

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As	
			Elevation	pH	pH											as N	as N	(Chloroform)	
NRC Standard			ft amsl	SU	SU	mg/l	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
EPA Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05	
0502 B	N	7/13/1999	6863.30	4.70	3.90	5820	487	580	100	14.2	< 0.1	3800	24.9	3.25	< 0.1	< 1	6.14	< 0.001	
0502 B	N	10/5/1999	6863.70	4.25	3.78	5830	503	612	114	13.6	< 0.1	4050	31.2	3.87	< 0.1	< 1	8.31	< 0.001	
0502 B	N	1/4/2000	6863.90	4.30	4.29	5750	469	572	105	14	< 0.1	3720	28.9	3.29	< 0.1	< 1	7.15	< 0.001	
0504 B	N	7/23/1989	6868.10	6.20	6.50	4631	515	440	172	10.5	293	3027	37.9	0.49	0.05	< 1	0.25	0.113	
0504 B	N	10/11/1989	6867.30	5.90	6.68	4674	491	384	150	13.8	271	2947	39	0.58	0.23	< 1	0.2	0.054	
0504 B	N	1/3/1990	6865.90	5.70	6.36	4458	497	373	146	11	217	2793	35.9	0.7	0.05	< 1	0.22	0.025	
0504 B	N	4/3/1990	6864.60	6.00	6.30	4622	503	407	144	10.8	203	2751	36.9	0.79	0.08	< 1	< 0.1	0.017	
0504 B	N	7/2/1990	6863.50	5.60	6.32	4598	554	424	143	10.6	229	2931	33.2	0.36	0.06	< 1	< 0.1	0.023	
0504 B	N	10/2/1990	6862.70	5.80	6.71	4631	469	456	146	10.5	198	3067	33.7	0.39	0.02	< 1	< 0.1	0.021	
0504 B	N	1/3/1991	6862.70	5.70	6.25	4687	534	446	140	31.6	166	3022	32.5	0.86	0.08	< 1	< 0.1	0.002	
0504 B	N	4/9/1991	6861.70	5.60	6.51	4678	531	437	134	13.5	159	2979	30.9	0.74	0.07	< 1	< 0.1	0.001	
0504 B	N	7/16/1991	6860.70	5.60	6.30	4769	535	392	132	10.8	161	3427	33.1	0.91	0.1	< 1	< 0.1	< 0.001	
0504 B	N	10/14/1991	6857.30	5.80	6.62	4495	456	269	131	8.3	245	2640	39.2	0.44	0.03	< 1	< 0.1	0.573	
0504 B	N	1/14/1992	6855.40	5.40	6.06	5014	502	378	161	10.8	121	3119	40.3	3.1	< 0.01	< 1	< 0.1	0.34	
0504 B	N	4/7/1992	6855.90	5.40	6.21	5112	500	473	162	13.1	207	3372	31.4	0.92	< 0.1	< 1	< 0.1	0.035	
0504 B	N	7/7/1992	6855.80	5.10	7.63	5218	578	463	194	14.1	50.9	3249	41	0.63	< 0.1	< 1	< 0.1	0.388	
0504 B	N	10/6/1992	6851.70	5.40	5.85	5061	593	430	185	13.9	63.4	3278	37.3	0.84	< 0.1	< 1	1.1	0.257	
0504 B	N	1/21/1993	6849.90	5.40	5.90	4440	525	378	159	14.3	38.1	3194	43.2	0.93	< 0.1	< 1	1.3	0.181	
0504 B	N	4/14/1993	6849.90	5.60	6.50	4825	519	494	171	10.4	82.8	3373	37.6	0.76	< 0.1	< 1	0.1	0.042	
0504 B	N	7/15/1993	6848.40	5.60	4.91	4659	540	464	160	14.8	13.2	3430	41.2	0.93	< 0.1	< 1	1.17	0.139	
0504 B	N	10/6/1993	6844.70	5.70	5.67	4372	543	385	155	11	27.6	3129	33.5	0.6	0.2	< 1	0.17	0.014	
0504 B	N	1/5/1994	6847.00	5.70	6.01	5244	578	450	145	10.6	58.5	3491	38.7	0.8	< 0.1	< 1	< 0.1	0.041	
0504 B	N	4/13/1994	6846.50	5.80	6.01	5083	580	433	138	10.6	47.9	3448	37.9	1.82	< 0.1	< 1	< 0.1	0.019	
0504 B	N	7/21/1994	6846.30	5.90	6.25	4998	600	452	135	11.1	62.8	3467	32.3	0.91	< 0.1	< 1	0.15	0.012	
0504 B	N	10/5/1994	6846.30	5.80	6.56	5208	604	489	176	12.5	68.3	3421	35.5	1.4	< 0.1	< 1	< 0.1	0.01	
0504 B	N	1/5/1995	6844.80	5.80	6.41	4827	570	406	152	12.2	117	3232	35.8	1.38	< 0.1	< 1	< 0.1	0.009	
0504 B	N	4/5/1995	6845.00	5.80	7.46	5199	527	487	145	11.3	35.4	3710	37.1	1.49	< 0.1	< 1	< 0.1	0.011	
0504 B	N	7/6/1995	6845.10	6.30	6.51	4787	515	470	145	11.7	58.7	3298	33.5	1.64	< 0.1	< 1	< 0.1	0.01	
0504 B	N	10/4/1995	6844.10	6.00	6.70	4530	490	450	151	11.6	71.1	3315	33	1.36	0.23	< 1	< 0.1	0.008	
0504 B	N	1/4/1996	6843.30	6.20	6.44	4519	530	455	156	11.3	92	3116	32	0.66	1.68	< 1	< 0.1	0.005	
0504 B	N	4/2/1996	6843.10	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	
0504 B	N	7/7/1996	6842.70	6.00	6.22	5316	515	475	153	13.4	44	3440	39.2	0.67	< 0.1	< 1	< 0.1	0.01	
0504 B	N	10/1/1996	6842.20	6.30	6.00	5260	539	509	154	12.7	53.7	3427	34.6	0.62	< 0.1	< 1	< 0.1	0.005	
0504 B	N	1/21/1997	6843.90	6.10	5.61	5220	515	525	149	14.1	8.5	3530	34.2	0.72	< 0.1	< 1	0.16	0.017	
0504 B	N	4/8/1997	6842.10	6.10	6.92	5180	537	534	145	12.5	76.3	3640	37.5	0.61	< 0.1	1	< 0.1	< 0.001	
0504 B	N	7/8/1997	6841.30	7.10	6.53	5390	564	565	153	13.8	42.6	3850	37.7	0.67	< 0.1	< 1	0.17	0.017	
0504 B	N	10/8/1997	6841.70	5.70	6.40	5350	531	519	141	12.3	26	3430	37.5	0.78	0.15	< 1	0.16	0.02	
0504 B	N	1/16/1998	6841.20	5.80	6.60	5360	517	520	152	13.4	32.7	3500	36.4	1.12	0.1	< 1	1.15	0.025	
0504 B	N	4/7/1998	6841.00	5.70	5.91	5420	518	529	146	12.3	19.2	3350	32.4	0.76	< 0.1	< 1	0.22	0.024	
0504 B	N	7/7/1998	6841.00	6.00	4.34	5140	503	519	153	12.7	< 0.1	3550	33	0.96	< 0.1	< 1	0.23	0.013	



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Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha		
			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	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	5	5	1	15	
EPA Standard	0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15				
0502 B	N	7/13/1999	< 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	< 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	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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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		
0504 B	N	10/8/1997	< 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	< 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	< 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	< 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		

