85	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.39	< 0.1	< 0.05	< 0.001	< 0.1	0.0007	0.9	2	2.9	< 0.2	< 1.0	1.7
EPA 04	N	7/19/2005	6,866.15	6.28	6.82	4720	549 D	386 D	193	8.3	180	2820 D	33	0.95	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.23	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.2	2	3.2	< 0.2	< 1.0	2.6
EPA 04	N	10/11/2005	6,866.02	6.65	7.02	4580	544 D	382 D	190	8.9	174	2880 D	39	0.77	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.24	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	1.4	3.3	4.7	< 0.2	< 1.0	1.6
EPA 04	N	1/17/2006	6,865.81	6.79	7.20	4480	525 D	372 D	179	8.7	177	2720 D	38	1.07	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.42	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.4	< 1.0	1.4	< 0.2	< 1.0	2.8
EPA 04	N	4/11/2006	6,865.71	6.64	7.22	4530	578 D	407 D	186	8.5	217	2980 D	41	1.09	< 0.1	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.12	< 0.1	< 0.05	< 0.001	< 0.1	0.0006	0.9	4.9	5.8	< 0.2	< 1.0	1.3
EPA 04	N	7/25/2006	6,865.55	6.58	7.37	4420	570 D	388 D	196	9.2	254	3000 D	38	0.81	0.2	< 1.0	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	2.94	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	0.8	3.3	4.1	< 0.2	< 1.0	< 1.0
EPA 04	N	10/10/2006	6,865.45	6.60	6.89	4330	542 D	374 D	186	8.5	173	2830 D	34	0.78	< 0.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.01	< 0.005	< 0.01	< 0.05	3.53	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.1	1.8	2.9	< 0.2	< 1	1.4
EPA 04	N	1/23/2007	6,865.28	6.69	6.93	4620	534 D	376 D	187	9.3	165	2840 D	40	0.77	<0.1	<0.5	<0.1	<0.001	<0.01	<0.01	<0.005	<0.01	<0.05	3.54	<0.1	<0.05	<0.001	<0.1	0.0004	1	<1	1	<0.2	<1	3.1

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 04	N	4/16/2007	6,865.20	6.60	6.82	4560	542 D	392 D	167	8.7	185	3060 D	40	0.82	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.3	<0.1	<0.05	<0.001	<0.1	0.0004 D	1	<1	1	<0.2	<1	1.1
EPA 04	N	7/16/2007	6,864.75	6.62	7.08	4390	555 D	388 D	176	8	181	2980 D	34	0.68	0.1	<0.5	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	3.04	<0.1	<0.05	<0.001	<0.1	0.0004	1.5	<1	1.5	<0.2	<1	1.7
EPA 04	N	10/8/2007	6,864.52	6.67	6.91	4520	543 D	374 D	170	8.1	128	2840 D	36	0.64	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.43	<0.1	<0.05	<0.001	<0.1	<0.0003	0.9	<1	0.9	<0.2	<1	2.3
EPA 04	N	1/21/2008	6,864.80	6.73	7.07 H	4250	533 D	359 D	140	8.5	174	2820 D	44 D	0.56	0.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	3.46	< 0.1	< 0.05	0.002	< 0.1	0.0005	1.7	< 1	1.7	< 0.2	4.4	1.5
EPA 04	N	4/14/2008	6,864.50	6.33	6.83	4380	578	396	183 D	8.4	167	2980 D	35	0.61	< 0.1	< 0.5	< 0.1	0.002	< 0.01	< 0.005	< 0.01	< 0.05	3.48	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.2	3	4.2	0.2	0.7 U	2.5
EPA 04	N	7/14/2008	6,864.30	6.77	6.71	4420	516	384	184 D	8	167	3240 D	31	0.54	< 0.1	< 0.5	< 0.1	< 0.003	< 0.01	< 0.005	< 0.01	< 0.05	3.65	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0005	1.4	3	4.4	-0.3 U	0.1 U	1
EPA 04	N	10/13/2008	6,864.08	6.69	6.65	4540 H	561	371	177 D	8	153	3120 D	34	0.9	< 0.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	3.4	< 0.1	< 0.05	< 0.001	< 0.1	0.0004	1.1	2.6	3.7	-0.3 U	-0.1 U	2.2
EPA 04	N	1/19/2009	6,863.70	6.69	7.31	3910 H	499	353	172	8	160	2850 D	33	0.35	<0.1	<0.5	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.38	<0.1	<0.05	<0.001	<0.1	<0.0003	1	2.5	3.5	0.4	0.3 U	2
EPA 04	N	4/13/2009	6,863.90	6.52	6.55	4630	558 D	368	182 D	9	167	2950 D	36	0.6	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.31	<0.1	<0.05	<0.001	<0.1	0.0006	1.2	2.8	4	-0.1 U	0.7 U	1.6
EPA 04	N	7/13/2009	6,863.60	6.47	7.14 H	4590 H	562	372	181	9	155	3030 DH	38	0.8	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.08	<0.1	<0.05	0.001	<0.1	0.0003	1	2.5	3.5	-0.1 U	-0.6 U	3.3
EPA 04	N	10/12/2009	6,863.70	6.73	7.07	4640	540	364	183	9	161	3010 D	42	0.76	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.48	<0.1	<0.05	<0.001	<0.1	0.0004	1.2	3.4	4.6	-0.0009 U	-0.2 U	1.6
EPA 04	N	1/11/2010	6,863.30	6.8	6.81	4540 D	578 D	389	184 D	9	167	3030 D	30	0.58	3.7	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.35	<0.1	<0.05	<0.001	<0.1	<0.0003	0.73	3	3.73	0.02 U	0.1 U	1.6
EPA 04	N	4/12/2010	6,863.50	6.67	7.06	4480 D	554	376	185	9	179	3280 D	38	0.8	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.5	<0.1	<0.05	<0.001	<0.1	<0.0003	1.4	3.4	4.8	0.07 U	-0.6 U	1.6
EPA 04	N	7/19/2010	6,863.20	6.51	6.94	4540 D	568	396	180	8	157	3010 D	34 D	1.21	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3	<0.1	<0.05	<0.001	<0.1	0.0004	1.5	3	4.5	0.08 U	-0.1 U	3.3
EPA 04	N	10/11/2010	6,863.35	6.64	7.51	3560 D	560	373	194	9	153	3210 D	31 D	0.89	0.9	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.19	<0.1	<0.05	<0.001	<0.1	0.0004	1.3	3.3	4.6	0.06 U	2.4	1.9
EPA 04	N	1/10/2011	6,863.35	6.8	7.41	4550 D	580	384	186	9	185	3060 D	35 D	0.77	<0.1	0.71	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	3.34	<0.1	<0.05	<0.001	<0.1	0.0003	1.7	3.5	5.2	0.06 U	0.4 U	3.7
EPA 04	Dup	1/10/2011	no data	6.73	7.52	4300 D	550	370	176	8	168	2860 D	35 D	0.76	<0.1	2.21	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	3.4	<0.1	<0.05	<0.001	<0.1	<0.0003	1.5	3.3	4.8	0.07 U	0.2 U	4
EPA 04	N	4/11/2011	6,862.90	6.71	7.02	4580 D	578	382	192	9	184	3040 D	35 D	0.79	<0.1	0.62	<0.1	0.001	<0.01	<0.005	<0.01	<0.05	3.44	<0.1	<0.05	<0.001	<0.1	0.0003	1.1	2.2	3.3	0.07 U	1.4	1.7
EPA 04	Dup	4/11/2011	no data	6.84	6.92	4440 D	564	374	193	9	165	3030 D	37 D	0.79	<0.1	2.52	<0.1	0.002	<0.01	<0.005	<0.01	<0.05	3.18	<0.1	<0.05	<0.001	<0.1	<0.0003	1	3.1	4.1	0.1 U	1 U	1.3
EPA 04	N	7/18/2011	6,862.80	6.5	7.51	4330 D	560	368	188	9	160	2870 D	35 D	0.8 D	<0.1	<0.50	0.5	<0.001	<0.01	<0.005	<0.01	<0.05	2.94	<0.1	<0.05	<0.001	<0.1	0.0004	0.99	2.9	3.89	0.04 U	-0.3 U	1.1
EPA 04	N	10/10/2011	6,862.90	6.65	7.38	4390 D	578	375	187	9	145	3070 D	37 D	0.9 D	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	2.56	<0.1	<0.05	<0.001	<0.1	0.0004	1.5	2.5	4	0.04 U	0.9 U	2.1
EPA 04	N	1/9/2012	6,862.66	6.84	6.59 H	4430 D	586	353	174	8	148	2930 D	36 D	0.68	<0.1	<0.50	<0.1	<0.001	<0.01	<0.005	<0.01	<0.05	2.73	<0.1	<0.05	<0.001	<0.1	0.0004	1.3	1.2	3.7	0.1 U	0.6 U	1.2
EPA 04	N	4/9/2012	6,862.50	6.7	6.79 H	4450 D	523	374	179	8	167	2740 D	34 D	0.75	<0.1	<0.50	<0.1	<0.01	<0.01	<0.005	<0.01	<0.05	3.62	<0.1	<0.05	<0.001	<0.1	0.0005	1.4	3.7	8.8	0.1 U	0.2 U	1.3
EPA 04	N	7/16/2012	6,862.45	6.55	7.07 H	4640	483	383	185	9	143	3040 D	38 D	0.77	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.87	<0.1	<0.05	<0.001	<0.1	0.0004	0.96	2.4	5.76	0.08 U	0.6 U	1.3
EPA 04	N	10/15/2012	6,862.29	6.85	7.04 H	4500	592	380	191 D	9	153	3010 D	39 D	1.4 D	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.76	<0.1	<0.05	<0.001	<0.1	0.0003	1.1	3.6	4.7	0.3 U	0.5 U	1.7
EPA 04	N	1/15/2013	6,862.34	6.61	6.81 H	4480	599	394	193 D	9	169	2950 D	34 D	0.78	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.44	<0.1	<0.05	<0.001	<0.1	<0.0003	1.2	2.5	3.7	0.07 U	0.3 U	1.3
EPA 04	N	4/8/2013	6,862.62	6.71	6.80 H	4590	554	385	181	9	162	3080 D	35 D	0.72	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.14	<0.1	<0.05	<0.001	<0.1	<0.0003	1.2	1.6	2.8	0.08 U	-0.4 U	2
EPA 04	N	7/15/2013	6,862.08	6.61	7.28 H	4480	540	373	175	8	145	2990 D	45 D	0.68	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.74	<0.1	<0.05	<0.001	<0.1	0.0004	1.1	4.9	6	0.02 U	-0.4 U	1.1
EPA 04	N	10/7/2013	6,861.86	6.76	7.06 H	4440	549	380	185	9	158	2930 D	37 D	0.68	<0.1	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.84	<0.1	<0.05	<0.001	<0.1	0.0005	0.9	2.4	3.3	0.1	0.1 U	1.2
EPA 04	N	1/13/2014	6,861.75	6.90	6.82	4700	565	384	185	9	180	3130	38	0.7	1.9	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.26	<0.1	<0.05	<0.001	<0.1	0.0005	1.1	3.2	4.3	0.07 U	0.3 U	1.3
EPA 04	Dup	4/2/2014	no data	6.91	6.77 H	4450	558	386	189 D	9	174	2970 D	40 D	<0.05	0.7	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.33	<0.1	<0.05	<0.001	<0.1	0.0003	1	3	4	0.02 U	0.2 U	3.1
EPA 04	N	7/9/2014	6,861.61	6.75	7.43 H	4330	527	402	191 D	9	135	2950 D	34 D	<0.05	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.76	<0.1	<0.05	<0.001	<0.1	<0.0003	1	2.1	3.1	0.05 U	0.7 U	1.6
EPA 04	N	10/8/2014	6,861.60	6.92	7.02 H	4520	477	374	175	8	149	2910 D	34 D	<0.05	0.6	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.41	<0.1	<0.05	<0.001	<0.1	0.0005	1.8	3.4	5.2	-0.02 U	0.3 U	2.3
EPA 04	N	1/7/2015	6,861.32	6.93	6.87 H	4410	490	381	180	9	159	3060 D	43 D	<0.05	0.6	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.28	<0.1	<0.05	<0.001	<0.1	<0.0003	1.2	3.9	5.1	0.03 U	-0.1 U	1.5
EPA 04	N	4/8/2015	6,861.67	6.79	6.94 H	4590	487	384	184	8	157	2940 D	37 D	<0.05	0.5	<0.5	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.82	<0.1	<0.05	<0.001	<0.1	<0.0003	1.7	3	4.7	-0.01 U	-0.1 U	6
EPA 04	N	7/8/2015	6,861.36	6.77	7.17 H	4460	503	340	159	13	150	3000 D	37 D	0.06	0.4	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.8	<0.1	<0.05	<0.001	<0.1	0.0003	0.85	1.0 U	0.85	0.06 U	0.01 U	2.9
EPA 04	N	10/7/2015	6,861.23	6.87	6.88 H	4540	499	387	183	9	153	2970 D	37 D	<0.05	0.6 D	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.73	<0.1	<0.05	<0.001	<0.1	<0.0003	1.6	3.7	5.3	0.3	-0.3 U	4.2
EPA 04	N	1/6/2016	6,861.42	6.93	6.74 H	4560	482	395	180	8	176	3080 D	37 D	0.28	0.3	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.39	<0.1	<0.05	<0.001	<0.1	<0.0003	1.3	3.1	4.4	0.06 U	0.2 U	5.2
EPA 04	N	4/6/2016	6,860.79	6.89	6.88 H	4520	494	383	179	8	155	3060 D	35 D	0.34	0.2	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.26	<0.1	<0.05	<0.001	<0.1	<0.0003	1.3	3.6	4.9	0.03 U	0.8 U	3.7
EPA 04	N	7/13/2016	6,860.86	6.71	6.91 H	4550	492	389	180	8	151	2940 DH	41 D	0.1	0.4	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.52	<0.1	<0.05	<0.001	<0.1	<0.0003	1.4	4.3	5.7	0.1 U	0.3 U	2.5
EPA 04	N	10/5/2016	6,861.05	6.84	7.16 H	4450	490	392	179	8	138	3130 D	37 D	0.27	0.3	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.5	<0.1	<0.05	<0.001	<0.1	<0.0003	1.2	3.1	4.3	0.03 U	0.2 U	2.7
EPA 04	N	1/11/2017	6,861.08	6.92	6.86 H	4440 D	514	385	180	9	171	3130 D	39 D	<0.05	0.9 D	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.07	<0.1	<0.05	<0.001	<0.1	0.0003	0.95	1.8	2.75	0.2 U	0.4 U	7.7
EPA 04	N	4/5/2017	6,860.58	6.68	6.89 H	4450 D	516	396	186	9	162	3210 D	39 D	0.28	0.5	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.29	<0.1	<0.05	<0.001	<0.1	<0.0003	1.1	3.2	4.3	0.09 U	0.6 U	2
EPA 04	N	7/12/2017	6,860.53	6.75	7.45 H	4310 D	474	377	169	8	131	2850 D	36 D	0.39	0.21	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	2.88	<0.1	<0.05	<0.001	<0.1	<0.0003	0.8	1.8	2.6	0.03 U	0.5 U	1.7
EPA 04	N	10/4/2017	6,860.48	6.78	6.78 H	4470 D	484	379	181	9	167	2860 D	34 D	<0.05	0.59	<0.50	<0.1	<0.001	<0.001	<0.005	<0.01	<0.001	3.42	<0.1	<0.05	<0.001	<0.1	<0.0003	0.9	4.4	5.3	-0.03 U	0.8 U	1.5
EPA 04	N	1/10/2018	6,860.64	6.90	6.93 H	4380 D	488	399	179 D	9	146	3120 D	36 D	0.13	0.38	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	3.46 D	<0.001	<0.005	<0.001	<0.01	<0.0003	1.2	3.4	4.6	0.2 U	-1 U	2
EPA 04	N	4/4/2018	6,860.37	6.73	6.70 H	4690 D	497	388	185	9	156 H	3020 D	36 D	0.19	0.34	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	3.54	<0.001	<0.005	<0.001	<0.01	<0.0003	1.1	4.1	5.2	0.08 U	1.1	2.1
EPA 04	N	7/11/2018	6,860.20	6.67	6.88 H	4590 D	454	356	167	8	145	2960 D	35 D	0.26	0.28	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	3.12	<0.001	<0.005	0.001	<0.01	<0.0003	1.7	5.8	7.5	0.07 U	0.6 U	1.3
EPA 04	N	10/3/2018	6,860.26	6.78	6.85 H	4640 D	532	403	182 D	9	161	3110 D	36 D	0.13	0.41	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	3.03	<0.001	<0.005	<0.001	<0.01	<0.0003	1.1	2.1	3.2	0.03 U	0.06 U	1.8
EPA 04	N	1/8/2019	6,859.97	6.67	6.9 H	4570 D	502	390	192 D	10	161	3110 D	38 D	<0.05	0.56	<0.50 J	<0.03	no data	<0.001	<0.001	<0.005	<0.001	2.96	<0.001	0.007	no data	<0.01	<0.0003	0.8	2.1	2.9	0.06 U	0.3 U	2.3
EPA 04	N	4/9/2019	6,860.52	6.07	6.9 H	4760 D	467	364	172	8	179	3060 D	35 D	0.18	0.39	<0.50 J	0.12	<0.001	<0.001	<0.001	<0.005	<0.001	3.15	<0.001	<0.005	<0.001	0.02	<0.0003	1.1	2.5	3.6	0.03 U	0.8 U	1
EPA 04	N	8/1/2019	6,859.82	6.68	6.77 H	4720	526	389	175	9	180	3090	36	0.27	0.28	<0.50	<0.03	<0.001	<0.001	<0.001	<0.005	<0.001	3.9	<0.001	<0.005	<0.001	<0.01	0.0004	1.2	2.8	4	0.1	-0.07 U	1.2
EPA 04	N	10/8/2019	6,860.01	6.82	6.74 H	4660 DH	492	393	181	9	176	3140 D	38	<0.05	0.57	<0.50	<0.03	0.001	<0.001	<0.001	<0.005	<0.001	2.46 DL	<0.001	<0.005	<0.001	<0.01	0.0004	1.1	0.1 U	1.2	0.005	0.3 U	1.5
EPA 05	N	7/26/1989	6,895.20	6.50	6.15	5192	625	508	151	8.5	295	3279	93.1	0.3	15.8	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.02	< 0.05	1.7	< 0.1	< 0.05	0.001	< 0.1	0.0069	1.7	1.3	3	3.2	1.2	2.2
EPA 05	N	10/5/1989	6,895.40	6.10	6.90	5726	639	531	171	12.3	512	3255	141	0.12	29	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.04	< 0.05	1.3	< 0.01	< 0.05	< 0.001	< 0.1	0.022	1.1	1.8	2.9	0.3	< 1	1.5
EPA 05	N	1/16/1990	6,895.60	6.10	6.40	5698	628	539	186	9.49	567	3175	169	0.18	53.2	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	1.8	< 0.1	< 0.05	0.002	< 0.1	0.032	0.7	2.8	3.5	0.2	< 1	1.1
EPA 05	N	4/17/1990	6,895.50	6.00	6.80	5882	662	555	199	9.5	671	3159	172	0.31	53	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.03	< 0.05	2.2	< 0.1	0.1	< 0.001	< 0.1	0.041	1.1	2.2	3.3	< 0.2	< 1	1.8
EPA 05	N	7/17/1990	6,895.10	6.00	6.46	5886	723	548	204	10.3	672	3146	152	0.15	41	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.03	< 0.05	2.36	< 0.1	< 0.05	0.001	< 0.1	0.0475	2.1	2.3	4.4	< 0.2	3.6	2
EPA 05	N	10/16/1990	6,895.00	6.00	7.11	6192	647	540	215	9	742	3391	199	0.18	53	< 1	< 0.1	< 0.001	< 0.05	< 0.01	0.03	< 0.05	2.79	< 0.1	< 0.05	< 0.001	< 0.1	0.0371	0.9	1.6	2.5	< 0.2	< 1	< 1
EPA 05	N	1/8/1991	6,894.80	6.10	7.22	5554	641	485	171	7.3	586	3088	137	0.27	36	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.03	< 0.05	3.17	< 0.1	< 0.05	0.001	< 0.1	0.0003	0.8	< 1	0.8	< 0.2	< 1	< 1