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Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As		
			Elevation	pH	pH											as N	as N	(Chloroform)		
			ft amsl	SU	SU	mg/l	mg/l	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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05		
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05		
0504 B	N	10/6/1998	6841.20	5.70	6.33	5340	543	555	158	13.8	29.7	3500	32.7	3.99	0.29	< 1	0.24	0.019		
0504 B	N	1/6/1999	6841.00	5.60	6.36	5340	463	524	141	12.3	38	3700	33	0.7	0.19	< 1	0.33	0.025		
0504 B	N	4/6/1999	6841.20	5.50	6.53	5370	508	542	140	12.4	31	3440	38.6	0.8	< 0.1	< 1	0.37	0.015		
0504 B	N	7/13/1999	6840.81	6.50	6.51	5350	522	558	132	13.3	28	3500	32	0.75	0.38	< 1	0.17	0.02		
0504 B	N	10/5/1999	6841.40	5.73	5.53	5260	540	583	152	12.5	9	3740	34	0.96	0.26	< 1	< 0.1	0.022		
0504 B	N	1/4/2000	6841.50	6.00	7.11	5220	497	543	135	12.7	31	3380	30.2	0.64	0.5	< 1	< 0.1	0.021		
0504 B	N	5/1/2000	6841.40	5.60	6.69	5500	474	526	134	12.3	51	3480	34	0.75	< 0.1	< 1	0.3	0.033		
0504 B	N	7/10/2000	6841.30	5.45	6.20	5510	506	570	150	12.3	48	3440	28.4	0.68	< 0.1	< 1	0.21	0.025		
0504 B	N	10/2/2000	6841.40	6.52	6.28	5650	510	620	147	13.8	44	3740	33	0.53	< 0.1	< 1	0.2	0.033		
0504 B	N	1/15/2001	6841.80	5.02	5.92	5590	480	564	135	12.5	43	4100	34.6	0.71	< 0.1	< 1	0.2	0.028		
0504 B	N	4/2/2001	6841.80	7.50	6.02	5590	479	595	153	12.1	13	3480	29.3	0.88	< 0.1	< 1	0.3	0.026		
0504 B	N	7/16/2001	6841.70	3.50	3.70	5810	458	590	134	24.3	< 0.1	3570	44	0.84	< 0.1	< 1	0.3	0.036		
0504 B	N	10/8/2001	6841.85	3.55	5.80	5920	450	590	132	12.3	26.8	3300	35.9	0.77	< 0.1	< 1	0.16	0.026		
0504 B	N	1/7/2002	6841.60	5.46	3.50	5840	499	628	128	13	< 0.1	3940	42	0.63	< 0.1	< 1	0.2	0.023		
0504 B	N	4/8/2002	6841.90	3.30	3.36	5980	477	616	142	12.6	< 0.1	3810	33.5	0.7	< 0.1	< 1	0.2	0.018		
0504 B	N	7/15/2002	6841.80	4.55	3.42	6060	561	713	143	12.3	< 0.1	4430	25.6	1.23	< 0.1	< 1	< 0.1	0.02		
0504 B	N	10/14/2002	6841.70	3.43	3.80	4980	460	605	144	11.5	< 0.1	3710	26.8	1.16	< 0.1	< 1	0.2	0.019		
0504 B	N	1/13/2003	6841.31	5.54	4.47	5980	531	710	137	11.8	< 0.1	4140	15.6	1.27	< 0.1	< 1	0.2	0.025		
0504 B	N	4/14/2003	6841.59	5.14	3.27	6140	626	873	158	15.2	< 0.1	5300	30.2	1.3	< 0.1	< 1	< 0.1	0.012		
0504 B	N	7/14/2003	6841.31	5.35	3.34	6230	474	633	158	12.4	< 0.1	3750	28.3	1.1	< 0.1	< 1	0.2	0.017		
0504 B	N	10/13/2003	6841.16	5.48	3.36	6100	512	699	152	12.6	< 0.1	4260	30.4	1.05	< 0.1	< 1	0.3	0.023		
0504 B	N	1/12/2004	6840.94	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		
0504 B	N	4/12/2004	6840.84	5.36	3.50	6120	485	652	148	13.4	< 1	4140	31.8	1.26	< 0.1	< 1	0.1	0.022		
0504 B	N	7/19/2004	6840.83	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		
0504 B	N	10/11/2004	6840.74	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		
0504 B	N	1/10/2005	6840.60	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		
0504 B	N	4/11/2005	6840.33	5.55	4.27	5990	512	693	166	12.4	< 1	4340	30	1.07	< 0.1	< 1.0	0.3	0.02		
0504 B	N	7/18/2005	6840.19	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		
0504 B	N	10/10/2005	6839.55	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		
0504 B	N	1/16/2006	6838.98	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		
0504 B	N	4/10/2006	6838.71	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		
0504 B	N	7/24/2006	6838.23	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		
0504 B	N	10/9/2006	6837.89	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		
0504 B	N	1/15/2007	6837.51	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		
0504 B	N	4/17/2007	6836.83	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		
0504 B	N	7/17/2007	6836.81	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		
0504 B	N	10/9/2007	6836.13	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		
0504 B	N	1/22/2008	6835.95	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		
0504 B	N	4/15/2008	6835.96	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		
0504 B	N	7/15/2008	6835.41	5.26	3.9	5950	437	607	140 D	12	< 1	3940 D	26	0.36	< 0.1	< 0.5	2.9	0.003		

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha		
			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	0.05	0.01	NA	0.05	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	5	5	1	15
EPA Standard	0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	NA	15			
0504 B	N	10/6/1998	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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		

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As		
			Elevation	pH	pH											as N	as N	(Chloroform)		
			ft amsl	SU	SU	mg/l	mg/l	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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05		
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05		
0504 B	N	10/13/2008	6835.11	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		
0504 B	N	1/20/2009	6834.86	5.5	3.44	5750	466	618	167	13	<1	4140 D	21	0.49	<0.1	<0.5	5.2	0.028		
0504 B	N	4/14/2009	6834.86	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		
0504 B	N	7/14/2009	6834.51	3.56	3.69	5980	474	597	147	12	<1	4020 D	27	0.55	<0.1	<0.50	4.6	<0.001		
0504 B	N	10/13/2009	6834.36	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		
0504 B	N	1/12/2010	6834.41	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		
0504 B	N	7/20/2010	6833.21	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		
0504 B	N	10/12/2010	6833.41	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		
EPA 01	N	7/25/1989	6804.30	6.50	6.40	4590	648	380	161	10.2	427	2852	29.3	0.83	0.01	< 1	0.39	0.149		
EPA 01	N	10/4/1989	6804.50	6.60	6.73	4522	620	352	158	13.4	466	2844	25.9	0.32	0.01	< 1	0.45	0.156		
EPA 01	N	1/16/1990	6804.20	6.40	6.56	4632	576	352	161	10.6	458	2842	29.5	0.46	0.02	< 1	0.2	0.142		
EPA 01	N	4/17/1990	6803.80	6.30	6.76	4714	593	244	156	10.2	468	2662	30.4	0.63	0.07	< 1	0.41	0.183		
EPA 01	N	7/12/1990	6803.10	6.40	6.78	4725	583	360	151	10.8	482	2652	29.7	0.26	0.1	< 1	< 0.1	0.195		
EPA 01	N	10/16/1990	6802.90	6.30	7.19	4706	633	388	172	12.8	448	2800	32	0.36	0.11	< 1	< 0.1	0.318		
EPA 01	N	1/8/1991	6802.30	6.40	6.70	4730	628	384	159	29	436	2719	66	0.51	0.05	< 1	< 0.1	0.181		
EPA 01	N	4/16/1991	6802.20	6.30	7.74	4746	608	368	161	11.2	480	2596	34.1	0.46	0.29	< 1	< 0.1	0.193		
EPA 01	N	7/3/1991	6801.80	6.40	6.99	4494	560	333	141	9	488	2905	31.8	0.21	< 0.01	< 1	< 0.1	0.19		
EPA 01	N	10/22/1991	6801.40	6.40	7.14	4713	584	344	156	10.2	483	2853	38.1	0.32	< 0.01	< 1	< 0.1	0.242		
EPA 01	N	1/22/1992	6801.00	6.30	7.31	4824	584	344	148	9.7	452	2905	36.2	< 0.05	< 0.01	< 1	< 0.1	0.21		
EPA 01	N	4/2/1992	6800.50	6.10	7.35	4238	566	365	188	12.3	462	2813	34.5	0.46	< 0.01	< 1	< 0.1	0.175		
EPA 01	N	7/15/1992	6799.10	6.20	7.01	4765	582	375	173	11.5	459	2868	36.1	0.42	< 0.1	< 1	< 0.1	0.176		
EPA 01	N	10/14/1992	6798.60	6.30	6.93	4708	567	342	155	11.5	425	3104	35.5	0.53	< 0.1	< 1	0.12	0.303		
EPA 01	N	1/13/1993	6798.10	6.30	6.96	4557	574	320	171	12.5	423	2834	36	0.48	< 0.1	< 1	< 0.1	0.059		
EPA 01	N	4/15/1993	6797.90	6.30	8.00	4149	532	376	165	9.2	373	2836	31.2	0.17	0.6	< 1	< 0.1	0.06		
EPA 01	N	7/20/1993	6797.50	6.40	7.10	4178	601	326	145	10.7	421	2769	33	0.24	< 0.1	< 1	< 0.1	0.047		
EPA 01	N	10/12/1993	6796.30	6.80	6.92	4118	578	326	155	9.2	404	2815	30.2	0.08	< 0.1	< 1	< 0.1	0.107		
EPA 01	N	1/11/1994	6796.90	6.70	7.66	4656	566	339	132	9.1	333	3005	28.4	< 0.05	0.6	< 1	< 0.1	0.05		
EPA 01	N	4/20/1994	6796.50	6.60	6.67	4260	560	342	132	8.7	345	2874	27.6	0.62	0.16	< 1	< 0.1	0.071		
EPA 01	N	7/26/1994	6797.40	6.70	7.51	4000	570	348	129	8.8	328	2726	27.6	0.12	0.14	< 1	< 0.1	0.055		
EPA 01	N	10/11/1994	6795.90	6.70	7.84	4596	622	383	157	10.3	349	3145	26.6	0.36	0.58	< 1	< 0.1	0.05		
EPA 01	N	1/10/1995	6795.60	6.60	7.60	4626	705	261	144	12	309	2941	28.9	0.46	0.44	< 1	< 0.1	0.069		
EPA 01	N	4/11/1995	6795.90	6.80	6.98	4431	616	318	131	9.6	360	2885	31.9	0.57	0.12	< 1	< 0.1	0.036		
EPA 01	N	7/11/1995	6795.30	7.00	7.93	4039	595	356	132	9.6	367	2673	28.7	0.36	0.52	< 1	< 0.1	0.043		
EPA 01	N	10/10/1995	6795.20	6.90	7.81	4065	600	355	144	10.1	334	2730	24.5	0.31	0.24	< 1	< 0.1	0.037		
EPA 01	N	1/10/1996	6794.90	7.10	7.34	4572	595	360	129	9.1	276	2935	33	0.06	0.31	< 1	< 0.1	0.016		
EPA 01	N	4/10/1996	6794.80	7.50	7.88	4540	615	370	128	10.2	248	3000	26.1	0.07	0.22	< 1	< 0.1	0.017		
EPA 01	N	7/17/1996	6794.70	7.00	7.29	4458	560	330	135	10.4	242	2925	25.2	0.05	< 0.1	< 1	< 0.1	0.015		
EPA 01	N	10/8/1996	6794.50	7.00	7.43	4440	635	377	134	10.2	248	2926	24.1	0.11	< 0.1	< 1	< 0.1	0.019		
EPA 01	N	7/15/1997	6801.00	6.10	7.67	4630	628	375	134	10.4	200	3000	25.2	0.08	0.14	< 1	< 0.1	0.009		
EPA 01	N	10/15/1997	6794.80	no data	7.87	4600	638	394	137	10.2	196	3050	31.4	0.54	0.24	< 1	< 0.1	0.01		