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 05	N	4/17/1991	6,894.90	5.90	7.43	6608	678	591	241	10.6	380	3536	219	0.23	68	< 1	0.27	< 0.001	< 0.01	< 0.0045	0.06	< 0.05	3.81	< 0.1	0.09	0.001	< 0.1	0.04	0.6	< 1	0.6	< 0.2	2.3	< 1
EPA 05	N	7/3/1991	6,894.60	6.10	6.69	5926	634	512	187	8.7	326	3440	146	0.38	39.4	< 1	0.15	< 0.001	< 0.01	< 0.01	0.03	< 0.05	2.8	0.1	< 0.05	0.001	< 0.1	0.0422	0.7	3.1	3.8	< 0.2	< 1	< 1
EPA 05	N	10/22/1991	6,894.70	6.00	6.95	7076	676	712	263	10.2	653	3873	226	0.32	43.1	< 1	0.17	< 0.001	< 0.01	< 0.01	0.05	< 0.05	3.31	< 0.1	0.1	0.003	< 0.1	0.0021	0.7	1.8	2.5	< 0.2	1.8	< 1
EPA 05	N	1/23/1992	no data	6.10	6.81	6207	607	679	246	9.7	312	3679	183	0.25	26.3	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.06	< 0.05	3	< 0.1	0.08	< 0.001	< 0.1	0.064	0.7	1	1.7	< 0.2	1.4	< 1
EPA 05	N	4/2/1992	6,894.60	5.90	7.21	7719	703	695	336	13.3	1091	4080	289	0.32	28.9	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.05	< 0.05	2.56	< 0.1	< 0.05	0.013	< 0.1	0.002	0.2	2.8	3	< 0.2	6	< 1
EPA 05	N	7/15/1992	6,894.20	6.20	7.18	7158	570	659	328	11.4	878	3934	192	0.23	29.6	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.06	< 0.05	2.31	< 0.1	0.07	0.003	< 0.1	0.005	0.9	4.5	5.4	< 0.2	1.5	< 1
EPA 05	N	10/15/1992	6,894.10	6.20	6.85	7824	612	774	365	12.9	857	4186	215	0.19	67.4	< 1	< 0.1	0.001	< 0.01	< 0.01	0.1	< 0.05	1.96	< 0.1	0.12	0.005	< 0.1	0.105	1.3	< 1	1.3	< 0.2	< 1	1.9
EPA 05	N	1/12/1993	6,894.50	6.10	6.78	8011	599	791	344	12.7	880	4407	214	0.19	93.5	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.12	< 0.05	1.65	< 0.1	0.06	0.03	< 0.1	0.077	1	2.2	3.2	< 0.2	< 1	1.5
EPA 05	N	4/15/1993	6,894.50	6.10	7.01	7246	621	751	303	8.8	926	4024	179	0.34	118	< 1	< 0.1	< 0.001	< 0.001	< 0.01	0.05	< 0.05	1.95	< 0.1	0.08	0.003	< 0.1	0.036	0.3	< 1	0.3	< 0.2	1.6	< 1
EPA 05	N	7/20/1993	6,894.30	6.20	7.14	6893	598	748	371	9.7	1000	3990	224	0.22	91.6	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.07	< 0.05	1.36	< 0.1	0.09	0.005	< 0.1	0.073	1.5	2.7	4.2	< 0.2	< 1	1.8
EPA 05	N	10/12/1993	6,892.00	6.50	6.76	7441	599	923	345	9.4	1177	4387	197	< 0.05	72	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.08	< 0.05	1.39	< 0.1	0.08	0.004	< 0.1	0.084	1.9	2.3	4.2	< 0.2	2.9	5.3
EPA 05	N	1/11/1994	6,894.00	6.50	7.19	8037	549	857	318	8.4	1109	4491	208	0.15	95.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.07	< 0.05	1.45	< 0.1	0.09	0.002	< 0.1	0.1	0.8	1.2	2	< 0.2	< 1	3.6
EPA 05	N	4/19/1994	6,893.80	6.30	7.72	8035	625	930	408	10.2	693	4651	121	0.25	91	< 1	< 0.1	0.001	< 0.01	< 0.01	0.12	< 0.05	1.19	< 0.1	< 0.05	0.003	< 0.1	0.101	1.9	5.7	7.6	< 0.2	1	10.6
EPA 05	N	7/26/1994	6,893.70	6.30	7.32	7684	601	926	399	9.5	1116	4492	209	0.12	91.9	< 1	0.16	< 0.001	< 0.01	< 0.01	0.07	< 0.05	1.27	< 0.1	0.05	0.002	< 0.1	0.102	1.1	7.7	8.8	< 0.2	1.4	12.8
EPA 05	N	10/11/1994	6,893.50	6.30	7.41	7630	572	998	371	9.4	1077	4448	204	0.13	99.8	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.09	< 0.05	1.02	< 0.1	0.14	0.002	< 0.1	0.095	2.1	< 1	2.1	< 0.2	< 1	2.3
EPA 05	N	1/11/1995	6,893.50	6.30	7.02	8106	581	960	325	10.8	1032	4533	192	0.17	87.3	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.06	< 0.05	1.11	< 0.1	0.09	0.003	< 0.1	0.109	1.1	3.4	4.5	< 0.2	< 1	6.4
EPA 05	N	4/11/1995	6,894.10	6.50	6.85	8693	595	1070	388	10.4	1168	4895	245	0.36	96	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.85	< 0.1	< 0.05	0.004	< 0.1	0.102	0.7	1.9	2.6	< 0.2	< 1	3.6
EPA 05	N	7/11/1995	6,893.30	6.50	7.41	8075	547	1043	388	9.8	1150	4604	205	0.47	82.9	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.065	< 0.05	0.6	< 0.1	0.06	0.004	< 0.1	0.09	1.1	< 1	1.1	< 0.2	< 1	5.6
EPA 05	N	10/10/1995	6,893.40	6.50	7.56	8070	550	1018	385	10.2	1258	4529	201	0.67	86.6	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.05	< 0.05	0.53	< 0.1	0.05	0.012	< 0.1	0.1132	1.4	4.8	6.2	0.7	< 1	2.1
EPA 05	N	1/9/1996	6,893.20	6.60	7.52	7693	508	966	376	10.9	1182	4420	198	1.44	94	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.06	< 0.05	0.49	< 0.1	< 0.05	0.018	< 0.1	0.124	1.3	1.2	2.5	< 0.2	< 1	1.5
EPA 05	N	4/10/1996	6,893.10	6.70	7.54	8569	590	1110	362	10.7	1221	5200	211	2.74	89.2	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.05	< 0.05	0.47	< 0.1	0.05	0.001	< 0.1	0.126	0.8	2.7	3.5	0.7	< 1	< 1
EPA 05	N	7/17/1996	6,893.00	6.40	6.87	8522	510	957	372	11.9	1275	4404	221	1.05	100	1.42	< 0.1	< 0.001	< 0.01	< 0.01	0.06	< 0.05	0.49	< 0.1	0.06	0.004	< 0.1	0.125	0.9	< 1	0.9	< 0.2	< 1	< 1
EPA 05	N	10/8/1996	6,892.90	6.40	7.29	8870	581	1091	389	12	1294	4869	211	5.8	93.1	1.42	< 0.1	< 0.001	< 0.01	< 0.01	0.06	< 0.05	0.51	< 0.1	0.06	0.002	< 0.1	0.117	0.6	< 1	0.6	< 0.2	< 1	< 1
EPA 05	N	1/28/1997	6,892.70	6.50	7.81	8450	538	1050	343	11.3	1208	4620	246	6.24	86.7	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.06	< 0.05	0.48	< 0.1	0.05	0.003	< 0.1	0.086	1.7	< 1	1.7	2	< 1	1.6
EPA 05	N	4/15/1997	6,892.60	6.40	7.65	8670	544	1040	376	12.1	1220	4740	221	6.61	77.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	0.05	< 0.05	0.47	< 0.1	0.06	0.024	< 0.1	0.107	1.8	< 1	1.8	< 0.2	< 1	< 1
EPA 05	N	7/15/1997	6,892.20	6.30	7.43	8720	555	1010	351	12.4	1180	4570	216	7.6	78.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	0.41	< 0.1	0.05	0.006	< 0.1	0.097	0.9	< 1	0.9	< 0.2	< 1	< 1
EPA 05	N	10/21/1997	no data	6.70	7.70	8610	587	1100	368	12.7	1240	4840	254	9.31	90.3	< 1	0.11	< 0.001	< 0.01	< 0.01	0.07	< 0.05	0.53	0.5	0.06	0.018	< 0.1	0.121	0.9	3.3	4.2	< 0.2	< 1	< 1
EPA 05	N	10/13/1998	6,892.60	6.40	7.75	8290	532	1050	372	13.8	1100	5000	223	8.79	81.2	1.1	< 0.1	< 0.001	< 0.01	< 0.005	0.07	< 0.05	0.63	3.1	< 0.05	< 0.001	< 0.1	0.239	2.4	1.5	3.9	< 0.2	< 1	5
EPA 05	N	4/14/1998	6,892.40	6.60	7.16	8500	575	1010	374	13.2	1220	4720	195	1.72	83.7	1.3	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	0.57	0.53	0.05	0.005	< 0.1	0.147	1.4	< 1	1.4	< 0.2	< 1	< 1
EPA 05	N	7/14/1998	6,891.90	6.60	7.69	8620	541	963	364	14	1210	4200	201	11.4	67.7	1.1	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	0.54	0.5	< 0.05	0.005	< 0.1	0.173	1.3	< 1	1.3	< 0.2	< 1	< 1
EPA 05	N	10/13/1998	no data	6.45	7.75	8240	540	979	370	15	1190	4680	198	12.9	80	1	< 0.1	< 0.001	< 0.01	< 0.005	0.05	< 0.05	0.53	0.55	< 0.05	0.005	< 0.1	0.139	1.4	3.1	4.5	< 0.2	< 1	2.2
EPA 05	N	1/12/1999	6,892.00	6.50	7.75	8160	462	909	308	14.4	1140	4600	192	15.5	71.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.04	< 0.05	0.53	0.43	< 0.05	< 0.001	< 0.1	0.149	1.1	3.8	4.9	< 0.2	< 1	< 1
EPA 05	N	4/13/1999	6,892.20	6.50	7.71	8100	522	934	322	12.7	1100	4160	191	12.9	76.4	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	0.53	0.44	< 0.05	0.004	< 0.1	0.13	1	2.1	3.1	< 0.2	3.5	3.5
EPA 05	N	7/20/1999	6,891.94	6.50	7.55	8130	567	949	82	16.6	1090	4580	198	15	73.9	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.05	< 0.05	0.49	0.36	< 0.05	0.004	< 0.1	0.127	1.6	< 1	1.6	< 0.2	2.2	2.2
EPA 05	N	10/12/1999	6,891.80	6.45	7.75	7960	523	899	306	15	1086	4180	191	19.4	64.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.04	< 0.05	0.59	0.35	< 0.05	0.001	< 0.1	0.124	1.2	< 1	1.2	< 0.2	< 1	< 1
EPA 05	N	1/11/2000	6,891.90	6.50	7.78	7920	493	860	286	13.7	1050	3980	166	14.4	53.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	0.51	0.37	0.07	0.005	< 0.1	0.111	0.9	< 1	0.9	< 0.2	< 1	< 1
EPA 05	N	5/3/2000	6,891.80	6.20	7.56	5780	461	595	181	14.7	458	3160	94	22.3	42.3	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.08	< 0.05	1.23	< 0.1	0.1	0.003	< 0.1	0.0365	0.7	2	2.7	< 0.2	< 1	< 1
EPA 05	N	7/11/2000	6,891.50	6.06	7.09	5720	496	630	188	13.5	415	3310	92.7	23	42.5	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.08	0.05	1.16	< 0.1	< 0.05	< 0.001	< 0.1	0.0219	0.7	2.3	3	< 0.2	< 1	< 1
EPA 05	N	10/3/2000	6,891.60	6.14	6.99	5500	466	594	171	14.4	354	3060	85.4	20	37.5	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.08	< 0.05	1.09	< 0.1	0.08	0.001	< 0.1	0.015	0.8	2.7	3.5	< 0.2	< 1	1.4
EPA 05	N	1/9/2001	6,891.60	6.32	6.81	5560	475	591	148	12.7	362	3220	102	20.2	35.2	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.09	< 0.05	1.24	< 0.1	0.11	0.003	< 0.1	0.016	1.3	< 1	1.3	< 0.2	< 1	1.5
EPA 05	N	4/3/2001	6,891.40	6.30	7.22	5510	563	669	155	12	353	3460	96.3	17.5	36.3	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.1	< 0.05	1.39	< 0.1	0.12	0.003	< 0.1	0.015	1.2	< 1	1.2	< 0.2	< 1	< 1
EPA 05	N	7/17/2001	6,891.00	6.65	6.71	5520	448	563	150	13.7	267	2950	108	16.6	37.8	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.1	< 0.05	1.26	< 0.1	0.09	0.002	< 0.1	0.007	1.4	4.1	5.5	< 0.2	< 1	< 1
EPA 05	N	10/9/2001	6,891.10	5.99	6.50	5520	440	550	143	13	240	3000	95.2	16.2	35.8	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.08	< 0.05	0.98	< 0.1	0.07	0.002	< 0.1	0.007	1.7	2.3	4	< 0.2	< 1	< 1
EPA 05	N	1/14/2002	6,891.10	6.73	6.60	5430	531	621	139	14.1	230	3290	97.8	16.7	31	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.11	< 0.05	1.28	< 0.1	0.13	0.002	< 0.1	0.0061	1.7	4.8	6.5	< 0.2	< 1	1.2
EPA 05	N	4/9/2002	6,890.74	6.05	6.80	5450	457	551	150	12.6	199	3150	88.8	15.7	29.8	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.1	< 0.05	1.23	< 0.1	0.11	0.001	< 0.1	0.0046	0.8	1.5	2.3	< 0.2	< 1	1.5
EPA 05	N	7/16/2002	6,890.78	6.58	7.16	5410	452	550	139	13.6	179	3170	77.3	15.7	30.7	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.1	< 0.05	1.25	< 0.1	0.09	0.001	< 0.1	< 0.0003	1.5	< 1	1.5	< 0.2	< 1	2.7
EPA 05	N	10/15/2002	6,890.63	6.30	6.77	4610	513	608	151	12.5	168	3580	75.1	15.1	12.3	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.09	< 0.05	1.17	< 0.1	0.1	< 0.001	< 0.1	0.0026	1.8	< 1	1.8	< 0.2	< 1	2.7
EPA 05	N	1/14/2003	6,890.29	6.59	6.75	5320	429	524	145	15.1	160	2930	67.9	13.9	28.9	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.1	< 0.05	1.22	< 0.1	0.09	< 0.001	< 0.1	0.003	1.1	< 1	1.1	< 0.2	< 1	2.3
EPA 05	N	4/14/2003	6,890.24	6.00	6.75	5350	455	569	160	15.8	146	3210	80.2	12.6	29.8	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.11	< 0.05	1.41	< 0.1	0.09	< 0.001	< 0.1	0.002	1.5	3.5	5	< 0.2	< 1	3.2
EPA 05	N	7/9/2003	6,890.01	5.69	6.99	5340	486	580	139	12.6	138	3420	72.4	13.2	25.9	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.1	< 0.05	1.29	< 0.1	0.07	< 0.001	< 0.1	0.0006	1.6	< 1	1.6	< 0.2	< 1	< 1.0
EPA 05	N	10/14/2003	6,890.07	5.72	7.02	5310	523	528	144	11.3	132	3390	75.8	11.6	25.9	< 1	0.4	< 0.001	< 0.01	< 0.005	0.1	< 0.05	1.28	< 0.1	0.08	< 0.001	< 0.1	0.0019	0.8	3.5	4.3	< 0.2	< 1	2.1
EPA 05	N	1/12/2004	6,891.44	5.91	6.37	5310	508	600	156	12.6	120	3450	47.2	11.9 D	26.8 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	0.04	< 0.1	< 0.05	< 0.001	< 0.1	0.0005 D	1.1	< 1.0	1.1	< 0.2	< 1.0	2.4
EPA 05	N	4/13/2004	6,889.95	5.63	5.87	5240	459	546	141	11.6	101	3410	82.4	10.8 D	22.6 D	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.09	< 0.05	1.31	< 0.1	0.09	0.001	< 0.1	0.0016 D	1.5	2.5	4	< 0.2	< 1	1.9
EPA 05	N	7/20/2004	6,889.70	5.87	6.03	5360	505 D	562 D	147	10.4	124	3310 D	66	9.2 D	24.2 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.09	< 0.05	1.2	< 0.1	0.08	0.002	< 0.1	0.0015 D	2	< 1.0	2	< 0.2	< 1.0	1.9
EPA 05	N	10/12/2004	6,889.67	5.89	6.32	5300	483 D	586 D	146	10.8	93	3300 D	71	10.1 D	25.1 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.08	< 0.05	1.23	< 0.1	< 0.05	0.002	< 0.1	0.0015	1.7	1.5	3.2	< 0.2	< 1.0	1.9
EPA 05	N	1/11/2005	6,889.91	5.93	6.41	5220	494 D	563 D	138	10.7	86	3250 D	68	7.8 D	23.0 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.09	< 0.05	1.26	< 0.1	0.09	0.001	< 0.1	0.0016	1.1	1.5	2.6	< 0.2	< 1.0	4.2
EPA 05	N	4/12/2005	no data	no data	6.29	4950	496	566	146	10.7	85	3410	72	8.3	23.6	< 1.0	0.1	< 0.001	< 0.01	< 0.005	0.08	< 0.05	1.31	< 0.1	0.07	< 0.001	< 0.1	0.0013	1.3	1.6	2.9	< 0.2	< 1.0	3.3
EPA 05	N	7/19/2005	6,889.05	5.52	6.51	5200	466 D	541 D	136	10	100	3050 D	58	7.7 D	23.1 D	< 1.0	0.1	< 0.001	< 0.01	< 0.005	0.07	< 0.05	1.14	< 0.1	0.07	< 0.001	< 0.1	0.0015	1	< 1.0	1	< 0.2	< 1.0	1.9
EPA 05	N	10/11/2005	6,889.14	5.87	6.51	5120	466 D	538 D	138	10.6	92	3120 D	66	7.8 D	22.4 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.08	< 0.05	1.23	< 0.1	0.06	< 0.001	< 0.1	0.0014	1.7	1.6	3.3	< 0.2	< 1.0	4
EPA 05	N	1/17/2006	6,888.87	6.02	7.09	4960	474 D	551 D	127	9.8	85	3140 D	65	11.4 D	20.9 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.07	< 0.05	1.26	< 0.1	0.07	< 0.001	< 0.1	0.0015	1.7	1.3	3	< 0.2	< 1.0	< 1.0