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
<b>NRC Standard</b>			<b>0.05</b>	<b>0.01</b>	<b>NA</b>	<b>0.05</b>	<b>NA</b>	<b>NA</b>	<b>0.05</b>	<b>0.01</b>	<b>0.1</b>	<b>0.3</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>15</b>
<b>EPA Standard</b>			<b>0.017</b>	<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>2.6</b>	<b>1</b>	<b>0.2</b>	<b>0.01</b>	<b>0.7</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>15</b>
0504 B	N	10/13/2008	< 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	< 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	< 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	< 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	< 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	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	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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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
EPA 01	N	7/3/1991	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As	
			Elevation	pH	pH											as N	as N	(Chloroform)	mg/l
NRC Standard			ft amsl	SU	SU	mg/l	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
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05	
EPA 03	N	7/26/1989	6895.60	6.80	5.83	4839	587	465	118	10.5	168	3358	25.1	0.31	0.02	< 1	< 0.1	0.003	
EPA 03	N	10/5/1989	6894.90	6.30	6.52	4742	507	438	115	13.9	159	3131	24.6	0.27	0.09	< 1	< 0.1	0.017	
EPA 03	N	1/23/1990	6892.80	6.80	6.29	5594	616	494	148	12.9	159	3620	26.3	0.51	0.1	< 1	< 0.1	0.003	
EPA 03	N	4/18/1990	6891.70	6.40	7.00	5639	560	523	130	11.1	45.5	3653	28.9	0.57	0.04	< 1	< 0.1	0.024	
EPA 03	N	7/17/1990	6890.50	6.70	6.10	5385	600	536	120	11.9	139	3368	23.6	0.28	0.04	< 1	< 0.1	0.016	
EPA 03	N	10/16/1990	6889.50	6.50	6.60	4846	517	468	127	13	142	3253	29.7	0.26	0.02	< 1	< 0.1	0.001	
EPA 03	N	1/8/1991	6888.80	6.60	6.25	4646	532	481	119	22	145	3002	27.3	0.23	0.07	< 1	0.2	0.006	
EPA 03	N	4/17/1991	6888.30	6.60	6.99	4392	513	349	120	14.1	142	2888	25.6	0.21	0.02	< 1	0.25	0.008	
EPA 03	N	7/3/1991	6887.70	6.60	6.42	3939	467	353	112	11	137	2885	31.2	0.35	0.03	< 1	0.2	0.008	
EPA 03	N	10/22/1991	6887.00	6.60	6.51	3752	493	264	116	13.4	139	2485	24.2	0.18	0.02	< 1	0.22	0.001	
EPA 09	N	7/26/1989	6911.00	6.10	5.54	5122	543	558	122	11.9	122	3598	28.1	0.43	0.07	< 1	0.22	< 0.001	
EPA 09	N	10/5/1989	6911.20	4.80	6.06	5382	507	580	118	15	92.5	3566	28.3	0.62	0.07	< 1	1	< 0.001	
EPA 09	N	1/16/1990	6911.20	5.70	6.15	4982	458	498	125	12	214	3210	23.8	0.38	0.15	< 1	< 0.1	< 0.001	
EPA 09	N	4/17/1990	6911.10	5.50	6.00	5133	479	492	130	11.5	274	3261	28	0.46	0.18	< 1	0.25	0.001	
EPA 09	N	7/17/1990	6910.80	4.90	4.30	5971	494	619	115	11.7	< 1	4248	26.8	0.45	0.03	< 1	8	< 0.009	
EPA 09	N	10/16/1990	6910.90	4.70	4.29	5548	494	554	117	12.5	50	3753	33.7	0.41	0.02	< 1	1.1	0.001	
EPA 09	N	1/8/1991	6910.70	5.30	6.19	5309	548	569	131	16	105	3561	31.1	0.49	< 0.01	< 1	0.61	< 0.001	
EPA 09	N	4/17/1991	6910.90	5.30	6.25	5360	458	543	124	13.2	68	3576	27.3	0.43	0.03	< 1	4.9	< 0.001	
EPA 09	N	7/3/1991	6910.70	4.80	6.27	4927	453	516	107	10.2	121	3446	37.7	0.5	0.2	< 1	1.52	0.002	
EPA 09	N	10/22/1991	6910.80	5.00	5.97	5269	475	501	119	11.1	122	3555	33.2	0.42	< 0.01	< 1	1.58	0.001	
EPA 09	N	1/22/1992	6911.60	5.20	5.29	6127	484	567	110	11.1	14.7	4132	27.7	0.93	0.49	< 1	1.01	0.013	
EPA 09	N	4/2/1992	6910.60	5.40	6.61	5681	576	609	133	15.1	60.9	4137	34.4	0.73	< 0.1	< 1	2.5	0.014	
EPA 09	N	7/15/1992	6909.70	5.80	3.88	6008	496	573	122	12.4	< 1	3956	66.8	0.28	0.1	< 1	1.25	0.01	
EPA 09	N	10/14/1992	6909.70	5.30	3.90	6070	479	537	109	12	< 1	3996	51	0.45	< 0.1	< 1	2.36	0.018	
EPA 09	N	1/13/1993	6909.50	5.60	7.06	5015	493	475	116	12.1	105	3403	24.4	0.67	< 0.1	< 1	< 0.1	0.003	
EPA 09	N	4/15/1993	6909.60	5.30	6.44	4596	425	494	126	9.9	62.3	3487	27.9	0.45	0.2	< 1	0.18	< 0.001	
EPA 09	N	7/20/1993	6909.80	5.60	5.94	4554	493	464	117	10.9	54.8	3250	30	0.25	< 0.1	< 1	< 0.1	< 0.001	
EPA 09	N	10/12/1993	6907.00	5.90	5.89	4633	497	490	115	10.8	86.4	3399	27.3	0.42	< 0.1	< 1	1.22	< 0.001	
EPA 09	N	1/12/1994	6908.00	4.40	2.87	5738	535	556	101	11.8	< 1	4110	55.2	0.58	0.13	< 1	31.1	0.029	
EPA 09	N	4/20/1994	6908.70	5.40	3.62	5771	550	556	108	10	< 1	4149	30	1.82	< 0.1	< 1	3.3	0.021	
EPA 09	N	7/26/1994	6909.50	5.20	6.16	4732	540	479	115	10.3	31.3	3472	28	0.46	< 0.1	< 1	0.81	< 0.001	
EPA 09	N	10/11/1994	6908.40	5.00	3.63	5664	508	603	119	11.3	< 1	4045	28.7	1.08	< 0.1	< 1	1.1	< 0.001	
EPA 09	N	1/10/1995	6908.20	5.30	4.92	6144	560	650	117	13.3	10.3	4239	28.9	1.78	< 0.1	< 1	5.54	0.012	
EPA 09	N	4/11/1995	6908.60	6.20	6.04	5264	550	526	120	11.5	119	3500	15.7	1.15	< 0.1	< 1	0.18	0.002	
EPA 09	N	7/11/1995	6907.90	5.90	6.06	5046	498	540	120	11.5	34.1	3485	29.8	1.04	< 0.1	< 1	< 0.1	0.003	
EPA 09	N	10/10/1995	6908.00	5.70	6.95	5003	510	530	120	11.6	70.8	3475	27	0.88	< 0.1	< 1	0.15	0.001	
EPA 09	N	1/9/1996	6907.60	5.60	5.94	5085	485	550	109	11.3	52.8	3790	28.4	0.24	< 0.1	< 1	1.87	< 0.001	
EPA 09	N	4/10/1996	6907.60	5.90	6.20	5494	525	575	107	11.7	27.5	3905	28.2	0.35	< 0.1	< 1	0.34	0.001	
EPA 09	N	7/17/1996	6907.40	5.90	5.58	5615	505	555	117	12.1	23.4	3816	32	0.31	< 0.1	< 1	0.56	< 0.001	
EPA 09	N	10/8/1996	6907.40	5.70	4.44	5590	542	609	116	12.1	< 1	3943	29	0.33	< 0.1	< 1	0.5	0.001	

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	5	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
EPA 03	N	7/26/1989	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	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	< 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	< 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	< 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	< 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	< 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	< 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	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	< 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	< 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	< 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	< 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	< 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	< 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	< 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
EPA 09	N	1/9/1996	< 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	< 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	< 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	< 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



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 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
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
EPA 09	N	1/28/1997	6912.30	5.80	6.07	5510	500	545	109	11.7	29.3	3695	30.8	0.35	< 0.1	< 1	0.5	< 0.001
EPA 09	N	4/15/1997	6907.20	5.40	5.72	5740	532	616	112	12.1	21.2	4040	31.3	0.38	< 0.1	1	0.81	< 0.001
EPA 09	N	7/15/1997	6906.80	5.20	5.27	5780	515	606	109	12	7.4	3560	32.5	0.39	< 0.1	< 1	1.47	0.003
EPA 09	N	10/15/1997	6906.70	5.60	4.49	5860	507	632	110	11.7	< 0.1	3990	37.7	0.54	< 0.1	< 1	2.44	0.002
EPA 09	N	1/20/1998	6907.10	4.80	5.64	5570	504	595	119	13.1	9.27	4200	34.4	0.82	< 0.1	< 1	1.61	< 0.001
EPA 09	N	4/14/1998	6906.80	4.90	4.22	5840	510	610	107	11.3	< 0.1	3720	30.7	0.5	< 0.1	< 1	1.8	0.003
EPA 09	N	7/14/1998	6906.60	4.60	4.45	5820	488	611	115	12.3	< 0.1	3700	30.1	0.52	< 0.1	< 1	2.66	0.004
EPA 09	N	10/13/1998	6907.90	3.83	4.56	5820	484	622	116	12.6	1.2	4000	29.1	1.08	0.23	< 1	2.84	0.002
EPA 09	N	1/12/1999	6917.50	4.30	4.58	5870	423	601	107	11.8	< 0.1	4000	28.9	0.55	< 0.1	< 1	2.9	0.005
EPA 09	N	4/13/1999	6907.80	4.10	4.45	5860	472	624	105	11.8	< 0.1	3750	38.9	0.66	< 0.1	< 1	3.42	< 0.001
EPA 09	N	7/20/1999	6907.51	3.80	4.18	5930	492	634	104	13.1	< 0.1	3860	32.9	0.48	< 0.1	< 1	2.8	0.002
EPA 09	N	10/12/1999	6907.40	4.90	4.47	5860	459	591	108	11.6	< 0.1	3680	32.6	0.57	< 0.1	< 1	3.44	0.014
EPA 09	N	1/11/2000	6907.80	4.20	4.25	5790	460	610	103	12.2	< 0.1	3690	31.7	0.62	< 0.1	< 1	4.12	< 0.001
EPA 12	N	7/25/1989	6865.90	6.10	5.96	4722	582	430	151	9.7	139	3151	30.2	0.38	0.02	< 1	< 0.1	0.001
EPA 12	N	10/4/1989	6865.80	5.90	6.40	4742	534	414	132	10.9	167	3039	26.4	0.37	0.03	< 1	0.11	0.001
EPA 12	N	1/16/1990	6864.80	5.90	6.01	4712	505	392	148	9.82	146	3074	27.1	0.4	0.7	< 1	< 0.1	0.002
EPA 12	N	4/17/1990	6863.90	5.90	6.47	4757	521	402	143	9.2	170	2989	27	0.41	0.15	< 1	< 0.1	0.002
EPA 12	N	7/12/1990	6862.80	6.00	6.26	4839	532	437	143	10	139	2754	27.9	0.27	0.12	< 1	< 0.1	0.084
EPA 12	N	10/16/1990	6862.20	6.00	6.65	4816	491	409	146	10.7	142	3102	29	0.32	0.07	< 1	< 0.1	0.095
EPA 12	N	1/8/1991	6861.40	6.00	6.29	4828	536	429	144	24	140	3100	27.3	0.48	0.07	< 1	0.1	0.004
EPA 12	N	4/16/1991	6861.00	5.90	6.86	4863	527	429	137	8.5	109	3204	27.6	0.31	0.1	< 1	0.14	0.066
EPA 12	N	7/3/1991	6860.40	5.80	6.32	4623	486	409	133	8	119	3257	25.1	0.41	0.03	< 1	0.34	0.055
EPA 12	N	10/22/1991	6859.70	5.80	6.28	4884	507	423	140	8.5	139	3226	29.5	0.16	< 0.01	< 1	0.2	0.054
EPA 12	N	1/22/1992	6858.40	5.90	6.24	5060	531	423	130	8.2	75.4	3162	24.8	1.72	< 0.01	< 1	< 0.1	0.036
EPA 12	N	4/2/1992	6857.50	5.60	7.04	4820	523	457	167	11.1	122	3297	23.4	1.5	< 0.1	< 1	< 0.1	0.026
EPA 12	N	7/15/1992	6856.00	5.80	7.22	5073	495	438	149	9.3	50	3264	23.8	0.23	< 0.1	< 1	< 0.1	0.013
EPA 13	N	7/25/1989	6881.30	5.50	5.56	5054	576	479	136	11.8	31.7	3454	29.7	0.84	14.1	< 1	0.21	0.007
EPA 13	N	10/4/1989	6880.40	5.50	6.40	4736	550	407	129	15.1	86.1	3180	27.6	0.51	26	< 1	0.42	0.012
EPA 13	N	1/16/1990	6878.50	5.10	5.30	5042	482	477	128	12.3	14.4	3420	26.4	0.96	4.6	< 1	0.19	0.021
EPA 13	N	4/17/1990	6877.70	5.00	5.60	5256	496	485	122	11.8	66.6	3377	27.4	1.03	4.1	< 1	< 0.1	0.024
EPA 13	N	7/17/1990	6876.80	5.30	5.60	5140	590	527	117	11.3	40	3253	25	0.51	10.8	< 1	0.24	0.033
EPA 13	N	10/16/1990	6876.10	5.70	5.98	5067	513	422	129	12.6	39	3355	31.1	0.57	6.8	< 1	0.1	0.016
EPA 13	N	1/8/1991	6875.20	5.40	5.73	5153	531	515	121	23	35	3432	29.4	0.95	9.6	< 1	0.74	0.066
EPA 13	N	4/16/1991	6874.80	5.30	5.53	5255	485	457	124	12.8	13	3460	49.5	1.05	5.6	< 1	< 0.1	0.031
EPA 13	N	7/3/1991	6876.30	5.20	5.66	5240	472	473	109	10.4	25	3357	23.6	1.2	0.45	< 1	1.14	0.044
EPA 13	N	10/22/1991	6876.10	5.20	5.75	5409	488	466	114	11.3	39	3611	28.5	0.78	< 0.01	< 1	0.22	0.1
EPA 13	N	1/22/1992	6875.52	5.40	5.48	5640	502	496	115	10.6	15.1	3733	24.1	0.46	< 0.01	< 1	< 0.1	0.077
EPA 13	N	4/7/1992	6875.22	5.40	6.79	5228	629	539	149	14.1	59.9	3924	26.7	0.92	< 0.1	< 1	0.2	0.134
EPA 13	N	7/15/1992	6874.00	5.60	4.25	5888	541	556	131	11.5	< 1	3862	21.6	0.49	< 0.1	< 1	< 0.1	0.084
EPA 13	N	10/14/1992	6873.50	5.80	5.25	6201	534	572	131	11.7	29.3	4186	32.7	0.58	< 0.1	< 1	0.58	0.175