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 05	N	4/11/2006	6,888.84	5.83	6.70	4950	494 D	567 D	130	9.8	85	3190 D	65	8.5 D	21.2 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	1.09	< 0.1	0.06	< 0.001	< 0.1	0.0022	1.5	4.2	5.7	< 0.2	< 1.0	1.1
EPA 05	N	7/25/2006	6,889.04	5.84	6.40	4710	490 D	541 D	134	10.1	72	3290 D	62	8.1 D	20.5 D	< 1.0	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	1.03	< 0.1	< 0.05	< 0.001	< 0.1	0.0016	1.2	4	5.2	< 0.2	< 1.0	2
EPA 05	N	10/10/2006	6,888.64	5.95	6.43	4960	471 D	525 D	129	9.8	70	3080 D	55	8.4 D	20.4 D	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	0.06	< 0.05	1.16	< 0.1	0.06	0.001	< 0.1	0.0012	1.2	2.2	3.4	< 0.2	< 1	2.2
EPA 05	N	1/23/2007	6,888.32	6.00	6.33	4910	468 D	533 D	127	10	71	3100 D	60	8.6 D	18.4 D	<0.5	<0.1	<0.001	<0.01	<0.005	0.06	<0.05	1.19	<0.1	0.05	<0.001	<0.1	0.0013 D	1.2	<1	1.2	<0.2	<1	4.1
EPA 05	N	4/16/2007	6,888.47	5.90	6.30	4940	465 D	537 D	115	9.7	73	3280 D	63	7.9 D	16.2 D	<0.5	<0.1	<0.001	<0.01	<0.005	0.06	<0.05	1.2	<0.1	0.05	<0.001	<0.1	0.0014	0.8	<1	0.8	<0.2	<1	1.7
EPA 05	N	7/16/2007	6,888.04	5.99	6.30	4780	600 D	663 D	116	8.4	110	3820 D	51	9.7 D	20.4 D	<0.5	<0.1	0.002	<0.01	<0.005	0.05	<0.05	0.95	<0.1	<0.05	<0.001	<0.1	0.0014	1.5	1.5	3	<0.2	<1	1.2
EPA 05	N	10/2/2007	6,888.03	5.93	6.34	4880	431 D	478 D	119 D	10.2	65	2960 D	69 D	8.2 D	18.4 D	<0.5	<0.1	<0.001	<0.01	<0.005	0.05	<0.05	1.15	<0.1	<0.05	<0.001	<0.1	0.0015	1.3	<1	1.3	<0.2	<1	2.6
EPA 05	N	1/21/2008	6,887.99	5.95	6.65 H	4710	462 D	497 D	97.1	9.9	72	3050 D	59 D	5.2 D	18.9 D	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	0.04	< 0.05	0.98	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	1.8	< 1	1.8	< 0.2	< 1	2.3
EPA 05	N	4/14/2008	6,887.59	5.72	6.16	4620	498	536	118 D	8.9	101	3240 D	48	10.4 D	19.8	< 0.5	< 0.1	0.001	< 0.01	< 0.005	0.04	< 0.05	1.08	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	1.3	2.5	3.8	0.7	-6.3 U	2.9
EPA 05	N	7/14/2008	6,887.49	6.02	6.28	4530	486	514	115 D	8	95	3480 D	48	10.3 D	17.9	< 0.5	< 0.1	< 0.003	< 0.01	< 0.005	0.04	< 0.05	1.15	< 0.1	< 0.05	< 0.001	< 0.1	0.0013 D	1.8	3.4	5.2	0 U	3.3 U	1.3
EPA 05	N	10/13/2008	6,887.34	5.92	6.36	4960 H	470	506	118 D	8	66	3360 D	46	10.2	16.1	< 0.5	< 0.1	< 0.001	< 0.01	< 0.005	0.04	< 0.05	1.09	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	1.5	2.6	4.1	0.2	-2 U	1.9
EPA 05	N	1/19/2009	6,886.99	6	6.46	4990 H	451	485	116	8	84	3170 D	45	8.1 D	12.4	<0.5	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.12	<0.1	<0.05	0.001	<0.1	0.0011	0.5	3	3.5	-0.1 U	0.2 U	2.8
EPA 05	N	4/13/2009	6,887.14	5.78	5.64	4940	463 D	499	118 D	11	49	3250 D	42	7.9 D	16.1 D	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.14	<0.1	<0.05	<0.001	<0.1	0.0013	1.6	2.3	3.9	-0.04 U	1.0 U	1.9
EPA 05	N	7/13/2009	6,886.94	5.84	6.31 H	4740 H	474	495	111	8	67	3520 D	50	6.1 D	15.3	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.24	<0.1	<0.05	0.001	<0.1	0.0015	1.6	2.6	4.2	0.1 U	0.4 U	3.2
EPA 05	N	10/12/2009	6,886.94	5.94	6.54	4850	469	488	115	8	65	3170 D	48	11.0 D	12.4	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.21	<0.1	<0.05	<0.001	<0.1	0.0015	1.7	3.3	5	0.04 U	0.4 U	2.3
EPA 05	N	1/11/2010	6,886.54	6.01	6.31	4810 D	468 D	492	115 D	9	67	3300 D	42	11.1 D	13 D	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.11	<0.1	<0.05	<0.001	<0.1	0.0014	1.7	2.7	4.4	0.04 U	0.2 U	1.6
EPA 05	N	4/12/2010	6,886.69	6.03	6.09	4840 D	467	496	119	8	92	3470 D	46	12.3 D	10.7 D	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.18	<0.1	<0.05	<0.001	<0.1	0.0012	1.8	3.5	5.3	0.01 U	-1 U	2.9
EPA 05	N	7/19/2010	6,886.44	5.85	6.14	4890 D	472	514	112	7	59	3240 D	40 D	10.8 D	10 D	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.17	<0.1	<0.05	<0.001	<0.1	0.0014	1.9	2.4	4.3	0.006 U	-0.3 U	3.6
EPA 05	N	10/11/2010	6,886.59	5.94	7.09	3720 D	465	480	119	8	74	3460 D	37 D	10.5 D	10 D	<0.50	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.15	<0.1	<0.05	<0.001	<0.1	0.0014	2	3.6	5.6	0.08 U	-1 U	2.7
EPA 05	N	1/10/2011	6,886.54	5.94	6.26	4770 D	452	480	106	7	52	3200 D	42 D	8.0 D	9 D	0.62	<0.1	<0.001	<0.01	<0.005	0.04	<0.05	1.24	<0.1	<0.05	<0.001	<0.1	0.0009	1.9	2.9	4.8	0.009 U	1.2 U	4.6
EPA 05	N	4/11/2011	6,886.12	5.94	6.12	4780 D	476	498	122	7	69	3190 D	41 D	6.9 D	9 D	0.53	<0.1	0.003	<0.01	<0.005	0.04	<0.05	1.27	<0.1	<0.05	<0.001	<0.1	0.0009	1.6	3	4.6	0.08 U	1.6	2.3
EPA 05	N	7/18/2011	6,885.99	5.94	7.25	4680 D	469	486	112	7	62	3160 D	40 D	6.7 D	7.2 D	<0.50	0.3	<0.001	<0.01	<0.005	0.03	<0.05	1.2	<0.1	<0.05	<0.001	<0.1	0.0019	1.8	3.6	5.4	0.05 U	-0.3 U	2.2
EPA 05	N	10/10/2011	6,886.12	5.95	6.43	4670 D	476	493	115	7	65	3280 D	40 D	3.8 D	6.9 D	<0.50	<0.1	0.012	<0.01	<0.005	0.03	<0.05	1.19	<0.1	<0.05	<0.001	<0.1	0.0007	2	2.6	4.6	0.07 U	0.4 U	2.1
EPA 05	N	1/9/2012	6,885.84	6.14	5.89 H	4760 D	442	426	98	6	61	3150 D	39 D	4.2 D	1	<0.50	<0.1	<0.001	<0.01	<0.005	0.03	<0.05	1.14	<0.1	0.05	<0.001	<0.1	0.001	1.6	0.97 U	3.54	0.02 U	0.3 U	1.6
EPA 05	N	4/9/2012	6,885.69	5.92	5.91 H	4770 D	451	490	107	6	64	3130 D	38 D	3.9 D	4.0 D	<0.50	<0.1	<0.01	<0.01	<0.005	0.04	<0.05	1.15	<0.1	0.05	<0.001	<0.1	0.0007	1.5	2.5	6.5	0.001 U	0.1 U	2.1
EPA 05	N	7/16/2012	6,885.64	5.96	6.28 H	4920	514	522	117 D	6	69	3230 D	41 D	4.4 D	3.1	<0.50	<0.1	<0.001	<0.001	<0.005	0.03	0.002	0.98	<0.1	<0.05	<0.001	<0.1	0.001	1.4	1.8	5	0.01 U	1 U	1.7
EPA 05	N	10/15/2012	6,885.49	6.11	6.16 H	4790	488	486	112 D	6	66	3130 D	40 D	1.4	2.1 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.04	0.001	0.9	<0.1	0.06	<0.001	<0.1	0.0006	1.1	2.3	3.4	0.04 U	0.7 U	2.2
EPA 05	N	1/15/2013	6,885.49	5.85	5.99 H	4710	471	496	112 D	6	67	3200 D	37 D	1.6 D	1.9 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.05	<0.001	1.13	<0.1	0.06	<0.001	<0.1	0.0005	1.5	2.5	4	0.05 U	0.1 U	1
EPA 05	N	4/8/2013	6,885.78	5.94	6.07 H	4810	470	489	108	7	70	3210 D	36 D	2.63	2.1 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.04	<0.001	0.95	<0.1	0.06	<0.001	<0.1	0.0007	1.4	1.9	3.3	0.1	-0.1 U	1.9
EPA 05	N	7/15/2013	6,885.18	5.96	6.33 H	4800	467	483	106	6	65	3260 D	no data	2.24	2.5 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.05	<0.001	0.87	<0.1	0.06	0.001	<0.1	0.0008	1.1	2.8	3.9	0.03 U	0.01 U	1.2
EPA 05	N	10/7/2013	6,884.96	6.02	6.05 H	4710	462	484	107	6	66	3180 D	40 D	1.79	1.7 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.04	<0.001	0.88	<0.1	0.06	<0.001	<0.1	0.0005	1.7	1.6	3.3	0.08 U	0.4 U	1.1
EPA 05	N	1/13/2014	6,884.87	6.11	6.05	4560	464	481	107	6	57	3190	37	1.55	1.9	<0.50	<0.1	<0.001	<0.001	<0.005	0.05	<0.001	0.96	<0.1	0.1	<0.001	<0.1	0.0004	1.3	2.1	3.4	0.1 U	0.4 U	1.3
EPA 05	N	4/1/2014	6,885.19	6.23	5.92 H	4540	465	490	106 D	6	66	3090 D	42 D	0.1	3.5 D	0.54	<0.1	<0.001	<0.001	<0.005	0.08	<0.001	0.91	<0.1	0.1	<0.001	<0.1	0.0003	1.2	2.7	3.9	0.06 U	0.1 U	2.4
EPA 05	N	7/9/2014	6,884.66	6.03	6.21 H	4640	450	497	110 D	7	50	3130 D	35 D	0.27	2.7 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.07 D	<0.001	0.88	<0.1	0.09	<0.001	<0.1	0.0007	1.2	1.8	3	0.04 U	-0.05 U	1.3
EPA 05	N	10/8/2014	6,884.68	6.11	6.15 H	4660	451	464	99	6	48	3180 D	37 D	<0.05	3.7 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.1	0.002	0.8	<0.1	0.1	<0.001	<0.1	0.0004	1.4	1.6 U	1.4	0.05 U	0.1 U	1.4
EPA 05	N	1/7/2015	6,884.32	6.09	5.86 H	4600	461	475	106	7	53	3240 D	44 D	<0.05	3.6 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.1	<0.001	0.74	<0.1	0.09	<0.001	<0.1	0.0003	1.2	1.7	2.9	0.07 U	0.2 U	1.8
EPA 05	N	4/8/2015	6,884.70	6.05	6.12 H	4680	466	475	105	6	51	3170 D	39 D	1.12	2.6 D	<0.5	<0.1	<0.001	<0.001	<0.005	0.09	<0.001	0.62	<0.1	0.09	<0.001	<0.1	0.0003	1.7	3	4.7	0.03 U	0.3 U	6.6
EPA 05	N	7/8/2015	6,884.35	5.95	6.18 H	4650	439	447	98	7	54	3230 D	39 D	<0.05	4.1 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.06	<0.001	0.52	<0.1	0.06	<0.001	<0.1	0.0005	1.1	1.2	2.3	0.06 U	0.7 U	2.8
EPA 05	N	10/6/2015	6,884.23	6.29	6.13 H	4660	458	479	106	7	59	3180 D	38 D	1.55	3.2 D	<0.50	<0.1	0.001	<0.001	<0.005	0.05	<0.001	0.45	<0.1	0.06	<0.001	<0.1	0.0005	1.6	3.4	5	0.08 U	0.5 U	4.1
EPA 05	N	1/5/2016	6,884.29	6.30	6.08 H	4670	459	492	108	7	65	3170 D	37 D	<0.05	5.7 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.05	0.01	0.46	<0.1	0.06	<0.001	<0.1	0.0006	1.1	2.8	3.9	0.05 U	-0.4 U	4.5
EPA 05	N	4/5/2016	6,883.96	6.18	6.15 H	4680	470	476	104	6	76	3270 D	37 D	3.0 DH	3.7 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.04	<0.001	0.38	<0.1	0.05	<0.001	<0.1	0.0005	1.3	2.7	4	-0.03 U	0.0 U	3.6
EPA 05	N	7/12/2016	6,883.92	6.37	6.38 H	4730	468	485	105	6	71	3410 D	41 D	1.99	6.0 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.03	<0.001	0.26	<0.1	<0.05	<0.001	<0.1	0.0009	1.5	4.2	5.7	0.04 U	0.3 U	4.1
EPA 05	N	10/4/2016	6,884.06	6.56	6.58 H	4690	473	494	104	7	64	3330 D	38 D	2.0 D	7.1 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.02	<0.001	0.24	<0.1	<0.05	<0.001	<0.1	0.0007	1.3	2.7	4	0.05 U	-0.03 U	2.9
EPA 05	N	1/10/2017	6,883.85	6.30	6.26 H	4650 D	486	473	103	7	79	3270 D	40 D	0.9 D	8.9 D	0.53	<0.1	<0.001	<0.001	<0.005	0.03	0.001	0.27	<0.1	<0.05	<0.001	<0.1	0.001	1.4	1.8	3.2	0.3	1.3	5
EPA 05	N	4/4/2017	6,883.75	6.09	6.19 H	4630 D	454	472	104	7	74	3370 D	42 D	1	9.8 D	<0.50	<0.1	<0.001	<0.001	<0.005	0.03	<0.001	0.21	<0.1	<0.05	<0.001	<0.1	0.0007	1.3	4.3	5.6	0.06 U	0.3 U	2.6
EPA 05	N	7/11/2017	6,883.51	6.31	6.23 H	4770 D	435	445	89	7	51	3000 D	36 D	9.4 D	8.35 D	0.59	<0.1	<0.001	<0.001	<0.005	0.03	<0.001	0.2	<0.1	<0.05	0.001	<0.1	0.0017	1.4	0.8 U	1.4	0.07 U	0.1 U	1.8
EPA 05	N	10/3/2017	6,883.46	6.29	6.01 H	4620 D	457	465	105	7	48	3010 D	36 D	8.8 D	8.05 D	0.54	<0.1	<0.001	<0.001	<0.005	0.03	<0.001	0.17	<0.1	<0.05	<0.001	<0.1	0.0019	1.2	4.8	6	0.0007 U	0.5 U	2.1
EPA 05	N	1/9/2018	6,883.21	6.45	6.30 H	4590 D	452	480	106 D	9	57	3260 D	36 D	15.9 D	10.7 D	0.51	<0.03	<0.001	<0.001	<0.001	0.037	<0.001	0.158 D	<0.001	0.038	<0.001	<0.01	0.0011	1.2	3.6	4.8	0.06 U	-1 U	1.8
EPA 05	N	4/3/2018	6,883.29	6.23	6.06 H	4770 D	468	448	103	9	65	3320 D	40 D	13.2 D	12.2 D	<0.50	<0.03	<0.001	<0.001	<0.001	0.034	<0.001	0.162	<0.001	0.037	<0.001	<0.01	0.0003	1.3	1.6	2.9	0.2 U	1.1	3.4
EPA 05	N	7/10/2018	6,883.02	6.31	6.13 H	4750 D	442	409	98	10	36	3110 D	40 D	18 D	10.2 D	0.54	<0.03	<0.001	<0.001	<0.001	0.038	<0.001	0.173	<0.001	0.035	<0.001	<0.01	0.0017	1.4	6.4	7.8	0.009 U	0.8 U	2.8
EPA 05	N	10/2/2018	6,883.06	6.23	6.10 H	4700 D	479	470	108 D	11	46	3230 D	38 D	10 D	19.5 D	0.65	0.04	<0.001	<0.001	<0.001	0.045	<0.001	0.178	<0.001	0.036	<0.001	<0.01	0.0015	1.8	3.2	5	0.1 U	0.06 U	2.1
EPA 05	N	1/8/2019	6,882.76	6.01	5.95 H	4640 D	489	482	113 D	11	40	3210 D	39 D	18.4 D	12.3 D	<0.50 J	0.1	no data	<0.001	<0.001	0.044	0.006	0.2	<0.001	0.045	no data	<0.01	0.0023	1.7	3	4.7	0.04 U	0.6 U	3.3
EPA 05	N	4/9/2019	6,883.06	6.34	6.32 H	4660 D	451	457	102	9	61	3230 D	38 D	16 D	15 D	0.83	0.11	<0.001	<0.001	<0.001	0.044	0.018	0.207	<0.001	0.042	0.001	<0.01	0.0026	1.5	2.9	4.4	0.07 U	0.3 U	2.1
EPA 05	N	8/1/2019	6,882.62	6.36	6.44 H	4610	465	464	102	11	96	3120	36	24	10.9	<0.50	0.1	<0.001	<0.001	<0.001	0.038	<0.001	0.202	<0.001	0.034	0.001	<0.01	0.0037	1.7	2.1	3.8	0.04	-0.1 U	2
EPA 05	N	10/8/2019	6,882.74	6.27	6.13 H	4580 DH	477	460	108	11	43	3150 D	38	17 D	20 D	<0.50	0.018	0.001	<0.001	<0.001	0.043	<0.001	0.228 DL	<0.001	0.035	<0.001	<0.01	0.0026	1.8	-.05 U	1.3	-0.02 U	0.08	2.3
EPA 07	N	7/26/1989	6,907.80	4.40	4.01	7774	526	871	212	9.1	0	5092	134	3.45	94	< 1	94	< 0.001	< 0.05	< 0.01	0.25	< 0.05	24	< 0.1	0.27	< 0.001	< 0.1	0.008	4.8	1.3	6.1	6	< 1	9
EPA 07	N	10/5/1989	6,908.00	4.20	4.26	8076	497	877	221	12	0	5272	192	3.41	69	< 1	99	< 0.001	< 0.05	< 0.01	0.26	0.09	25	< 0.01	0.29	0.002	< 0.1	0.012	2	3.3	5.3	0.8	< 1	2.5
EPA 07	N	1/16/1990	6,908.00	4.20	4.22	8190	449	915	226	9.09	< 1	5108	174	3.46	88	< 1	96	< 0.001	< 0.05	< 0.01	0.34	< 0.05	27	< 0.1	0.35	0.002	< 0.1	0.008	1.5	5.4	6.9	< 0.2	< 1	1.5
EPA 07	N	4/17/1990	6,907.70	4.20	4.30	9172	453	1100	226	8.7	< 1	5392	182	3.95	96	< 1	100	< 0.001	< 0.05	< 0.01	0.36	< 0.05	42	< 0.1	0.44	< 0.001	< 0.1	0.006	2.7	5.8	8.5	< 0.2	< 1	2.8
EPA 07	N	7/17/1990	6,907.10	4.40	4.35	9566	496	1009	230	10	0.1	5739	176	1.9	84	< 1	80.1	< 0.001	< 0.05	< 0.01	0.3	< 0.05	42.3	< 0.1	0.45	< 0.001	< 0.1	0.0155	0.6	5.2	5.8	< 0.2	< 1	< 1