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	5	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
EPA 09	N	1/28/1997	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	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 12	N	7/25/1989	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As	
			Elevation	pH	pH												(Chloroform)		
			ft amsl	SU	SU	mg/l	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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05	
EPA 13	N	1/14/1993	6873.00	5.70	5.02	6412	636	738	128	12.4	92.3	4391	30.1	0.11	< 0.1	< 1	0.42	0.23	
EPA 13	N	4/15/1993	6872.00	5.80	5.81	5848	469	731	155	10	38	4315	27.6	0.64	< 0.1	< 1	< 0.1	0.186	
EPA 13	N	7/20/1993	6872.10	5.90	5.89	6564	535	817	137	10.9	28.5	4790	28.9	0.61	< 0.1	< 1	< 0.1	0.265	
EPA 13	N	10/12/1993	6869.80	6.20	5.38	6064	518	715	135	10.3	21	4387	30.4	0.56	< 0.1	< 1	< 0.1	0.154	
EPA 13	N	1/11/1994	6871.60	6.10	6.15	6208	510	696	145	9.8	57.2	4444	30	0.57	< 0.1	< 1	< 0.1	0.225	
EPA 13	N	4/20/1994	6871.60	6.00	6.00	6116	514	686	132	9.1	79.2	4436	30.7	1.33	< 0.1	< 1	< 0.1	0.262	
EPA 13	N	7/26/1994	6871.60	5.90	6.51	6088	528	782	154	10.9	67.6	4343	33.3	0.17	< 0.1	< 1	0.66	0.199	
EPA 13	N	10/11/1994	6870.40	5.90	6.46	6762	506	806	162	11	80.5	4784	34.7	0.97	< 0.1	< 1	< 0.1	0.192	
EPA 13	N	1/10/1995	6869.90	6.00	6.57	6748	545	815	142	12	98.6	4810	34	1.28	< 0.1	< 1	< 0.1	0.253	
EPA 13	N	4/11/1995	6870.20	6.20	6.13	6718	522	714	154	11	94.5	4729	40	1.36	< 0.1	< 1	< 0.1	0.23	
EPA 13	N	7/11/1995	6869.40	6.90	6.61	6107	500	814	141	10.5	67.1	4435	37.7	1.14	< 0.1	< 1	< 0.1	0.255	
EPA 13	N	10/10/1995	6869.30	6.20	6.85	6119	485	730	154	11.2	78.1	4340	33.6	1.12	< 0.1	< 1	< 0.1	0.225	
EPA 13	N	1/9/1996	6868.90	6.30	6.47	6144	465	730	141	10.4	95	4440	33.6	0.45	< 0.1	< 1	< 0.1	0.227	
EPA 13	N	4/10/1996	6867.30	6.80	7.09	6642	544	877	148	11.1	85.8	5040	35.9	0.53	< 0.1	< 1	< 0.1	0.295	
EPA 13	N	7/17/1996	6868.70	6.20	6.23	6694	468	761	149	11.7	74.5	4320	39	0.45	< 0.1	< 1	< 0.1	0.269	
EPA 13	N	10/8/1996	6868.50	6.30	6.32	6670	519	830	151	11.5	79.1	4689	36	0.5	< 0.1	< 1	< 0.1	0.301	
EPA 13	N	1/28/1997	6868.20	6.50	6.95	6570	512	800	132	10.9	101	4570	50.1	0.48	< 0.1	< 1	< 0.1	0.43	
EPA 13	N	4/15/1997	6868.00	6.30	6.79	6750	510	828	145	11.6	100	4740	39.2	0.51	< 0.1	1	< 0.1	0.331	
EPA 13	N	7/15/1997	6868.00	6.20	7.02	6740	499	795	145	11.6	83.7	4620	38.7	0.48	< 0.1	< 1	< 0.1	0.464	
EPA 13	N	10/15/1997	6867.50	6.40	7.21	6670	497	830	144	11.1	89.5	4620	49.6	0.6	< 0.1	< 1	< 0.1	0.595	
EPA 13	N	1/20/1998	6867.80	6.00	7.07	6610	486	780	152	12.3	84.7	4700	43.4	0.84	< 0.1	< 1	< 0.1	0.444	
EPA 13	N	4/14/1998	6867.60	6.30	7.12	6630	494	795	138	10.6	83	4560	38	0.55	< 0.1	< 1	< 0.1	0.563	
EPA 13	N	7/14/1998	6867.40	6.00	6.89	6700	473	777	149	11.8	76.8	4100	35.6	0.59	0.11	< 1	< 0.1	0.45	
EPA 13	N	10/13/1998	6868.50	5.93	7.72	6440	472	795	151	12	90.2	4520	36.1	0.65	< 0.1	< 1	< 0.1	0.613	
EPA 13	N	1/12/1999	6868.20	6.20	6.99	6510	410	769	137	11.7	92	4450	36.8	0.6	< 0.1	< 1	< 0.1	0.514	
EPA 13	N	4/13/1999	6868.10	6.10	6.93	6520	456	776	136	11.1	86	4200	46	0.69	< 0.1	< 1	< 0.1	0.717	
EPA 13	N	7/20/1999	6868.02	6.20	6.94	6510	476	791	134	12.8	77	4260	42	0.53	< 0.1	< 1	< 0.1	< 0.001	
EPA 13	N	10/12/1999	6867.90	6.10	7.16	6520	430	726	133	11.4	100	3890	40.7	0.53	< 0.1	< 1	< 0.1	0.443	
EPA 13	N	1/11/2000	6868.40	6.10	7.17	6340	455	787	138	12	92	4160	37.5	0.6	< 0.1	< 1	< 0.1	0.347	
EPA 13	N	4/9/2001	6867.90	7.19	6.43	6110	522	835	138	11.6	79	4660	36.5	0.62	< 0.1	< 1	0.1	0.601	
EPA 13	N	7/16/2001	6867.60	5.73	6.77	6450	421	733	139	13.3	81	3950	49.9	0.67	< 0.1	< 1	< 0.1	0.386	
EPA 13	N	10/8/2001	6867.80	5.96	6.60	6390	410	710	116	11	86	3600	48.5	0.53	< 0.1	< 1	< 0.1	0.32	
EPA 13	N	1/15/2002	6867.90	5.42	6.50	6250	502	804	129	12.7	91.5	4060	43.7	0.49	< 0.1	< 1	< 0.1	0.383	
EPA 13	N	4/8/2002	6867.67	5.75	6.47	6300	442	728	132	11.5	88.4	3980	43.9	0.54	< 0.1	< 1	< 0.1	0.322	
EPA 13	N	7/15/2002	6867.63	5.23	6.59	6450	519	840	126	10.9	85.4	4660	30.3	0.86	< 0.1	< 1	< 0.1	0.313	
EPA 13	N	10/14/2002	6867.52	5.52	6.70	5770	502	832	142	12.3	86.6	4650	42.3	0.8	< 0.1	< 1	< 0.1	0.29	
EPA 13	N	1/13/2003	6867.41	6.72	6.66	6190	626	973	121	10.5	78.7	5220	26.7	0.86	< 0.1	< 1	< 0.1	0.345	
EPA 13	N	4/15/2003	6867.62	5.87	6.62	6360	449	784	142	14.2	84.2	4210	39.9	1.03	< 0.1	< 1	< 0.1	0.31	
EPA 13	N	7/14/2003	6867.52	5.79	6.70	6430	443	725	136	12.4	78.1	3850	38.8	0.85	< 0.1	< 1	< 0.1	0.454	
EPA 13	N	10/14/2003	6867.48	5.90	6.87	6270	480	808	140	11.6	83	4440	40.2	0.78	< 0.1	< 1	< 0.1	0.3	

**TABLE B.1**  
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 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	5	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
EPA 13	N	1/14/1993	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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
EPA 13	N	1/9/1996	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As	
			Elevation	pH	pH												(Chloroform)		
			ft amsl	SU	SU	mg/l	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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05	
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05	
EPA 13	N	1/14/2004	6867.57	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	
EPA 13	N	4/13/2004	6867.54	5.85	6.04	6260	452	746	137	12.6	89	4240	44.2	0.94	< 0.1	< 1	< 0.1	0.289 D	
EPA 13	N	7/19/2004	6867.45	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	
EPA 13	N	10/12/2004	6867.36	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	
EPA 13	N	1/11/2005	6867.57	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	
EPA 13	N	4/12/2005	6867.29	6.07	6.37	6050	492	786	149	11.8	76	4450	42	0.7	< 0.1	< 1.0	< 0.1	0.24	
EPA 13	N	7/19/2005	6867.32	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	
EPA 13	N	10/11/2005	6867.25	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	
EPA 13	N	1/16/2006	6867.28	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	
EPA 13	N	4/11/2006	6867.08	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	
EPA 13	N	7/25/2006	6867.12	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	
EPA 13	N	10/10/2006	6866.95	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	
EPA 13	N	1/16/2007	6866.72	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	
EPA 13	N	4/17/2007	6866.70	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	
EPA 13	N	7/17/2007	6866.62	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	
EPA 13	N	10/9/2007	6866.42	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	
EPA 13	N	1/22/2008	6866.50	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	
EPA 13	N	4/14/2008	6866.37	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	
EPA 13	N	7/14/2008	6866.37	5.98	6.46	6250	458	748	134 D	12	77	4340 D	40	0.24	< 0.1	< 0.5	< 0.1	0.05	
EPA 13	N	10/13/2008	6866.23	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	
EPA 13	N	1/20/2009	6864.81	5.92	6.62	6560	472	800	157	13	73	4580 D	35	0.16	< 0.1	< 0.5	< 0.1	0.049	
EPA 13	N	4/14/2009	6865.01	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	
EPA 13	N	7/14/2009	6864.76	5.85	6.5	7010	478	784	135	13	52	4760 D	41	0.25	< 0.1	< 0.50	0.2	0.02	
EPA 13	N	10/13/2009	6864.96	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	
EPA 13	N	1/12/2010	6864.51	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	
EPA 13	N	4/13/2010	6864.66	6.02	6.17	6740 D	496	844	151	13	66	4910 D	43	0.41	< 0.1	< 0.50	< 0.1	0.036	
EPA 13	N	7/20/2010	6864.46	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	
EPA 13	N	10/11/2010	6864.76	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	
EPA 13	N	1/11/2011	6864.227	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	
EPA 13	N	4/11/2011	6864.157	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	
EPA 13	N	7/19/2011	6864.157	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	
EPA 13	N	10/10/2011	6863.297	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	
EPA 13	N	1/10/2012	6864.11	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	
EPA 13	N	4/9/2012	6862.94	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	
EPA 13	N	7/16/2012	6863.91	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	
EPA 13	N	10/15/2012	6863.86	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	
EPA 14	N	7/28/1989	6895.90	6.00	5.82	3189	471	245	149	4.5	146	2111	26.8	0.08	16.9	< 1	0.79	< 0.001	
EPA 14	N	10/8/1989	6891.10	5.40	6.00	3672	407	281	163	6.1	99.3	2370	31.9	0.09	18.8	< 1	1.1	< 0.001	
EPA 14	N	1/17/1990	6889.50	5.60	6.11	3446	424	275	155	4.6	159	2099	29.4	0.08	16.8	< 1	0.67	< 0.001	
EPA 14	N	4/18/1990	6888.20	5.70	6.15	3529	430	240	140	3.4	176	2088	28.7	0.15	19	< 1	0.52	< 0.001	



**TABLE B.1**  
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 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
NRC Standard			0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	5	5	1	15
EPA Standard			0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	15
EPA 13	N	1/14/2004	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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
EPA 13	N	1/10/2012	< 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	< 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	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	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 14	N	7/28/1989	< 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	< 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	< 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	< 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

**TABLE B.1**  
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 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As	
			Elevation	pH	pH	TDS	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
			ft amsl	SU	SU	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05	
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05	
EPA 14	N	7/12/1990	6886.60	5.80	6.12	3559	486	281	146	5.2	173	2067	30.1	< 0.05	21.2	< 1	0.68	< 0.001	
EPA 14	N	10/10/1990	6886.80	5.70	6.43	3541	380	251	153	5.9	189	2079	33.3	0.07	20.8	< 1	0.5	< 0.001	
EPA 14	N	1/8/1991	6886.50	5.70	6.35	3499	462	266	152	22	185	2222	31.8	< 0.05	24.6	< 1	0.54	< 0.001	
EPA 14	N	4/16/1991	6886.90	5.60	6.80	3738	436	321	177	4.3	143	2380	34.8	0.07	27.5	< 1	0.86	< 0.001	
EPA 14	N	7/3/1991	6883.90	5.30	6.25	3774	421	313	158	4	102	2558	35.7	0.08	28.9	< 1	1.06	< 0.001	
EPA 14	N	10/22/1991	6875.10	5.70	6.35	3296	424	229	148	4.1	234	2117	37.6	0.09	9.2	< 1	0.31	< 0.001	
EPA 14	N	1/23/1992	6880.20	5.50	6.16	4045	414	296	163	4.5	115	2463	39.1	< 0.05	14	< 1	1	< 0.001	
EPA 14	N	4/2/1992	6880.20	5.40	7.09	4058	464	338	213	6	126	2607	33.6	0.18	27.4	< 1	1	< 0.001	
EPA 14	N	7/16/1992	6870.30	6.20	6.28	3186	393	333	183	6.3	316	2306	30.5	0.07	23.3	< 1	0.45	< 0.001	
EPA 14	N	10/15/1992	6870.60	6.10	6.38	3753	491	276	179	6	159	2332	32.8	< 0.05	24.2	< 1	0.73	< 0.001	
EPA 14	N	1/14/1993	6875.30	5.90	6.47	3728	485	256	156	4.4	142	2456	35.5	0.12	26.5	< 1	0.59	0.002	
EPA 14	N	4/15/1993	6872.20	5.90	6.54	3401	420	217	164	3.4	180	2096	32.2	0.17	27.1	< 1	0.4	< 0.001	
EPA 14	N	7/20/1993	6866.90	6.50	7.46	3350	444	285	122	3.4	370	2197	28.9	0.14	14.9	< 1	< 0.1	< 0.001	
EPA 14	N	10/11/1993	6865.60	6.50	6.49	3272	503	185	137	3.5	220	1936	29.6	0.05	25.7	< 1	0.4	< 0.001	
EPA 14	N	1/11/1994	6871.00	5.70	6.49	3409	446	270	158	3.5	96.8	2285	37.9	< 0.05	31.9	< 1	0.88	< 0.001	
EPA 14	N	4/19/1994	6868.40	6.20	6.54	2743	450	141	144	5	250	1654	27.3	0.18	16.9	< 1	0.36	< 0.001	
EPA 14	N	7/26/1994	6866.10	6.30	7.04	2710	505	151	115	3.6	284	1732	25.6	0.2	9.94	< 1	0.31	< 0.001	
EPA 14	N	10/11/1994	6866.10	6.30	7.05	3074	500	148	146	4.6	299	1776	26.9	0.25	23.5	< 1	0.53	< 0.001	
EPA 14	N	1/10/1995	6867.80	6.00	6.60	3516	545	211	154	6.6	121	2309	35.8	0.48	33	< 1	1.25	< 0.001	
EPA 14	N	4/10/1995	6867.60	6.10	6.01	4051	511	284	160	5.63	104	2570	43.7	0.57	40	< 1	1.68	< 0.001	
EPA 14	N	7/10/1995	6863.40	6.20	7.62	2659	500	108	124	4.6	465	1456	26.2	0.21	18.6	< 1	< 0.1	< 0.001	
EPA 14	N	10/9/1995	6863.60	6.60	7.44	2864	510	135	118	4.9	439	1530	25.7	0.16	22.4	< 1	0.18	0.001	
EPA 14	N	1/8/1996	6861.80	6.50	7.27	2773	525	103	120	4.7	490	1440	26	< 0.05	24.6	< 1	< 0.1	< 0.001	
EPA 14	N	4/9/1996	6861.20	6.80	7.75	2825	551	109	121	5.1	516	1468	30	0.12	23.9	< 1	< 0.1	< 0.001	
EPA 14	N	7/17/1996	6861.00	6.50	6.91	2907	532	116	132	5.6	498	1616	35	0.13	23.8	< 1	< 0.1	< 0.001	
EPA 14	N	10/8/1996	6861.10	6.50	7.24	2900	610	143	137	5.9	511	1589	33	0.11	23.9	< 1	< 0.1	< 0.001	
EPA 14	N	1/28/1997	6861.60	6.50	7.71	3200	580	170	120	5.51	459	1927	48	0.05	26.7	< 1	< 0.1	< 0.001	
EPA 14	N	4/14/1997	6861.90	6.50	7.45	3000	641	134	124	5.6	584	1612	42.3	0.06	22.9	1	< 0.1	< 0.001	
EPA 14	N	7/14/1997	6858.50	6.50	7.35	3160	632	148	116	5.7	627	1640	48.9	0.08	25.7	< 1	< 0.1	0.001	
EPA 14	N	10/14/1997	6859.10	6.60	7.75	3280	677	165	127	6.1	616	1750	60.5	0.13	26.2	< 1	< 0.1	< 0.001	
EPA 14	N	1/19/1998	6863.50	6.30	7.66	3720	600	234	147	7.7	442	2150	52.8	0.4	33.2	< 1	< 0.1	< 0.001	
EPA 14	N	4/13/1998	6858.00	6.70	7.36	3310	682	157	121	6	688	1630	53.3	0.11	26.4	< 1	< 0.1	< 0.001	
EPA 14	N	7/13/1998	6857.40	6.70	7.62	3560	664	164	132	7	715	1600	56.9	0.11	25.2	< 1	< 0.1	< 0.001	
EPA 14	N	10/13/1998	6861.20	6.66	8.17	3810	626	247	149	7.9	527	2120	54.8	0.34	29.8	< 1	< 0.1	< 0.001	
EPA 14	N	1/12/1999	6858.10	6.70	7.72	3690	622	212	124	6.7	570	1900	56.2	0.44	28.1	< 1	< 0.1	< 0.001	
EPA 14	N	4/13/1999	6857.80	6.60	7.93	3690	656	191	130	7.7	647	1820	70.2	1.08	33.9	< 1	< 0.1	0.002	
EPA 14	N	7/20/1999	6857.41	6.20	7.94	3730	683	217	124	9.6	667	1900	70	2.07	31.3	< 1	< 0.1	0.004	
EPA 14	N	10/12/1999	6857.40	6.54	7.68	3700	669	191	122	7.9	746	1630	71.2	2.01	32.3	< 1	< 0.1	< 0.001	
EPA 14	N	1/11/2000	6857.10	6.50	7.73	3790	599	211	121	8.6	650	1820	60.9	1.85	32.4	< 1	0.17	< 0.001	
EPA 14	N	5/2/2000	6857.40	6.40	7.56	3800	590	200	126	8.6	627	1880	60.5	1.83	34.4	< 1	8.3	< 0.001	