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 07	N	10/9/1990	no data	4.40	4.63	8003	449	928	241	10.5	10	5204	169	1.17	36.2	< 1	39.1	< 0.001	< 0.05	0.01	0.46	< 0.05	26.9	< 0.1	0.48	< 0.001	< 0.1	0.0052	3.3	4	7.3	< 0.2	< 1	4
EPA 07	N	1/3/1991	no data	4.60	4.68	7145	475	829	262	24.4	6.1	4572	117	1.67	29.3	< 1	18	< 0.001	< 0.01	< 0.01	0.25	< 0.05	17.6	< 0.1	0.3	0.001	< 0.1	0.0081	7.7	8.6	16.3	< 0.2	< 1	8
EPA 07	N	4/17/1991	no data	5.00	5.37	6918	454	757	252	12.4	15	4676	117	1.3	40.5	< 1	6.15	< 0.001	< 0.01	< 0.01	0.12	< 0.05	13.28	< 0.1	0.18	< 0.001	< 0.1	0.002	2.6	10.4	13	< 0.2	1.7	2
EPA 07	N	7/11/1991	no data	5.00	5.80	6957	386	759	230	10.1	39	4506	99.7	1.01	28.1	< 1	0.18	< 0.001	< 0.01	< 0.01	0.12	< 0.05	12.51	< 0.1	0.16	0.017	< 0.1	0.0038	3.2	8.9	12.1	< 0.2	< 1	3
EPA 07	N	9/4/1991	no data	no data	5.58	7322	439	672	245	22.5	37	4415	107	1.2	17	< 1	1.21	< 0.001	< 0.01	< 0.01	0.15	< 0.05	12.1	< 0.1	0.17	< 0.001	< 0.1	0.0015	2	3.7	5.7	< 0.2	< 1	2
EPA 07	N	10/17/1991	no data	5.20	5.69	6827	473	712	257	12.6	39.3	4296	111	1.25	25	< 1	1.15	0.001	< 0.01	< 0.01	0.15	< 0.05	13.51	< 0.1	0.16	0.001	< 0.1	0.0009	2.1	7.2	9.3	< 0.2	< 1	2
EPA 07	N	11/4/1991	no data	no data	5.65	6986	445	610	238	10	38.8	4271	116	1.2	23.6	< 1	1.93	< 0.001	< 0.01	< 0.01	0.15	< 0.05	15.6	< 0.1	0.21	< 0.001	< 0.1	0.0059	2.1	8.8	10.9	< 0.2	< 1	2
EPA 07	N	12/2/1991	no data	no data	5.84	6860	439	608	246	10.4	55.6	3834	114	1.31	54.7	< 1	2.29	< 0.001	< 0.01	< 0.01	0.12	< 0.05	13.2	< 0.1	0.19	< 0.001	< 0.1	0.002	3.5	13.1	16.6	< 0.2	< 1	4
EPA 07	N	1/16/1992	no data	5.10	6.31	6893	397	769	235	10	43.8	4409	113	1.5	29.8	< 1	1.91	< 0.001	< 0.01	< 0.01	0.13	< 0.05	13.6	< 0.1	0.19	0.018	< 0.1	0.005	2.6	6.6	9.2	< 0.2	< 1	3
EPA 07	N	4/13/1992	no data	5.20	6.25	6768	409	568	263	11.6	68.6	4167	116	1.1	25.1	< 1	0.6	< 0.001	< 0.01	< 0.01	0.13	< 0.05	13.3	< 0.1	0.16	0.014	< 0.1	0.001	2.4	7.4	9.8	< 0.2	< 1	2.4
EPA 07	N	7/15/1992	no data	5.50	6.37	6446	390	628	287	11.4	95	4088	94.4	0.6	30.6	< 1	0.72	< 0.001	< 0.01	< 0.01	0.1	< 0.05	10.5	< 0.1	0.13	< 0.001	< 0.1	0.003	2.6	12.2	14.8	< 0.2	< 1	3
EPA 07	N	10/7/1992	no data	5.60	6.14	6406	449	654	333	15.2	112	4150	90.8	0.85	15.3	< 1	0.8	< 0.001	< 0.01	< 0.01	0.1	< 0.05	11	< 0.1	0.15	< 0.001	< 0.1	< 0.0003	2.2	7.9	10.1	< 0.2	< 1	2.6
EPA 07	N	1/7/1993	no data	5.60	6.79	5654	469	640	281	11.8	134	3675	98.4	0.92	45.6	< 1	0.6	< 0.001	< 0.01	< 0.01	0.12	< 0.05	11.3	< 0.1	0.21	< 0.01	< 0.1	0.007	2	7.2	9.2	< 0.2	< 1	2.1
EPA 07	N	4/7/1993	no data	5.60	6.32	5787	409	639	293	9.2	108	4101	115	0.78	35.9	< 1	1.4	0.001	< 0.01	< 0.01	0.17	< 0.05	11.6	< 0.1	0.17	< 0.001	< 0.1	< 0.0003	1.3	9	10.3	< 0.2	1.3	1.5
EPA 07	N	7/14/1993	no data	5.70	6.08	6729	495	696	270	9.7	144	4208	65.9	0.84	27.8	< 1	0.53	< 0.001	< 0.01	< 0.01	0.13	< 0.05	10.2	< 0.1	0.19	0.002	< 0.1	< 0.0003	2.1	5.9	8	< 0.2	< 1	2.8
EPA 07	N	10/7/1993	no data	5.60	6.07	5989	460	678	250	9.6	142	4049	106	0.75	41.4	< 1	0.62	< 0.001	< 0.01	< 0.01	0.12	< 0.05	7.99	< 0.1	0.21	< 0.001	< 0.1	0.006	1.5	7.7	9.2	< 0.2	1.8	13
EPA 07	N	1/6/1994	no data	5.70	6.27	6870	454	646	277	9.2	135	4312	126	0.87	39.6	< 1	0.84	< 0.001	< 0.01	< 0.01	0.13	< 0.05	9.79	< 0.1	0.22	< 0.001	< 0.1	< 0.0003	3.1	< 1	3.1	< 0.2	1.7	4.1
EPA 07	N	4/12/1994	no data	5.80	6.33	6573	443	669	257	9.5	140	4378	121	1.88	35.7	< 1	0.63	< 0.001	< 0.01	< 0.01	0.12	< 0.05	9.59	< 0.1	0.21	< 0.001	< 0.1	0.001	2.8	3.5	6.3	< 0.2	< 1	8.2
EPA 07	N	7/26/1994	no data	5.90	6.87	6463	511	689	289	10.1	139	4144	120	0.88	37.4	< 1	0.59	< 0.001	< 0.01	< 0.01	0.16	< 0.05	9.72	< 0.1	0.21	0.003	< 0.1	0.002	2.2	1.5	3.7	< 0.2	< 1	4.6
EPA 07	N	10/4/1994	no data	5.80	7.16	7011	559	822	299	10.3	160	4647	141	2.94	46.2	< 1	0.74	< 0.001	< 0.01	< 0.01	0.1	< 0.05	8.52	< 0.1	0.15	< 0.001	< 0.1	0.003	3.1	4.5	7.6	< 0.2	< 1	9.8
EPA 07	N	1/11/1995	6,903.70	5.80	6.45	8136	540	900	353	9.4	326	4737	215	1.37	131	1.04	0.5	< 0.001	< 0.01	< 0.01	0.06	< 0.05	4.44	< 0.1	0.1	< 0.001	< 0.1	0.001	1.6	6.2	7.8	< 0.2	4.8	11.1
EPA 07	N	4/11/1995	6,904.40	5.90	6.35	7549	510	798	370	7.2	397	4566	244	1.27	139	1.08	0.41	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.81	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.9	4.7	6.6	< 0.2	< 1	9
EPA 07	N	7/11/1995	6,903.90	6.00	6.96	7971	475	931	346	6.9	426	4475	235	1.25	145	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	4.02	< 0.1	< 0.05	< 0.001	< 0.1	0.002	3	< 1	3	0.5	14.9	16.3
EPA 07	N	10/10/1995	6,904.10	6.00	7.50	7558	507	916	371	7.7	403	4368	200	1.12	137	< 1	0.22	0.002	< 0.01	< 0.01	0.04	< 0.05	4.84	< 0.1	< 0.05	0.04	< 0.1	0.0023	2.3	6.7	9	< 0.2	< 1	5.4
EPA 07	N	1/9/1996	6,903.90	6.10	7.36	7349	474	894	352	7.6	438	4400	200	1.03	141	1.05	0.17	0.003	< 0.01	< 0.01	0.04	< 0.05	5.35	< 0.1	< 0.05	0.067	< 0.1	0.0038	3.4	1.3	4.7	< 0.2	< 1	2.4
EPA 07	N	4/10/1996	6,903.80	6.30	7.26	8204	552	1040	349	7.4	428	5070	214	1.07	147	< 1	0.22	< 0.001	< 0.01	< 0.01	0.06	< 0.05	6.6	< 0.1	< 0.05	< 0.001	< 0.1	0.0024	0.9	2.4	3.3	0.8	< 1	3.1
EPA 07	N	7/17/1996	6,903.60	6.20	6.36	8403	483	923	344	7.9	392	4529	222	0.72	156	1.56	0.25	< 0.001	< 0.01	< 0.01	0.08	< 0.05	9.71	< 0.1	0.08	< 0.001	< 0.1	0.0032	1.2	< 1	1.2	< 0.2	< 1	4.3
EPA 07	N	10/8/1996	6,903.40	6.10	6.97	8440	534	1018	346	7.9	400	4920	206	1.2	142	5.02	0.27	< 0.001	< 0.01	< 0.01	0.08	< 0.05	10.5	< 0.1	0.09	< 0.001	< 0.1	0.0003	1.3	< 1	1.3	< 0.2	< 1	< 1
EPA 07	N	1/28/1997	6,903.30	6.20	7.61	8280	485	1041	308	7.6	389	4555	239	1.21	137	1.23	0.27	< 0.001	< 0.01	< 0.01	0.07	< 0.05	11.2	< 0.1	0.09	< 0.001	< 0.1	0.0003	2.3	< 1	2.3	< 0.2	7.9	2
EPA 07	N	4/15/1997	6,903.10	6.10	7.26	8440	504	999	338	8.3	386	4820	215	1.27	132	< 1	0.38	< 0.001	< 0.01	< 0.01	0.09	< 0.05	12.4	< 0.1	0.12	0.06	< 0.1	0.001	1	1.8	2.8	< 0.2	< 1	< 1
EPA 07	N	7/15/1997	6,902.80	5.90	7.15	8390	437	984	318	8.2	372	4780	209	1.28	137	1.2	0.19	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	12.5	< 0.1	0.11	< 0.001	< 0.1	0.001	1.1	3.4	4.5	< 0.2	< 1	< 1
EPA 07	N	10/15/1997	6,902.50	5.90	7.64	8410	528	1000	314	7.5	349	5010	238	1.49	130	< 1	0.25	< 0.001	< 0.01	< 0.01	0.13	< 0.05	15.2	< 0.1	0.13	< 0.001	< 0.1	0.002	< 0.2	< 1	0	< 0.2	< 1	< 1
EPA 07	N	1/20/1998	6,903.90	5.90	7.48	8340	534	947	335	9.6	340	5100	217	1.89	139	1.1	0.8	< 0.001	< 0.01	< 0.005	0.14	< 0.05	17.6	< 0.1	0.16	< 0.001	< 0.1	0.0021	1	< 1	1	< 0.2	< 1	< 1
EPA 07	N	4/14/1998	6,902.60	6.00	6.75	8310	514	969	337	8	333	4870	184	1.32	138	1.2	0.48	< 0.001	< 0.01	< 0.005	0.1	< 0.05	12.5	< 0.1	0.1	< 0.001	< 0.1	0.002	1.5	< 1	1.5	< 0.2	< 1	< 1
EPA 07	N	7/14/1998	6,902.20	6.10	7.30	8460	486	942	322	8.3	342	4300	186	1.37	133	1.2	0.18	< 0.001	< 0.01	< 0.005	0.1	< 0.05	15.1	< 0.1	0.12	< 0.001	< 0.1	0.0023	1.1	2.1	3.2	< 0.2	< 1	< 1
EPA 07	N	10/13/1998	no data	6.10	8.09	8150	481	951	327	8.4	325	4730	183	1.58	139	1.3	0.24	< 0.001	< 0.01	< 0.005	0.1	< 0.05	13.4	< 0.1	0.14	< 0.001	< 0.1	0.0019	1.7	1.8	3.5	< 0.2	4.9	4.9
EPA 07	N	1/12/1999	6,903.00	6.00	7.70	8180	424	900	294	8.6	345	4750	189	1.31	137	< 1	0.13	< 0.001	< 0.01	0.007	0.09	< 0.05	12.6	< 0.1	0.08	< 0.001	< 0.1	0.011	3.2	3.7	6.9	< 0.2	< 1	< 1
EPA 07	N	4/13/1999	6,903.00	6.00	7.26	8020	468	926	308	7.9	355	4320	186	1.31	140	< 1	0.29	< 0.001	< 0.01	< 0.005	0.09	< 0.05	12.5	< 0.1	0.11	< 0.001	< 0.1	0.0017	1.2	2.1	3.3	< 0.2	3.8	3.8
EPA 07	N	7/20/1999	6,903.06	6.06	7.20	8120	491	880	307	9.5	361	4500	166	1.11	130	< 1	< 0.1	< 0.001	< 0.01	< 0.005	0.1	< 0.05	9.3	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	3	< 1	3	< 0.2	5.2	5.2
EPA 07	N	10/12/1999	6,903.20	6.01	7.50	7940	476	903	300	8.4	366	4370	187	1.15	134	1.4	0.18	< 0.001	< 0.01	< 0.005	0.07	< 0.05	11.8	< 0.1	0.08	< 0.001	< 0.1	0.0009	< 0.2	3.3	3.3	< 0.2	< 1	1.1
EPA 07	N	1/11/2000	6,902.80	6.10	7.73	7890	439	846	284	8.9	367	4000	171	0.9	122	1.3	0.29	< 0.001	< 0.01	< 0.005	0.08	< 0.05	9.94	< 0.1	0.13	< 0.001	< 0.1	0.0021	1.2	< 1	1.2	< 0.2	< 1	2.3
EPA 07	N	5/3/2000	6,902.50	5.90	7.28	7750	430	827	306	10.6	362	3870	168	0.99	138	1.2	2.9	< 0.001	< 0.01	< 0.005	0.08	< 0.05	11.4	< 0.1	0.1	< 0.001	< 0.1	0.0032	1.5	1.6	3.1	< 0.2	< 1	2.6
EPA 07	N	7/11/2000	6,902.20	5.80	7.28	7630	488	897	321	7.54	399	4160	167	0.75	150	1.9	3.57	< 0.001	< 0.01	< 0.005	0.07	< 0.05	9.69	< 0.1	< 0.05	< 0.001	< 0.1	0.0026	1.4	3.4	4.8	< 0.2	< 1	2.8
EPA 07	N	10/3/2000	6,902.30	5.88	6.66	7540	474	889	309	8.7	444	3970	169	0.55	135	1.1	4.37	< 0.001	< 0.01	< 0.005	0.06	< 0.05	8.27	< 0.1	< 0.05	< 0.001	< 0.1	0.0024	0.8	1.8	2.6	< 0.2	< 1	1.9
EPA 07	N	1/9/2001	6,902.40	6.06	6.83	7580	468	845	277	7.7	453	4040	180	0.72	124	< 1	4.61	< 0.001	< 0.01	< 0.005	0.06	< 0.05	7.44	< 0.1	0.09	< 0.001	< 0.1	0.0021	0.9	2.9	3.8	< 0.2	< 1	< 1
EPA 07	N	4/3/2001	6,902.05	6.10	7.14	7590	551	964	294	7.1	456	4410	177	0.71	133	2.3	2.81	< 0.001	< 0.01	< 0.005	0.06	< 0.05	6.63	< 0.1	0.09	< 0.001	< 0.1	0.002	1.1	< 1	1.1	< 0.2	< 1	1.7
EPA 07	N	7/17/2001	6,901.70	6.33	6.68	7670	451	838	284	8.3	498	3660	233	0.64	130	1.8	2.6	< 0.001	< 0.01	< 0.005	0.05	< 0.05	6.92	< 0.1	0.07	< 0.001	< 0.1	0.002	1.4	< 1	1.4	< 0.2	< 1	< 1
EPA 07	N	10/9/2001	6,901.75	5.90	6.60	7670	450	820	285	8.7	515	3800	216	0.56	132	< 1	1.77	< 0.001	< 0.01	< 0.005	0.03	< 0.05	5.43	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	1	< 1	1	< 0.2	< 1	< 1
EPA 07	N	1/14/2002	6,901.75	6.09	6.60	7670	541	923	275	9.3	526	4050	217	0.49	121	1.7	2.3	< 0.001	< 0.01	< 0.005	0.05	< 0.05	6.51	< 0.1	0.08	< 0.001	< 0.1	0.0022	1.1	4.4	5.5	< 0.2	< 1	1.3
EPA 07	N	4/9/2002	6,901.36	6.01	6.85	7720	465	821	304	7.8	537	3950	192	0.6	124	< 1	1.5	< 0.001	< 0.01	< 0.005	0.05	< 0.05	6.09	< 0.1	0.08	< 0.001	< 0.1	0.002	0.5	< 1	0.5	< 0.2	< 1	1.7
EPA 07	N	7/16/2002	6,901.25	6.22	7.17	7720	465	841	303	9.6	542	3950	208	0.7	131	< 1	1.3	< 0.001	< 0.01	< 0.005	0.04	< 0.05	5.32	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1	< 1	1	< 0.2	< 1	2.7
EPA 07	N	10/15/2002	6,901.17	6.67	7.13	6430	531	932	316	7.9	544	4420	180	0.64	141	< 1	1.7	< 0.001	< 0.01	< 0.005	0.04	< 0.05	5.66	< 0.1	0.07	< 0.001	< 0.1	0.0024	0.9	< 1	0.9	< 0.2	< 1	1.3
EPA 07	N	1/14/2003	6,901.09	7.23	7.03	7630	435	792	404	12.3	545	3620	170	0.99	128	< 1	1.6	< 0.001	< 0.01	< 0.005	0.04	< 0.05	4.94	< 0.1	0.06	< 0.001	< 0.1	0.0025	0.8	< 1	0.8	< 0.2	< 1	2.5
EPA 07	N	4/14/2003	6,900.86	6.19	6.76	7520	476	892	325	12.5	542	4110	196	0.68	132	< 1	1.7	< 0.001	< 0.01	< 0.005	0.04	< 0.05	4.94	< 0.1	< 0.05	< 0.001	< 0.1	0.0022	1.3	< 1	1.3	< 0.2	< 1	2.8
EPA 07	N	7/9/2003	6,900.68	6.61	7.09	6030	491	863	294	9.2	547	4150	178	0.74	125	1.3	0.9	< 0.001	< 0.01	< 0.005	0.04	< 0.05	4.64	< 0.1	< 0.05	< 0.001	< 0.1	0.0013	0.9	< 1	0.9	< 0.2	< 1	< 1.0
EPA 07	N	10/14/2003	6,900.61	5.87	6.90	7660	548	933	314	7.8	551	4270	196	0.52	131	1.3	0.8	< 0.001	< 0.01	< 0.005	0.03	< 0.05	4.62	< 0.1	< 0.05	< 0.001	< 0.1	0.0023	< 0.2	< 1	0	< 0.2	< 1	< 1.0
EPA 07	N	1/12/2004	6,900.43	6.01	7.37	7710	535	952	325	8.8	532	4370	202	0.57	129 D	< 1.0	0.9	< 0.001	< 0.01	< 0.005	0.03	< 0.05	4.57	< 0.1	< 0.05	< 0.001	< 0.1	0.0022 D	0.4	< 1.0	0.4	< 0.2	< 1.0	< 1.0
EPA 07	N	4/13/2004	6,900.39	5.76	6.21	7670	486	862	312	8.6	550	4270	223	0.64	126 D	< 1	0.8	< 0.001	< 0.01	< 0.005	0.03	< 0.05	3.94	< 0.1	< 0.05	< 0.001	< 0.1	0.0021 D	0.4	4.8	5.2	< 0.2	< 1	1.8
EPA 07	N	7/20/2004	6,900.08	6.01	6.18	7880	526 D	880 D	338	7.5	539	4140 D	190	0.57	122 D	< 1.0	0.6	< 0.001	< 0.01	< 0.005	0.03	< 0.05	3.74	< 0.1	< 0.05	0.004	< 0.1	0.0018 D	0.9	3.5	4.4	< 0.2	< 1.0	1.5
EPA 07	N	10/12/2004	6,900.09	6.03	6.56	8030	486 D	890 D	301	7.6	529	4020 D	195	0.48	139 D	< 1.0	0.6	< 0.001	< 0.01	< 0.005	0.03	< 0.05	3.43	< 0.1	< 0.05	0.002	< 0.1	0.0022 D	0.8	1.7	2.5	< 0.2	< 1.0	1.5

TABLE C.1

Zone 1 Data Summary, 1989-2019

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 07	N	1/11/2005	6,900.32	5.99	6.57	7800	527 D	920 D	324	8	545	4260 D	197	0.32	110 D	< 1.0	0.5	< 0.001	< 0.01	< 0.005	0.03	< 0.05	3.44	< 0.1	0.05	0.001	< 0.1	0.0021 D	0.7	< 1.0	0.7	< 0.2	< 1.0	1.7
EPA 07	N	4/12/2005	6,899.87	6.02	6.46	7650	520	906	344	7.8	530	4320	206	0.36	119	< 1.0	0.4	< 0.001	< 0.01	< 0.005	0.03	< 0.05	3.17	< 0.1	< 0.05	< 0.001	< 0.1	0.0023	0.5	< 1.0	0.5	< 0.2	< 1.0	1.8
EPA 07	N	7/19/2005	6,899.62	5.68	6.76	7920	497 D	884 D	332	7.4	542	3960 D	184	0.41	122 D	< 1.0	0.3	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.71	< 0.1	< 0.05	< 0.001	< 0.1	0.0022	0.7	1.8	2.5	< 0.2	< 1.0	2.5
EPA 07	N	10/11/2005	6,899.66	6.03	6.78	7790	494 D	896 D	333	8	564	4100 D	203	0.54	125 D	< 1.0	0.3	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.8	< 0.1	< 0.05	< 0.001	< 0.1	0.0018 D	1.1	1.4	2.5	< 0.2	< 1.0	2.8
EPA 07	N	1/17/2006	6,899.29	6.15	6.98	7580	497 D	916 D	311	7.9	561	4080 D	196	0.44	141 D	< 1.0	0.3	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.59	< 0.1	< 0.05	< 0.001	< 0.1	0.0023	0.8	< 1.0	0.8	< 0.2	< 1.0	< 1.0
EPA 07	N	4/11/2006	6,899.29	6.03	6.75	7730	508 D	881 D	332	7.7	580	4150 D	212	0.3	138 D	< 1.0	0.2	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.21	< 0.1	< 0.05	0.009	< 0.1	0.0029	0.5	3.7	4.2	< 0.2	< 1.0	< 1.0
EPA 07	N	7/25/2006	6,899.12	5.96	6.62	7480	513 D	914 D	361	8.5	564	4340 D	213	0.37	138 D	< 1.0	0.3	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.96	< 0.1	< 0.05	< 0.001	< 0.1	0.0014	1	3.7	4.7	< 0.2	< 1.0	< 1.0
EPA 07	N	10/10/2006	6,899.06	6.05	6.44	7550	505 D	917 D	345	8.4	588	4090 D	188	0.39	134 D	< 0.5	0.2	< 0.001	< 0.01	< 0.005	0.02	< 0.05	2.4	< 0.1	< 0.05	< 0.001	< 0.1	0.0016 D	1.2	1.4	2.6	< 0.2	< 1	1.7
EPA 07	N	1/23/2007	6,898.84	6.13	6.46	7460	490 D	916 D	344	9.2	561	4180 D	200	0.25	138 D	<0.5	0.3	<0.001	<0.01	<0.005	0.02	<0.05	2.53	<0.1	<0.05	<0.001	<0.1	0.0015 D	0.6	<1	0.6	<0.2	<1	2.1
EPA 07	N	4/16/2007	6,898.96	6.03	6.60	7860	502 D	961 D	317	9.2	583	4580 D	212	0.22	125 D	<0.5	<0.1	<0.001	<0.01	<0.005	0.02	<0.05	2.53	<0.1	<0.05	<0.001	<0.1	0.0022 D	<0.2	<1	0	<0.2	<1	<1
EPA 07	N	7/16/2007	6,898.16	5.94	6.42	7680	511 D	938 D	336	7.8	590	4360 D	195	0.37	146 D	<0.5	0.2	0.003	<0.01	<0.005	0.02	<0.05	1.84	<0.1	<0.05	<0.001	<0.1	0.0019	<0.2	1.9	1.9	<0.2	<1	<1
EPA 07	N	10/8/2007	6,898.26	6.19	6.70	7820	489 D	898 D	334	7.8	598	4130 D	200	0.15	127 D	<0.5	0.5	<0.001	<0.01	<0.005	0.02	<0.05	1.96	<0.1	<0.05	<0.001	<0.1	0.0019	<0.2	<1	0	<0.2	<1	1.6
EPA 07	N	1/21/2008	6,898.51	6.15	6.53	7690	500 D	915 D	368	9.2	608	4190 D	221 D	0.19	127 D	0.6	1.3	< 0.001	< 0.01	< 0.005	0.02	< 0.05	1.74	< 0.1	< 0.05	< 0.001	< 0.1	0.0022	1.3	< 1	1.3	< 0.2	< 1	1.6
EPA 07	N	4/14/2008	6,898.01	5.81	6.43	7280	520 D	987 D	364 D	7.8	596	4760 D	208	0.08	200 D	0.76	0.4	0.001	< 0.01	< 0.005	0.02	< 0.05	1.8	< 0.1	< 0.05	< 0.001	0.2	0.0017	0.4	1 U	1.4	0.6	-6.7 U	1.9
EPA 07	N	7/14/2008	6,897.96	6.13	6.37	7830	466	885	343 D	8	619	4700 D	222	< 0.05	193 D	0.57	0.5	< 0.003	< 0.01	< 0.005	0.02	< 0.05	1.78	< 0.1	< 0.05	< 0.001	< 0.1	0.0017 D	0.57	1.7	2.27	0.3	5 U	0.7 U
EPA 07	N	10/13/2008	6,897.84	6.08	6.24	8010 H	543	1050	393 D	8	611	4800 D	201	0.2	174 D	0.6	0.3	< 0.001	< 0.01	< 0.005	0.02	< 0.05	1.53	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.22	0.66 U	0.88	-0.2 U	-2 U	1.5
EPA 07	N	1/19/2009	6,897.56	5.95	6.75	8360 H	479	952	360	8	607	4710 D	202	<0.05	164 D	0.82	0.2	<0.001	<0.01	<0.005	0.03	<0.05	1.85	<0.1	<0.05	<0.001	<0.1	0.0018 D	1.3	1.1 U	2.4	0.5	-2 U	1.1
EPA 07	N	4/13/2009	6,897.56	5.96	6.22	8060	487 D	971	384 D	10	632	4740 D	208	0.15	123 D	0.64	0.2	<0.001	<0.01	<0.005	0.03	<0.05	1.77	<0.1	<0.05	<0.001	<0.1	0.0019	0.63	0.11 U	0.74	0.03 U	-0.3 U	1.2
EPA 07	N	7/13/2009	6,897.46	5.83	6.68 H	8380 H	506 D	1020	368 D	8	621	4980 D	124	0.18	122 D	<0.50	0.2	<0.001	<0.01	<0.005	0.03	<0.05	2.16	<0.1	<0.05	0.001	<0.1	0.002	0.7	2	2.7	-0.01 U	0.5 U	1.2
EPA 07	N	10/12/2009	6,897.51	6	6.77	8750 H	486 D	1050	366 D	8	647	4300 D	208	0.14	127 D	0.65	0.4	<0.001	<0.01	<0.005	0.03	<0.05	2.22	<0.1	<0.05	<0.001	<0.1	0.002	0.44	5	5.44	0.05 U	-0.9 U	1.1
EPA 07	N	1/11/2010	6,897.11	5.95	6.43	8230 D	517 D	1100	396 D	9	651	4980 D	210	<0.05	130 D	<0.50	0.4	<0.001	<0.01	<0.005	0.03	<0.05	2.37	<0.1	<0.05	<0.001	<0.1	0.0019	0.39	1.7	2.09	-0.02 U	0.9 U	2.4
EPA 07	N	4/12/2010	6,897.11	6.07	6.35	8520 D	496 D	1070	372 D	9	680	5260 D	213	0.15	123 D	<0.50	0.3	<0.001	<0.01	<0.005	0.03	<0.05	2.58	<0.1	<0.05	<0.001	<0.1	0.0022	0.59	1.5	2.09	0.02 U	0.8 U	1.1
EPA 07	N	7/19/2010	6,897.01	5.88	6.55	8780 D	499 D	1110	365 D	8	663	5050 D	208 D	0.45	118 D	0.62	0.6	<0.001	<0.01	<0.005	0.03	<0.05	3.02	<0.1	<0.05	<0.001	<0.1	0.0018	0.49	0.89 U	1.38	-0.03 U	-0.4 U	1.8
EPA 07	N	10/11/2010	6,897.16	6	7.53	7610 D	509 D	1040	396 D	9	665	5220 D	197 D	0.19	115 D	0.76	0.4	<0.001	<0.01	<0.005	0.03	<0.05	2.82	<0.1	<0.05	<0.001	<0.1	0.0023	0.78	1.2	1.98	0.03 U	0.2 U	0.9
EPA 07	N	1/10/2011	6,897.12	6.09	7.6	8260 D	489 D	1020	370 D	9	624	4860 D	214 D	0.25	107 D	0.65	0.3	<0.001	<0.01	<0.005	0.03	<0.05	2.83	<0.1	<0.05	<0.001	<0.1	0.0017	0.63	1.8	2.43	0.07 U	0.6 U	2.2
EPA 07	N	7/18/2011	6,896.71	6.07	6.51	8340 D	499	1030	399 D	9	623	4900 D	215 D	0.2	129 D	0.61	0.2	<0.001	<0.01	<0.005	0.03	<0.05	2.77	<0.1	<0.05	<0.001	<0.1	0.0018	0.36	1.7	2.06	0.02 U	0.7 U	0.7
EPA 07	N	10/10/2011	6,896.51	6.07	7.52	8290 D	494	981	390 D	8	631	4690 D	213 D	0.3 D	128 D	<0.50	0.1	<0.001	<0.01	<0.005	0.03	<0.05	2.78	<0.1	<0.05	<0.001	<0.1	0.0016	0.31	1.1 U	1.41	0.06 U	-0.3 U	0.6
EPA 07	N	1/9/2012	6,896.66	6.01	7.49	7990 D	513	1000	382 D	9	589	4710 D	218 D	<0.2	129 D	<0.50	0.2	<0.001	<0.01	<0.005	0.03	<0.05	2.66	<0.1	<0.05	<0.001	<0.1	0.0019	0.42	1.3	1.72	0.04 U	0.9 U	0.7 U
EPA 07	N	4/9/2012	6,896.41	6.16	6.27 H	8010 D	490	874	343	7	584	4610 D	218 D	0.14	126 D	<0.50	0.2	<0.001	<0.01	<0.005	0.03	<0.05	2.38	<0.1	<0.05	<0.001	<0.1	0.0018	0.53	1.4	3.33	0.009 U	0.3 U	0.3 U
EPA 07	N	7/16/2012	6,896.26	6.07	6.22 H	8210 D	453	939	361	8	630	4440 D	218 D	0.15	133 D	0.64	0.2	<0.01	<0.01	<0.005	0.03	<0.05	2.56	<0.1	<0.05	<0.001	<0.1	0.0021	0.55	0.52 U	1.59	<0.01 U	0.08 U	0.4 U