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
<b>NRC Standard</b>			<b>0.05</b>	<b>0.01</b>	<b>NA</b>	<b>0.05</b>	<b>NA</b>	<b>NA</b>	<b>0.05</b>	<b>0.01</b>	<b>0.1</b>	<b>0.3</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>15</b>
<b>EPA Standard</b>			<b>0.017</b>	<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>2.6</b>	<b>1</b>	<b>0.2</b>	<b>0.01</b>	<b>0.7</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>15</b>
EPA 14	N	7/12/1990	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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
EPA 14	N	7/17/1996	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As		
			Elevation	pH	pH											as N	as N	(Chloroform)		
			ft amsl	SU	SU	mg/l	mg/l	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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05		
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05		
EPA 14	N	7/12/2000	6859.30	6.94	7.11	4410	563	368	161	8.65	239	2560	53.1	0.56	23	< 1	11.6	0.002		
EPA 14	N	10/9/2000	6861.00	7.09	7.26	4440	543	423	163	9.5	153	3210	44.2	0.35	19.3	< 1	8.13	< 0.001		
EPA 14	N	1/15/2001	6860.50	6.08	6.55	4550	507	379	155	9.3	113	3110	55.2	0.23	19.9	< 1	23.7	< 0.001		
EPA 14	N	4/2/2001	6860.70	5.90	6.89	4570	570	439	153	8.3	104	2990	52.6	0.43	18.1	< 1	13	< 0.001		
EPA 14	N	7/10/2001	6860.40	5.79	4.10	6810	491	476	201	7.1	< 0.1	4080	78.7	91.3	15.7	< 1	188	< 0.001		
EPA 14	N	10/8/2001	6860.35	6.60	6.60	4780	480	390	145	9.1	83.6	2500	62	0.4	14	< 1	16.6	< 0.001		
EPA 14	N	1/9/2002	6860.20	7.36	6.70	4680	532	414	139	11	83	2970	74	0.6	13.6	< 1	36.2	< 0.001		
EPA 14	N	4/3/2002	6860.40	5.97	7.46	4800	566	434	171	10.5	79.9	3190	61.6	0.7	13.3	< 1	18.6	< 0.001		
EPA 14	N	7/16/2002	6859.80	5.92	7.04	4830	606	466	160	9.4	95.8	3390	50.6	1.96	14	< 1	19.2	< 0.001		
EPA 14	N	10/14/2002	6859.40	6.82	7.30	4160	560	425	165	9.6	130	3080	52.2	2.85	13.9	< 1	21.6	< 0.001		
EPA 14	N	1/7/2003	6858.66	6.91	6.88	4730	452	347	147	8.8	140	2410	41.9	3.25	14.9	< 1	26	< 0.001		
EPA 14	N	4/8/2003	6858.37	5.90	6.79	4800	516	397	184	12.4	132	3020	55.1	2.65	14.1	< 1	19.4	< 0.001		
EPA 14	N	7/8/2003	6858.13	5.90	6.82	4840	575	401	172	10.8	113	3000	54.5	4.5	14.1	< 1	< 0.1	< 0.001		
EPA 14	N	10/13/2003	6857.56	5.94	7.07	4740	556	434	174	10.1	104	3150	52.9	3.17	15.7	< 1	54.4	< 0.001		
EPA 14	N	1/12/2004	6857.21	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		
EPA 14	N	4/6/2004	6856.84	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		
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		
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		
EPA 14	N	7/13/2004	6856.29	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		
EPA 14	N	10/5/2004	6856.01	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		
EPA 14	N	1/10/2005	6856.11	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		
EPA 14	N	4/11/2005	6854.48	no data	6.21	4570	617	398	176	10.5	168	3050	62	7.9	19.4	< 1.0	105	0.003		
EPA 14	N	7/18/2005	6853.66	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		
EPA 14	N	10/10/2005	6853.01	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		
EPA 14	N	1/16/2006	6852.62	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		
EPA 14	N	4/10/2006	6853.48	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		
EPA 14	N	7/18/2006	6851.96	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		
EPA 14	N	10/10/2006	6851.39	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		
EPA 14	N	1/23/2007	6850.61	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		
EPA 14	N	4/10/2007	6850.35	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		
EPA 14	N	7/16/2007	6849.86	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		
EPA 14	N	10/9/2007	6849.38	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		
EPA 14	N	1/22/2008	6848.85	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		
EPA 14	N	4/15/2008	6848.61	4.2	4.07	6650	482	615	187 D	12.6	< 1	5260 D	77	91.2 D	27.9	3	137	< 0.001		
EPA 14	N	7/15/2008	6848.11	4.27	4.25	6740	457	566	174 D	13	< 1	4520 D	58	78.9 D	19.3	3.07	177	< 0.003		
EPA 14	N	10/14/2008	6847.51	4.20	4.27	6690	478	553	182 D	14	< 1	4740 D	76	75.9 D	17.8	3	119	< 0.001		
EPA 14	N	1/13/2009	6847.61	4.28	4.28	6620	441	522	188	10	< 1	3600 D	56	78 D	20.6	< 0.5	124	< 0.001		
EPA 14	N	4/7/2009	6847.36	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		
EPA 14	N	7/7/2009	6847.16	4.07	4.22	6190	482	503	172	11	< 1	4130 D	67	50 D	15.5 D	0.5	94.2	< 0.001		
EPA 14	N	10/6/2009	6846.61	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		



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha		
			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	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	5	5	5	NA	NA
EPA Standard	0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	NA	NA	15		
EPA 14	N	7/12/2000	< 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	< 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	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	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	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	< 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	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	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	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	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	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	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	< 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	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	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	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	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	< 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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	< 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		