EPA 07	N	10/15/2012	6,896.16	5.99	6.42 H	8270	528	1040	431	9	645	4520 D	231 D	0.2	139 D	<0.50	0.1	<0.001	<0.001	<0.005	0.03	<0.001	2.24	<0.1	<0.05	<0.001	<0.1	0.0018	0.67	0.67 U	2.01	0.04 U	0.2 U	0.7
EPA 07	N	1/15/2013	6,896.06	6.11	6.33 H	7740	522	967	415 D	9	658	4490 D	241 D	0.18	131 D	0.63	0.2	<0.001	<0.001	<0.005	0.03	<0.001	1.89	<0.1	<0.05	<0.001	<0.1	0.0018	0.36	1.8	2.16	0.009 U	0.5 U	1.7
EPA 07	N	4/8/2013	6,896.04	5.97	6.24 H	7660	509	976	415 D	9	660	4510 D	228 D	0.19	126 D	0.91	0.2	<0.001	<0.001	<0.005	0.03	<0.001	1.96	<0.1	<0.05	<0.001	<0.1	0.0018	0.57	0.75 U	0.57	0.04 U	0.03 U	0.5
EPA 07	N	7/15/2013	6,896.66	6.04	6.22 H	7610	490	919	369 D	9	654	4380 D	227 D	0.09	131 D	0.54	0.2	<0.001	<0.001	<0.005	0.03	<0.001	1.77	<0.1	<0.05	<0.001	<0.1	0.0017	0.66	0.37 U	0.66	0.05	-1 U	1.5
EPA 07	N	10/7/2013	6,895.71	5.99	6.41 H	7920	500	930	385 D	8	664	4350 D	317 D	0.06	135 D	<0.50	0.2	<0.001	<0.001	<0.005	0.04	0.001	1.59	<0.1	<0.05	<0.001	<0.1	0.0019	0.74	2.5	3.24	0.09 U	-0.03 U	0.7
EPA 07	N	1/13/2014	6,895.54	6.19	6.22 H	7800	501	933	403 D	9	678	4330 D	240 D	0.08	128 D	0.53	0.3	<0.001	<0.001	<0.005	0.04	<0.001	1.64	<0.1	<0.05	<0.001	<0.1	0.002	0.8	1.2 U	0.8	0.02 U	-0.3 U	0.2 U
EPA 07	N	4/1/2014	6,895.43	6.29	6.31	7650	486	912	381	8	669	4360	240	0.13	135	0.7	0.3	<0.001	<0.001	<0.005	0.02	<0.001	1.43	<0.1	<0.05	<0.001	<0.1	0.0018	0.57	0.62 U	0.57	0.06 U	0.06 U	0.2 U
EPA 07	N	7/9/2014	6,895.71	7.30	6.18 H	7520	513	911	408 D	9	668	4180 D	241 D	<0.05	143 D	1.47	0.2	<0.001	<0.001	<0.005	0.04	<0.001	1.38	<0.1	0.05	<0.001	<0.1	0.0019	0.64	2	2.64	0.0 U	0.2 U	1.6
EPA 07	N	10/8/2014	6,895.16	6.17	6.46 H	7610	490	929	410 D	9	678	4310 D	229 D	0.05	126 D	0.71	0.2 D	<0.001	<0.001	<0.005	0.03	<0.001	1.4	<0.1	<0.05	<0.001	<0.1	0.0017	0.42	3.8	4.22	0.02 U	-0.09 U	0.5 U
EPA 07	N	1/7/2015	6,895.22	6.25	6.38 H	7720	486	882	372 D	8	685	4310 D	234 D	<0.05	122 D	<0.50	0.2	<0.001	<0.001	<0.005	0.04	<0.001	1.3	<0.1	<0.05	<0.001	<0.1	0.0023	1.2	1.6 U	1.2	0.05 U	-0.6 U	0.6
EPA 07	N	4/8/2015	6,894.90	6.31	6.25 H	7680	486	886	381	9	665	4450 D	277 D	<0.05	125 D	0.71	0.3	<0.001	<0.001	<0.005	0.04	<0.001	1.22	<0.1	<0.05	<0.001	<0.1	0.0018	1	1.6	2.6	0.09 U	0.01 U	0.8
EPA 07	N	7/8/2015	6,895.23	6.20	6.36 H	7790	507	904	395 D	9	669	4280 D	246 D	<0.05	129 D	0.57	0.3	<0.001	<0.001	<0.005	0.05	<0.001	1.29	<0.1	0.08	<0.001	<0.1	0.0015	1.2	1.3	2.5	0.06 U	-0.5 U	5.5
EPA 07	N	10/6/2015	6,894.87	6.23	6.63 H	7870	520	861	345	13	689	4450 D	262 D	0.09	123 D	4.12	0.1	<0.001	<0.001	<0.005	0.04	<0.001	1.33	<0.1	0.05	<0.001	<0.1	0.0016	0.39	0.68 U	0.39	0.06 U	-0.2 U	2.1
EPA 07	N	1/5/2016	6,894.79	6.26	6.31 H	7770	486	897	384	9	632	4430 D	253 D	0.08	118 D	1	0.2	<0.001	<0.001	<0.005	0.04	<0.001	1.34	<0.1	0.06	<0.001	<0.1	0.0014	0.65	3.2	3.85	0.1 U	-0.1 U	4.6
EPA 07	N	4/5/2016	6,894.87	6.31	6.31 H	7600	485	916	386	9	670	4300 D	244 DH	<0.05	128 D	1.56	0.3	<0.001	<0.001	<0.005	0.04	<0.001	1.3	<0.1	<0.05	<0.001	<0.1	0.0018	0.46	1.4	1.86	0.1 U	-0.4 U	3.2
EPA 07	N	7/12/2016	6,894.51	6.18	6.40 H	7570	492	873	376	8	653	4380 D	245 D	<0.05	124 D	1.19	0.2	<0.001	<0.001	<0.005	0.05	<0.001	1.45	<0.1	0.07	<0.001	<0.1	0.0017	0.82	2.4	3.22	0.08 U	0.03 U	2.8
EPA 07	N	10/4/2016	6,894.44	6.13	6.34 H	7900	495	905	389	9	667	4490 D	259 D	<0.05	132 D	1.48	0.3	<0.001	<0.001	<0.005	0.05	<0.001	1.34	<0.1	0.06	<0.001	<0.1	0.0015	0.66	3.4	4.06	-0.03 U	-0.4 U	2.2
EPA 07	N	1/10/2017	6,894.58	6.26	6.37 H	7710	507	906	388 D	9	659	4420 D	245 D	<0.05	135 D	1.1	0.2	<0.001	<0.001	<0.005	0.05	<0.001	1.33	<0.1	0.06	<0.001	<0.1	0.0014	0.62	2	2.62	-0.03 U	0.2 U	3.1
EPA 07	N	4/4/2017	6,894.38	6.28	6.46 H	7540 D	522	869	379	9	654	4350 D	247 D	<0.05	137 D	1.5	0.2	<0.001	<0.001	<0.005	0.05	<0.001	1.47	<0.1	0.07	<0.001	<0.1	0.0018	0.62	2.2	2.82	0.02 U	-0.2 U	5.5
EPA 07	N	7/11/2017	6,894.32	6.08	6.37 H	7420 D	504	898	390 D	9	645	4520 D	257 D	<0.05	132 D	1.3	0.2	<0.001	<0.001	<0.005	0.05	<0.001	1.44	<0.1	0.07	<0.001	<0.1	0.0015	0.52	1.2 U	0.52	0.2 U	-0.3 U	1.4
EPA 07	N	10/3/2017	6,893.98	6.16	6.40 H	7320 D	495	865	373 D	10	628	4040 D	492 D	<0.05	122 D	1.2	0.2	<0.001	<0.001	<0.005	0.07	<0.001	1.8	<0.1	0.1	<0.001	<0.1	0.0021	0.4	0.6 U	0.4	0.04 U	0.9 U	0.6
EPA 07	N	1/9/2018	6,894.00	6.09	6.34 H	7300 D	496	871	380 D	8	642	4010 D	233 D	<0.05	116 D	0.95	0.7	<0.001	<0.001	<0.005	0.07	<0.001	1.8	<0.1	0.1	<0.001	<0.1	0.0019	0.5	3.3	3.8	0.2	0.2 U	1.8
EPA 07	N	4/3/2018	6,893.73	6.22	6.35 H	7670 D	489	901	407 D	8	583	4380 D	236 D	<0.05	118 D	1.2	0.24 D	<0.001	<0.001	<0.001	0.078	<0.001	1.87 D	<0.001	0.086	<0.001	<0.01	0.0017	0.5	2.2	2.7	0.2	-1 U	0.3 U
EPA 07	N	7/10/2018	6,893.84	6.08	6.41 H	7860 D	496	845	370 D	8	586	4490 D	248 D	<0.05	127 D	0.91	0.23	<0.001	<0.001	<0.001	0.07	<0.001	1.83	<0.001	0.085	<0.001	<0.01	0.0004	0.8	2	2.8	0.02 U	1.2	1.2
EPA 07	N	10/2/2018	6,893.48	6.10	6.38 H	7800 D	471	790	344	8	588	4130 D	227 D	<0.05	122 D	1.2	0.16	<0.001	<0.001	<0.001	0.07	<0.001	1.84	<0.001	0.089	<0.001	<0.01	0.0015	0.7	2.2	2.9	0.09 U	0.6 U	1.4
EPA 07	N	1/8/2019	6,893.56	6.21	6.27 H	7770 D	502	876	372 D	9	580	4310 D	231 D	<0.05	116 D	1.4	0.25	<0.001	<0.001	<0.001	0.08	<0.001	1.96	<0.001	0.09	<0.001	<0.01	0.0016	0.6	2	2.6	0.07 U	-0.2 U	1.3
EPA 07	N	4/9/2019	6,893.27	6.26	6.23 H	7580 D	505	896	382 D	9	562	4400 D	239 D	<0.05	108 D	1.6	0.34	no data	<0.001	<0.001	0.08	<0.001	1.97	<0.001	0.104	no data	<0.01	0.0015	0.6	0.8 U	1.4	0.04 U	-0.3 U	2.5
EPA 07	N	8/1/2019	6,893.53	6.13	6.32 H	7680 D	450	819	325	7	553	4100 d	215 D	0.05	108 D	2.2	0.4 D	<0.001	<0.001	<0.001	0.102	<0.001	2.6	<0.001	0.12 D	0.091	0.02	0.0016	0.7	2.2	2.9	0.2 U	0.7 U	1.5
EPA 07	N	10/8/2019	6,893.07	6.08	6.25 H	7720	517	925	373	10	540	4360	226	<0.05	108	<0.5	0.27	<0.001	<0.001	<0.001	0.107	<0.001	3.02	<0.001	0.14	0.1	<0.01	0.0017	0.7	0.6	1.3	0.1	0.07	0.8
EPA 07	N		6,893.17	6.18	6.31 H	7570 DH	514	883	374	10	533	4410 D	226 D	<0.05	104 D	<0.5 J	0.07	<0.001	<0.001	<0.001	0.106	<0.001	2.86 D	0.004	0.119	0.082	<0.01	0.0024	0.9	-0.6 U	0.03	0.02 U	0.2 U	2.4

TABLE C.1
Zone 1 Data Summary, 1989-2019
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water Elevation	Field pH	Lab pH	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4 as N	NO3 as N	TTHMs (Chloroform)	Al	As	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	pci/l	pci/l	pci/l	pci/l	pci/l	pci/l
		NRC Standard	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	0.05	0.01	NA	0.05	NA	NA	0.07	0.01	0.1	0.238	NA	NA	12.1	1.6	4.7	15
		EPA Standard	NA	NA	NA	8020	NA	NA	NA	NA	NA	5539	250	NA	190	80	5	0.01	0.004	0.01	0.05	0.05	5.4	1	0.2	0.05	0.1	0.238	NA	NA	12.1	1.6	4.7	15
EPA 08	N	7/26/1989	6,857.40	6.80	5.89	4304	521	366	222	8.1	163	3007	35.9	0.88	0.06	< 1	< 0.1	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	3	< 0.1	< 0.05	< 0.001	< 0.1	0.0012	1.5	1.6	3.1	0.9	1.7	< 1
EPA 08	N	10/5/1989	6,858.00	6.50	6.96	4454	513	379	206	9.9	169	2863	35.4	0.84	0.09	< 1	0.13	< 0.001	< 0.05	< 0.01	< 0.01	< 0.05	2.9	< 0.01	< 0.05	< 0.001	< 0.1	0.004	1	< 1	1	< 0.2	2.1	1.5
EPA 08	N	1/16/1990	6,858.50	6.50	6.40	4478	486	348	209	8.15	165	2860	33.2	0.91	0.11	< 1	< 0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	3.3	< 0.1	< 0.05	< 0.001	< 0.1	0.003	0.8	2.5	3.3	< 0.2	< 1	0.9
EPA 08	N	4/17/1990	6,858.70	6.40	6.61	4577	496	344	210	7.9	165	2738	36.3	0.93	0.16	< 1	< 0.1	0.001	< 0.05	< 0.01	< 0.01	< 0.05	3	< 0.1	< 0.05	< 0.001	< 0.1	0.003	1.4	1	2.4	< 0.2	1.7	1.9
EPA 08	N	7/17/1990	6,858.70	6.50	6.46	4699	613	431	183	8.5	159	2893	35.7	0.54	0.06	< 1	0.14	0.002	< 0.05	< 0.01	< 0.01	< 0.05	3.41	< 0.1	< 0.05	< 0.001	< 0.1	0.0019	0.6	< 1	0.6	< 0.2	< 1	< 1
EPA 08	N	10/16/1990	6,859.20	6.50	6.73	4681	509	383	189	8	148	3053	43.4	0.71	0.03	< 1	< 0.1	0.002	< 0.05	< 0.01	< 0.01	< 0.05	3.4	< 0.1	< 0.05	< 0.001	< 0.1	0.0007	0.7	2.5	3.2	< 0.2	< 1	< 1
EPA 08	N	1/8/1991	6,859.40	6.50	6.50	4648	530	387	194	19	159	2959	39.4	0.86	0.04	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.32	< 0.1	< 0.05	< 0.001	< 0.1	0.0027	2.3	1.2	3.5	< 0.2	< 1	2
EPA 08	N	4/17/1991	6,860.00	6.40	7.18	4833	543	379	198	8.1	140	3164	45.4	0.82	3.3	< 1	0.16	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.82	< 0.1	< 0.05	< 0.001	< 0.1	0.002	2.1	4.5	6.6	< 0.2	< 1	2
EPA 08	N	7/3/1991	6,859.90	6.30	6.40	4711	514	373	161	7.1	141	3242	22.1	0.86	0.06	< 1	0.6	0.002	< 0.01	< 0.01	< 0.01	< 0.05	2.93	< 0.1	< 0.05	< 0.001	< 0.1	0.0015	0.9	2	2.9	< 0.2	< 1	< 1
EPA 08	N	10/22/1991	6,860.50	6.30	6.29	4612	497	366	182	7.6	166	2998	39.6	1.01	0.23	< 1	0.24	< 0.001	< 0.01	< 0.01	< 0.01	0.02	< 0.05	3.22	< 0.1	< 0.05	< 0.001	< 0.1	0.0436	0.8	2	2.8	< 0.2	< 1	< 1
EPA 08	N	1/22/1992	6,860.80	6.40	6.51	4311	525	376	155	7.3	128	3014	73.4	0.88	< 0.01	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	0.05	2.88	< 0.1	< 0.05	< 0.001	< 0.1	0.001	5.4	< 1	5.4	< 0.2	1.3	5
EPA 08	N	4/2/1992	6,860.80	6.30	7.65	4704	559	394	203	8.8	165	3034	36.4	0.98	< 0.01	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.43	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.5	3.8	4.3	< 0.2	< 1	< 1
EPA 08	N	7/15/1992	6,860.10	6.40	6.64	4809	521	388	176	7.7	126	3120	39.6	0.58	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	3.17	< 0.1	< 0.05	< 0.001	< 0.1	0.003	1.2	5.6	6.8	< 0.2	< 1	1.5
EPA 08	N	10/14/1992	6,860.30	6.60	6.47	4762	536	384	159	9.4	132	3158	39.3	0.66	< 0.1	< 1	0.21	0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.09	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.7	1.7	3.4	< 0.2	< 1	1.9
EPA 08	N	1/13/1993	6,860.10	6.60	6.63	4739	528	637	157	7.8	147	3159	37.7	1.08	< 0.1	< 1	0.2	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.46	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.4	10.7	11.1	< 0.2	< 1	< 1
EPA 08	N	4/15/1993	6,861.00	6.60	6.53	4910	479	359	183	6.6	125	3019	40.8	0.8	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.05	< 0.1	< 0.05	< 0.001	< 0.1	0.006	0.5	3.8	4.3	< 0.2	< 1	< 1
EPA 08	N	7/20/1993	6,862.80	6.60	7.10	4144	562	352	159	7.9	134	2956	39.6	0.69	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	2.78	< 0.1	< 0.05	< 0.001	< 0.1	< 0.003	1	3.4	4.4	< 0.2	< 1	1.4
EPA 08	N	10/12/1993	6,859.40	6.70	6.19	4366	561	370	169	7.1	117	3110	36.9	0.71	< 0.1	< 1	0.16	< 0.001	< 0.01	< 0.01	0.02	< 0.05	2.8	< 0.1	< 0.05	< 0.001	< 0.1	0.002	1.5	5.5	7	< 0.2	< 1	2
EPA 08	N	1/11/1994	6,861.30	6.70	6.46	4765	528	366	177	6.7	111	3197	39.4	0.74	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.07	< 0.1	< 0.05	< 0.001	< 0.1	0.006	1.1	5	6.1	< 0.2	< 1	9.6
EPA 08	N	4/20/1994	6,861.40	6.50	6.22	4532	530	368	162	6.4	116	3154	39.6	1.33	< 0.1	< 1	0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.49	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.3	3.5	4.8	< 0.2	1.3	6.7
EPA 08	N	7/26/1994	6,862.60	6.50	7.13	4389	592	379	142	7.5	109	3049	38.7	0.72	< 0.1	< 1	0.12	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.12	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.9	3.4	5.3	< 0.2	< 1	7.2
EPA 08	N	10/11/1994	6,861.50	6.50	6.90	4809	572	425	157	7.5	119	3367	41.5	1.08	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.46	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.2	1.8	3	< 0.2	< 1	4.1
EPA 08	N	1/10/1995	6,861.70	6.40	6.62	4848	644	388	142	8.5	139	3277	42	1.31	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.95	< 0.1	< 0.05	< 0.001	< 0.1	0.001	2.3	2.6	4.9	< 0.2	< 1	6.4
EPA 08	N	4/6/1995	6,861.60	6.50	6.48	4867	651	345	154	7.5	108	3364	40.2	1.52	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.15	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.1	2.7	3.8	< 0.2	< 1	5.3
EPA 08	N	7/11/1995	6,861.80	6.90	7.05	4212	550	408	144	7.3	127	2906	42	1.29	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.92	0.27	< 0.05	< 0.001	< 0.1	0.0016	0.7	2.2	2.9	0.5	4.9	6.6
EPA 08	N	10/10/1995	6,861.90	6.60	7.13	4348	575	411	160	7.3	127	2965	38.4	0.93	< 0.1	< 1	< 0.1	0.002	< 0.01	< 0.01	< 0.01	< 0.05	2.99	< 0.1	< 0.05	< 0.001	< 0.1	0.0017	1.7	2.2	3.9	< 0.2	< 1	1.8
EPA 08	N	1/9/1996	6,862.00	6.70	7.29	4185	545	401	156	7.9	162	2863	37.6	0.68	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.8	0.13	< 0.05	< 0.001	< 0.1	0.001	1	1.5	2.5	< 0.2	3.8	< 1
EPA 08	N	4/10/1996	6,862.20	6.90	7.24	4857	620	444	148	7.6	149	3460	41.8	0.75	< 0.1	< 1	< 0.1	0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.96	0.14	< 0.05	< 0.001	< 0.1	0.0006	1.2	1.3	2.5	0.7	< 1	1.2
EPA 08	N	7/17/1996	6,862.30	6.80	6.63	4876	560	395	159	8	165	3085	37.6	0.13	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.21	< 0.1	< 0.05	0.002	< 0.1	0.0016	0.7	< 1	0.7	0.8	< 1	< 1
EPA 08	N	10/8/1996	6,862.30	6.60	6.98	4880	603	441	157	8	148	3061	39	0.73	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3	< 0.1	< 0.05	< 0.001	< 0.1	0.0005	0.9	< 1	0.9	< 0.2	< 1	< 1
EPA 08	N	1/28/1997	6,862.30	6.90	7.31	4870	565	415	141	7.6	143	3130	51	0.69	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.07	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.1	< 1	1.1	< 0.2	< 1	1.1
EPA 08	N	4/15/1997	6,862.40	6.60	7.10	4890	604	440	160	8.2	156	3330	42	0.73	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.01	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	1.1	< 1	1.1	< 0.2	< 1	< 1
EPA 08	N	7/15/1997	6,862.20	6.60	7.11	4860	603	432	145	7.8	138	3200	45.2	0.73	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	2.82	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.7	< 1	0.7	< 0.2	< 1	< 1
EPA 08	N	10/15/1997	6,862.40	6.50	7.49	4850	617	444	147	7.6	133	3190	53.7	0.75	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.01	< 0.01	< 0.05	3.24	< 0.1	< 0.05	< 0.001	< 0.1	0.001	0.7	< 1	0.7	< 0.2	< 1	< 1
EPA 08	N	1/20/1998	6,863.00	6.60	7.53	4840	598	439	156	8.4	133	3400	45.3	1.12	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	3.42	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.1	< 1	1.1	< 0.2	< 1	< 1
EPA 08	N	4/14/1998	6,862.70	6.70	6.93	4850	592	431	151	7.8	159	3300	39.6	0.74	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.99	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	1	< 1	1	< 0.2	< 1	< 1
EPA 08	N	7/14/1998	6,862.40	6.60	7.17	4820	594	430	154	8.3	132	3000	39.7	0.85	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.84	< 0.1	< 0.05	< 0.001	< 0.1	0.0009	0.9	< 1	0.9	< 0.2	< 1	< 1
EPA 08	N	10/13/1998	no data	6.47	7.58	4780	566	428	156	8.3	134	3150	38.5	1.07	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	3.05	< 0.1	< 0.05	< 0.001	< 0.1	0.001	1.4	3.8	5.2	< 0.2	2.3	2.3
EPA 08	N	1/12/1999	6,865.50	6.60	7.20	4840	594	432	139	8	130	3200	41	0.81	< 0.1	< 1	< 0.1	0.003	< 0.01	< 0.005	< 0.01	< 0.05	2.98	< 0.1	< 0.05	< 0.001	< 0.1	0.0038	1	2.3	3.3	< 0.2	< 1	< 1
EPA 08	N	4/13/1999	6,863.30	6.60	7.35	4630	558	420	136	7.7	131	3000	45.7	0.91	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.98	< 0.1	< 0.05	< 0.001	< 0.1	0.0011	2	3.4	5.4	< 0.2	3	3
EPA 08	N	7/20/1999	6,863.00	6.36	7.18	4780	514	379	169	10.3	119	2710	47	0.76	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.4	< 0.1	< 0.05	< 0.001	< 0.1	0.0016	1.4	1.5	2.9	< 0.2	1.8	1.8
EPA 08	N	10/12/1999	6,862.90	6.45	7.44	4790	552	414	133	7.7	121	3000	42.9	0.71	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	3.08	< 0.1	< 0.05	< 0.001	< 0.1	< 0.0003	0.9	4.2	5.1	< 0.2	< 1	1.6
EPA 08	N	1/11/2000	6,863.20	6.60	7.29	4720	510	387	127	8.1	125	2750	39.3	0.79	< 0.1	< 1	< 0.1	< 0.001	< 0.01	< 0.005	< 0.01	< 0.05	2.99	< 0.1	< 0.05	< 0.001	< 0.1	0.0016	0.9	2.6	3.5	< 0.2	< 1	< 1

APPENDIX C
ZONE 1 MONITORING DATA
(CONT.)

NOTES FOR TABLE C.1
ZONE 1 DATA SUMMARY, 1989 - 2019

General Notes:

1. NRC standard as listed in License Condition 30, Part B (revised 2015 [NRC, 2015] and with proposed corrections of typographical errors [GE, 2015]), based on updated BTVs for the site [UNC, 2012; GE, 2012b).
2. EPA standard is revised cleanup level based on updated BTV evaluation for the site (Chester Engineers, 2015b) and approved for use to complete Part III of the SWSFS (EPA, 2015).
3. Standard for nitrate changed to reflect revised standards recommended in the NRC's 1996 evaluation of background water quality and documented in the January 6, 1998, letter from NMED to EPA.
4. NA - Not applicable.
5. Data qualifiers

   D - sample reporting limit was increased due to sample matrix.

   E - analyte concentration exceeded instrument calibration range (estimated result)

   H - analysis was performed past the recommended method holding time.

   U - Not detected at minimum detectable concentration
6. Values that exceed the NRC and/or EPA standards are shaded.
7. Gross alpha value excludes contribution from radon and uranium.
8. "No data" indicates that the analysis or measurement was not performed.
9. Reporting limit for bicarbonate changed from 0.0 mg/L to 0.1 mg/L in fourth quarter 1997.
10. Reporting limit for cadmium changed from 0.01 mg/L to 0.005 mg/L after fourth quarter 1997. The analytical method changed from EPA 200.7 (ICP) to 200.8 (ICP-MS).
11. NO_3 (nitrate) is reported by the laboratory as nitrate + nitrite as N.
12. During August 2006, the NRC issued License Amendment 37 (NRC, 2006b) revising the former 1 ug/L chloroform groundwater protection standard to 80 ug/L for total trihalomethanes (TTHMs) in the Southwest Alluvium, Zone 1 and Zone 3; and also revising the current combined radium-226 and -228 groundwater protection standard of 5 pCi/L to 5.2 pCi/L in the Southwest Alluvium and 9.4 pCi/L in Zone 1. The combined radium standards have been subsequently revised (see Note 1).

APPENDIX C
ZONE 1 MONITORING DATA
(CONT.)

13. Energy Laboratory's reporting of radiological analyses changed during 2008 (N.A. Water Systems, 2008d). This affected the reporting of Church Rock sample analyses beginning in April 2008 (2nd quarter). The changes were made to make the reporting methods consistent with Section 7.5 of The United States Nuclear Regulatory Commission's Regulatory Guide 4.14.

    The changes are summarized as follows:

    - A minimum detectable concentration (MDC) is determined and reported for each analysis.
    - Sample results are reported regardless of whether they are lower than the MDC, for the analysis. This may result in the reporting of negative concentrations.
    - Sample results lower than the MDC are qualified with a "U".

    These noted changes affected the reporting of all radiological parameters analyzed in Church Rock samples, except for thorium-230. Energy Labs did not have an approved methodology for determining MDC values for thorium-230. In the absence of MDC values, the historical reporting limit was used instead. Therefore, U-qualified results for thorium-230 indicate concentrations below a reporting limit rather than an MDC. Otherwise, the reporting of thorium-230 results was treated similarly to other radiological parameters. This means that measured concentrations were reported with a U qualification if the values were below the reporting limit.

    The rationale for reporting values below MDC or reporting limit, even if negative, is that errors associated with the reported values are expected, over time, to average to zero. This means that averages or sums (e.g. for total radium) of concentrations will tend to be more accurate if below limit (MDC or reporting) results are retained in the calculations.

14. At the request of EPA, UNC had the laboratory reduce the reporting limits for beryllium and lead. The new reporting limits are lower than the action levels. Beryllium's former reporting limit of 10 ug/L has been reduced to 1 ug/L (using lab method E200.7), and lead's former reporting limit of 50 ug/L has been reduced to 1 ug/L (using lab method E200.8). These changes were implemented during the July 2012 sampling event.

15. The laboratory analytical method for NH4-N was changed from A4500-NH3 G to E350.1 beginning in October 2018. The methods are considered equal and all results will be comparable.

16. Laboratory reporting limits for several analytes were reduced beginning in January 2018. These changes, most of which coincided with a change in the analytical method (from E200.7 to E200.8), are summarized as follows:

    - Aluminum from 0.1 mg/L to 0.03 mg/L.
    - Cadmium from 0.005 mg/L to 0.001 mg/L.
    - Cobalt from 0.01 mg/L to 0.005 mg/L.

APPENDIX C
ZONE 1 MONITORING DATA
(CONT.)

- Manganese from 0.01 mg/L to 0.001 mg/L.
- Molybdenum from 0.1 mg/L to 0.001 mg/L.
- Nickel from 0.05 mg/L to 0.005 mg/L.
- Vanadium from 0.1 mg/L to 0.01 mg/L.

17. Only total values are included in the attached table. Speciation test results are provided for arsenic and selenium in Appendix D.
18. 2019 Third quarter sampling (normally completed in July) had to be resampled in August in wells (NW-2, NW-4, Well 142 and EPA 02, 04, 05 and 07) due to a refrigeration failure at ENERGY laboratory.

Specific Notes:

- Well TWQ-143 is monitored for water level only beginning in 2nd quarter 2000 in accordance with the Revised Monitoring Program.
- Well EPA 8 is monitored for water level only beginning in 2nd quarter 2000 in accordance with the Revised Monitoring Program.
- Well 516 A was eliminated from the monitoring program as of 2nd quarter 2000 in accordance with the Revised Monitoring Program.
- Well 619 was eliminated from the monitoring program as of 2nd quarter 2000 in accordance with the Revised Monitoring Program.
- Well TWQ-141 was not sampled in 4th quarter 1999.
- Well TWQ-141 was eliminated from the monitoring program as of 2nd quarter 2000 in accordance with the Revised Monitoring Program.
- Wells 412, 501 A, 502 A, 504 A, and 505 A added to the monitoring program in 2nd quarter 2000 as water level monitoring wells.
- At the request of EPA, for the first time since January 2000 Well 619 was sampled in October 2012 (analyzed for the full laboratory analyte list; both filtered and unfiltered samples were collected. During that same sampling event, Well 617 was sampled for the first time (this is a decommissioned pumping well).
- At the request of EPA, UNC made turbidity measurements during the July and October 2012 sampling events.

wood.

Appendix D: Comparison of Arsenic vs. Selenium – Total vs Speciation Analytical Data

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TABLE D.1
Comparison of Arsenic vs. Selenium – Total vs Speciation Analytical Data
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

HSU	Lowest Arsenic Std (mg/l)	Lowest Selenium Std (mg/l)	Sample Location	Sample Date	Speciated (As III) ARSENIC-E1632AM (mg/L)	Total Dissolved ARSENIC-E200_8 (mg/L)	Speciated (Se IV) SELENIUM-A3114C (mg/L)	Total Dissolved SELENIUM-E200_8 (mg/L)	11(e)2 ?
SW ALLUV	0.01	0.07	0509 D	07-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	0509 D	08-Apr-19	<0.005	0.005	<0.001	0.003	
SW ALLUV	0.01	0.07	0509 D	15-Jul-19		0.001		<0.001	
SW ALLUV	0.01	0.07	0509 D	09-Oct-19		0.001		<0.001	
SW ALLUV	0.01	0.07	0624	08-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	0624	09-Apr-19	<0.005	0.002	<0.001	<0.001	
SW ALLUV	0.01	0.07	0624	30-Jul-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	0624	11-Oct-19		<0.001		<0.002	
SW ALLUV	0.01	0.07	0627	08-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	0627	09-Apr-19	<0.005	0.002	<0.001	0.018	
SW ALLUV	0.01	0.07	0627	30-Jul-19		<0.001		0.020	
SW ALLUV	0.01	0.07	0627	11-Oct-19		<0.001		0.018 D	
SW ALLUV	0.01	0.07	0632	07-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	0632	08-Apr-19	<0.005	0.003	<0.001	<0.001	
SW ALLUV	0.01	0.07	0632	15-Jul-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	0632	10-Oct-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	0801	07-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	0801	08-Apr-19	<0.005	0.002	<0.001	0.002	
SW ALLUV	0.01	0.07	0801	15-Jul-19		<0.001		0.002	
SW ALLUV	0.01	0.07	0801	10-Oct-19		<0.001		0.002	
SW ALLUV	0.01	0.07	0802	07-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	0802	08-Apr-19	<0.005	0.003	<0.001	<0.001	
SW ALLUV	0.01	0.07	0802	15-Jul-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	0802	10-Oct-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	0803	07-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	0803	08-Apr-19	<0.005	0.002	<0.001	<0.001	
SW ALLUV	0.01	0.07	0803	15-Jul-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	0803	09-Oct-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	0808	07-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	0808	08-Apr-19	<0.005	0.003	<0.001	<0.001	
SW ALLUV	0.01	0.07	0808	15-Jul-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	0808	09-Oct-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	EPA 23	07-Jan-19	0.002		<0.001		
SW ALLUV	0.01	0.07	EPA 23	08-Apr-19	<0.005	0.003	0.001	<0.001	
SW ALLUV	0.01	0.07	EPA 23	15-Jul-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	EPA 23	09-Oct-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	EPA 25	08-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	EPA 25	09-Apr-19	<0.005	0.002	<0.001	<0.001	
SW ALLUV	0.01	0.07	EPA 25	30-Jul-19		0.001		<0.001	
SW ALLUV	0.01	0.07	EPA 25	11-Oct-19		<0.001		<0.002	
SW ALLUV	0.01	0.07	EPA 28	07-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	EPA 28	08-Apr-19	<0.005	0.002	<0.001	<0.001	
SW ALLUV	0.01	0.07	EPA 28	15-Jul-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	EPA 28	10-Oct-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	GW 1	07-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	GW 1	08-Apr-19	<0.005	0.003	<0.001	<0.001	
SW ALLUV	0.01	0.07	GW 1	15-Jul-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	GW 1	10-Oct-19		<0.001		<0.001	
SW ALLUV	0.01	0.07	SBL-01	08-Jan-19	<0.001		<0.001		
SW ALLUV	0.01	0.07	SBL-01	09-Apr-19	<0.005	0.002	0.001	0.013	
SW ALLUV	0.01	0.07	SBL-01	30-Jul-19		<0.001		0.019	
SW ALLUV	0.01	0.07	SBL-01	11-Oct-19		<0.001		0.016 D	
ZONE 1	0.01	0.01	0142	09-Jan-19	<0.001		<0.001		
ZONE 1	0.01	0.01	0142	10-Apr-19	<0.005	<0.001	<0.001	<0.001	
ZONE 1	0.01	0.01	0142	31-Jul-19		0.001		<0.001	
ZONE 1	0.01	0.01	0142	09-Oct-19		0.001		<0.001	
ZONE 1	0.01	0.01	0515 A	08-Jan-19	<0.001		0.003		
ZONE 1	0.01	0.01	0515 A	09-Apr-19		0.002	0.0025 H	0.071	
ZONE 1	0.01	0.01	0515 A	25-Jul-19		<0.001		0.072	Yes
ZONE 1	0.01	0.01	0515 A	06-Sep-19			<0.005	0.065	
ZONE 1	0.01	0.01	0515 A	02-Oct-19	<0.020	<0.001	<0.005	0.068	

TABLE D.1
Comparison of Arsenic vs. Selenium – Total vs Speciation Analytical Data
United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

HSU	Lowest Arsenic Std (mg/l)	Lowest Selenium Std (mg/l)	Sample Location	Sample Date	Speciated (As III) ARSENIC-E1632AM (mg/L)	Total Dissolved ARSENIC-E200_8 (mg/L)	Speciated (Se IV) SELENIUM-A3114C (mg/L)	Total Dissolved SELENIUM-E200_8 (mg/L)	11(e)2 ?
ZONE 1	0.01	0.01	0604	08-Jan-19	<0.001		<0.001		
ZONE 1	0.01	0.01	0604	10-Apr-19		0.001	0.00059 H	0.045	
ZONE 1	0.01	0.01	0604	25-Jul-19		<0.001		0.052	Yes
ZONE 1	0.01	0.01	0604	06-Sep-19			<0.005	0.041	
ZONE 1	0.01	0.01	0604	02-Oct-19	<0.020	<0.001	<0.005	0.053	
ZONE 1	0.01	0.01	0614	08-Jan-19	<0.001		0.002		
ZONE 1	0.01	0.01	0614	09-Apr-19		0.002	0.00091 H	0.066	
ZONE 1	0.01	0.01	0614	24-Jul-19		<0.001		0.075	Yes
ZONE 1	0.01	0.01	0614	06-Sep-19			<0.005	0.073	
ZONE 1	0.01	0.01	0614	02-Oct-19	<0.020	<0.001	<0.005	0.069	
ZONE 1	0.01	0.01	EPA 02	09-Jan-19	<0.001		<0.001		
ZONE 1	0.01	0.01	EPA 02	10-Apr-19	<0.005	<0.001	<0.001	<0.001	
ZONE 1	0.01	0.01	EPA 02	01-Aug-19		<0.001		<0.001	
ZONE 1	0.01	0.01	EPA 02	09-Oct-19		0.001		<0.001	
ZONE 1	0.01	0.01	EPA 04	09-Jan-19	<0.001		<0.001		
ZONE 1	0.01	0.01	EPA 04	10-Apr-19	<0.005	<0.001	<0.001	<0.001	
ZONE 1	0.01	0.01	EPA 04	31-Jul-19		<0.001		<0.001	
ZONE 1	0.01	0.01	EPA 04	08-Oct-19		0.001		<0.001	
ZONE 1	0.01	0.01	EPA 05	09-Jan-19	<0.001		<0.001		
ZONE 1	0.01	0.01	EPA 05	09-Apr-19	<0.005	<0.001	0.001	0.001	
ZONE 1	0.01	0.01	EPA 05	01-Aug-19		<0.001		0.001	
ZONE 1	0.01	0.01	EPA 05	08-Oct-19		0.001		<0.001	
ZONE 1	0.01	0.01	EPA 07	08-Jan-19	<0.001		<0.001		
ZONE 1	0.01	0.01	EPA 07	09-Apr-19	<0.005	<0.001	<0.001	0.091	
ZONE 1	0.01	0.01	EPA 07	01-Aug-19		<0.001	<0.001	0.100	
ZONE 1	0.01	0.01	EPA 07	08-Oct-19		<0.001	<0.001	0.082	
ZONE 3	0.757	0.01	0420	14-Jan-19	0.007		0.001		
ZONE 3	0.757	0.01	0420	15-Apr-19	<0.005	0.019	0.002	<0.001	
ZONE 3	0.757	0.01	0420	24-Jul-19		0.022		<0.001	
ZONE 3	0.757	0.01	0420	04-Oct-19		0.008		<0.001	
ZONE 3	0.757	0.01	0517	14-Jan-19	<0.001		<0.001		
ZONE 3	0.757	0.01	0517	16-Apr-19	<0.005	0.004	<0.001	<0.001	
ZONE 3	0.757	0.01	0517	24-Jul-19		0.002		<0.001	
ZONE 3	0.757	0.01	0517	03-Oct-19		0.003		<0.001	
ZONE 3	0.757	0.01	0613	14-Jan-19	<0.001		<0.001		
ZONE 3	0.757	0.01	0613	15-Apr-19		0.007	0.00039 H	0.021 D	
ZONE 3	0.757	0.01	0613	26-Jul-19		0.008		0.023	Yes
ZONE 3	0.757	0.01	0613	06-Sep-19			<0.005	0.013	
ZONE 3	0.757	0.01	0613	01-Oct-19	<0.020	0.007	<0.005	0.02	
ZONE 3	0.757	0.01	0708	14-Jan-19	<0.001		<0.001		
ZONE 3	0.757	0.01	0708	15-Apr-19		0.004		<0.001	Yes
ZONE 3	0.757	0.01	0708	23-Jul-19		0.018		<0.001	
ZONE 3	0.757	0.01	0708	01-Oct-19		0.002		<0.001	
ZONE 3	0.757	0.01	0711	15-Jan-19	0.002		<0.001		
ZONE 3	0.757	0.01	0711	15-Apr-19	<0.005	0.008	<0.001	<0.001	
ZONE 3	0.757	0.01	0711	23-Jul-19		0.002		<0.001	
ZONE 3	0.757	0.01	0711	03-Oct-19		0.001		<0.001	
ZONE 3	0.757	0.01	0717	15-Jan-19	<0.001		<0.001		
ZONE 3	0.757	0.01	0717	15-Apr-19		0.006	0.00023 H	0.011	
ZONE 3	0.757	0.01	0717	23-Jul-19		0.008		0.011	Yes
ZONE 3	0.757	0.01	0717	06-Sep-19			<0.005	0.008	
ZONE 3	0.757	0.01	0717	01-Oct-19	<0.020	0.007	<0.005	0.009	
ZONE 3	0.757	0.01	0719	15-Jan-19	0.001		<0.001		
ZONE 3	0.757	0.01	0719	16-Apr-19	<0.005	0.01	<0.001	<0.001	
ZONE 3	0.757	0.01	0719	25-Jul-19		0.005		<0.001	
ZONE 3	0.757	0.01	0719	08-Oct-19		0.005		<0.001	
ZONE 3	0.757	0.01	EPA 13	14-Jan-19	0.008		<0.001		
ZONE 3	0.757	0.01	EPA 13	16-Apr-19	0.016	0.828	0.001	<0.001	
ZONE 3	0.757	0.01	EPA 13	24-Jul-19	<0.005	0.417		<0.001	
ZONE 3	0.757	0.01	EPA 13	03-Oct-19	0.011	0.072		<0.001	
ZONE 3	0.757	0.01	EPA 14	14-Jan-19	<0.001		<0.001		
ZONE 3	0.757	0.01	EPA 14	15-Apr-19		0.002		<0.001	Yes
ZONE 3	0.757	0.01	EPA 14	24-Jul-19		0.001		<0.001	
ZONE 3	0.757	0.01	EPA 14	01-Oct-19		<0.001		<0.001	

TABLE D.1

Comparison of Arsenic vs. Selenium – Total vs Speciation Analytical Data

United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

HSU	Lowest Arsenic Std (mg/l)	Lowest Selenium Std (mg/l)	Sample Location	Sample Date	Speciated (As III) ARSENIC-E1632AM (mg/L)	Total Dissolved ARSENIC-E200_8 (mg/L)	Speciated (Se IV) SELENIUM-A3114C (mg/L)	Total Dissolved SELENIUM-E200_8 (mg/L)	11(e)2 ?
ZONE 3	0.757	0.01	MW-7	15-Jan-19	0.001		<0.001		
ZONE 3	0.757	0.01	MW-7	16-Apr-19	<0.005	0.006	<0.001	<0.001	
ZONE 3	0.757	0.01	MW-7	26-Jul-19		0.013		<0.001	
ZONE 3	0.757	0.01	MW-7	04-Oct-19		0.037		<0.001	
ZONE 3	0.757	0.01	NBL-02	04-Oct-19	<0.005	<0.001		<0.001	
ZONE 3	0.757	0.01	NW-3	15-Jan-19	4.65 D		0.001		
ZONE 3	0.757	0.01	NW-3	16-Apr-19	7.6 D	9.51 D	0.002	<0.001	
ZONE 3	0.757	0.01	NW-3	26-Jul-19	7.7 D	10.2 D		<0.001	
ZONE 3	0.757	0.01	NW-3	04-Oct-19	1.6 D	10.4		<0.001	
ZONE 3	0.757	0.01	NW-5	10-Oct-19	0.042	0.133	<0.001	<0.001	
ZONE 3	0.757	0.01	RW-11	08-Oct-19	<0.005	0.002	<0.001	<0.001	
ZONE 3	0.757	0.01	RW-A	08-Oct-19	<0.005	<0.001	0.003	<0.001	

Blank indicates not analyzed.

Yellow shading indicates exceedance of lowest standard (either NRC or EPA standard, or both).

Certain wells resampled during 3Q19 (9/6/19) for selenium analysis (total and speciated) by Inter-Mountain Labs

Primary samples shown (i.e., field duplicate samples not included).

The "11(e)2?" column indicates those samples that should be handled as 11(e)2 byproduct material.

H indicates analysis performed past recommended holding time.