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
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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
			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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
EPA 14	N	1/5/2010	6846.66	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
EPA 14	N	4/6/2010	6846.31	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
EPA 14	N	7/13/2010	6845.71	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
EPA 14	N	10/5/2010	6846.11	4.26	4.33	6610 D	474	556	176	12	<5	4450 D	58 D	44 D	22 D	1.01	105	0.001
EPA 14	N	1/5/2011	6845.61	4.56	4.33	6240 D	479	568	174	12	<5	4620 D	65 D	50 D	21 D	2.24	105	<0.001
EPA 14	N	4/6/2011	6845.41	4.37	4.38	6560 D	477	576	187	12	<5	4930 D	66 D	50 D	30 D	2.05	124	<0.001
EPA 14	N	7/12/2011	6845.03	4.26	4.2	6610 D	496	592	188	11	<5	4880 D	68 D	47 D	28 D	1.02	138	<0.001
EPA 14	N	10/4/2011	6844.71	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
EPA 14	N	1/3/2012	6844.41	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
EPA 14	N	4/3/2012	6843.93	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
EPA 14	N	7/10/2012	6843.56	4.21	4.31 H	5960 D	482	535	174	12	<5	4320 D	63 D	29 D	23 D	1.81	83.8	<0.001
EPA 14	N	10/9/2012	6843.26	4.29	4.24 H	6080 D	470	480	170	12	<5	4090 D	61 D	24 D	12 D	0.66	70.8	<0.001
EPA 15	N	7/29/1989	6890.20	6.50	6.35	2567	432	145	119	4.8	288	1487	18.4	0.09	13.2	< 1	< 0.1	< 0.001
EPA 15	N	10/8/1989	6883.50	6.00	6.58	2244	380	120	110	7	302	1319	15	0.1	7.4	< 1	< 0.1	< 0.001
EPA 15	N	1/16/1990	6881.50	5.90	6.48	2524	369	139	116	5.75	302	1499	18.3	0.19	5.9	< 1	< 0.1	< 0.001
EPA 15	N	4/18/1990	6880.30	6.10	6.56	2532	381	140	117	5.6	322	1419	17.6	0.21	7.8	< 1	< 0.1	0.001
EPA 15	N	7/10/1990	6879.10	6.20	6.60	2586	392	146	113	5.1	311	1475	18.6	0.07	8.92	< 1	< 0.1	< 0.001
EPA 15	N	10/10/1990	6879.80	6.40	6.75	2548	374	143	118	6	303	1412	18.5	0.11	9.55	< 1	< 0.1	< 0.001
EPA 15	N	1/10/1991	6878.80	6.30	7.05	2359	397	142	113	7.1	316	1347	19.1	0.07	10.4	< 1	< 0.1	< 0.001
EPA 15	N	4/16/1991	6879.20	6.20	7.08	2429	382	135	130	6.1	336	1360	18.8	0.1	16.1	< 1	< 0.1	< 0.001
EPA 15	N	7/3/1991	6876.00	6.40	6.86	2548	384	149	114	5.2	325	1565	21.9	0.11	15.6	< 1	< 0.1	< 0.001
EPA 15	N	10/23/1991	6871.10	6.20	7.03	2873	401	176	134	6	278	1789	31.6	0.44	24.8	< 1	< 0.1	< 0.001
EPA 15	N	1/23/1992	6873.50	6.10	6.93	2603	368	175	122	6.3	292	1588	21.2	0.19	11.1	< 1	< 0.1	< 0.001
EPA 15	N	4/2/1992	6873.80	6.10	7.60	2809	413	209	166	8.4	312	1753	23.7	0.31	15	< 1	< 0.1	< 0.001
EPA 15	N	7/16/1992	6866.90	6.10	6.84	3214	462	262	156	7.8	246	2206	32.5	0.37	12.7	< 1	< 0.1	0.002
EPA 15	N	10/15/1992	6866.20	6.00	6.61	4002	525	263	167	10	237	2451	32.6	0.27	17.3	< 1	< 0.1	0.003
EPA 15	N	1/13/1993	6869.00	6.20	6.75	2950	459	181	124	8.2	287	1748	26.8	0.19	11	< 1	< 0.1	< 0.001
EPA 15	N	4/15/1993	6869.40	6.30	6.94	2816	471	150	132	5	322	1666	23.6	0.15	13.3	< 1	< 0.1	0.001
EPA 15	N	7/20/1993	6864.60	6.30	6.93	3326	542	240	142	8.2	287	2133	30.8	0.06	27.5	< 1	< 0.1	0.001
EPA 15	N	10/12/1993	6860.70	6.40	6.34	4110	578	306	158	9	212	2766	41.3	1.27	17	< 1	< 0.1	< 0.001
EPA 15	N	1/11/1994	6864.20	6.50	7.00	3001	499	187	128	5.7	288	1774	28.5	< 0.05	12.8	< 1	< 0.1	< 0.001
EPA 15	N	4/19/1994	6863.90	6.40	6.63	2537	411	137	125	5.8	296	1537	22.6	0.19	9.5	< 1	< 0.1	0.002
EPA 15	N	7/26/1994	6862.20	6.20	7.43	4123	627	284	139	7.1	265	2390	31	0.46	33.2	< 1	< 0.1	< 0.001
EPA 15	N	10/11/1994	6861.60	6.10	6.94	4502	640	342	163	9.6	214	3049	39	3.12	31.5	< 1	0.3	< 0.001
EPA 15	N	1/10/1995	6861.70	6.10	7.09	4144	665	204	133	8.5	244	2567	36.5	1	37.2	< 1	< 0.1	< 0.001
EPA 15	N	4/11/1995	6861.90	6.40	6.51	4187	674	302	136	7.6	262	2542	19.9	1.09	44.4	< 1	< 0.1	< 0.001
EPA 15	N	7/11/1995	6860.30	5.60	5.87	4169	585	359	144	9.9	24.5	2833	44.5	0.78	29.5	< 1	5.65	< 0.001
EPA 15	N	10/10/1995	6859.70	5.50	5.82	4153	585	370	162	10.6	23.2	2961	40	5.86	24.3	1.56	5.67	0.001
EPA 15	N	1/8/1996	6858.50	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
EPA 17	N	7/20/1989	6886.60	6.40	6.11	6709	501	785	167	13.3	159	4674	35.6	1.22	0.13	< 1	0.18	0.224



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
<b>NRC Standard</b>			<b>0.05</b>	<b>0.01</b>	<b>NA</b>	<b>0.05</b>	<b>NA</b>	<b>NA</b>	<b>0.05</b>	<b>0.01</b>	<b>0.1</b>	<b>0.3</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>15</b>
<b>EPA Standard</b>			<b>0.017</b>	<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>2.6</b>	<b>1</b>	<b>0.2</b>	<b>0.01</b>	<b>0.7</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>15</b>
EPA 14	N	1/5/2010	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	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	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	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
EPA 14	N	1/5/2011	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	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	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	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	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	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	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	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 15	N	7/29/1989	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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
EPA 15	N	7/11/1995	<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	<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	no data	no data	no data	no data	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	<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

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As	
			Elevation	pH	pH											as N	as N	(Chloroform)	
NRC Standard			ft amsl	SU	SU	mg/l	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
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05	0.05
EPA 17	N	10/8/1989	6887.00	6.40	6.50	6714	491	829	160	12	154	4526	35.3	0.59	0.06	< 1	< 0.1	0.253	
EPA 17	N	1/10/1990	6886.30	6.30	6.48	6822	491	844	158	13.1	162	4440	34.3	0.57	0.14	< 1	0.16	0.133	
EPA 17	N	4/10/1990	6886.20	6.30	6.30	6855	495	830	153	12.4	151	4333	33.9	0.67	0.21	< 1	< 0.1	0.14	
EPA 17	N	7/10/1990	6886.00	6.10	6.50	6930	493	807	154	13.8	159	4467	33.6	0.29	0.53	< 1	0.14	0.019	
EPA 17	N	10/9/1990	6885.90	6.30	6.77	6854	465	812	162	13.4	135	4232	32.2	0.22	0.07	< 1	< 0.1	0.054	
EPA 17	N	1/11/1991	6885.60	6.20	6.30	6678	511	795	160	14.6	122	4489	36.9	0.57	0.14	< 1	< 0.1	0.022	
EPA 17	N	4/10/1991	6885.40	6.30	6.90	6751	545	758	156	12.3	143	4007	34.8	0.45	0.11	< 1	0.36	0.007	
EPA 17	N	7/9/1991	6885.10	6.30	6.46	6742	563	712	139	10.9	112	4385	33.5	0.68	< 0.01	< 1	0.26	0.002	
EPA 17	N	10/17/1991	6885.00	6.20	6.86	6749	514	676	155	14.1	159	4151	33.5	0.33	0.08	< 1	0.13	0.003	
EPA 17	N	1/21/1992	6884.70	6.30	6.66	6718	473	769	145	11.5	159	4556	37.5	0.33	< 0.1	< 1	< 0.1	0.005	
EPA 17	N	4/14/1992	6884.50	6.40	7.72	5908	441	528	157	12.5	255	3632	34.3	0.5	< 0.1	< 1	< 0.1	0.022	
EPA 18	N	7/25/1989	6884.40	5.70	5.46	5818	543	608	132	11.6	44	3974	27.1	0.46	0.08	< 1	< 0.1	0.008	
EPA 18	N	10/4/1989	6884.10	5.30	5.97	5742	513	604	113	12.6	49	3746	27.5	0.43	0.01	< 1	< 0.1	0.006	
EPA 18	N	1/16/1990	6883.30	5.20	5.46	5514	468	549	123	11.1	19.5	3654	25.4	0.5	0.06	< 1	< 0.1	0.004	
EPA 18	N	4/17/1990	6882.70	5.20	5.26	5585	464	520	122	10.5	10.2	3582	27	0.49	0.16	< 1	< 0.1	0.002	
EPA 18	N	7/17/1990	6881.90	5.40	5.68	5902	543	608	124	31.8	31.5	3513	26.4	0.27	0.07	< 1	0.2	0.012	
EPA 18	N	10/16/1990	6881.30	5.40	5.93	5925	508	588	139	11	26	3880	32.2	0.39	0.04	< 1	0.1	0.015	
EPA 18	N	1/8/1991	6880.60	5.10	5.25	5905	518	647	129	18	12	3917	28.3	0.53	< 0.01	< 1	0.61	0.001	
EPA 18	N	4/16/1991	6880.30	5.00	5.50	5946	551	712	144	10.6	10	3916	34.1	0.48	< 0.01	< 1	< 0.1	0.001	
EPA 18	N	7/3/1991	6879.90	5.30	5.97	6159	577	698	129	9.4	36	4215	15.8	0.64	0.01	< 1	0.66	0.024	
EPA 18	N	10/22/1991	6879.60	5.40	5.81	6202	484	722	139	10.6	69	4235	38.3	0.61	0.02	< 1	0.34	0.019	
EPA 18	N	1/22/1992	6879.00	5.60	6.00	6396	484	657	135	10.4	36.8	4267	29.4	0.61	< 0.01	< 1	0.27	0.014	
EPA 18	N	4/2/1992	6878.80	5.50	7.16	5799	508	660	167	13.1	75.1	4351	38.3	0.67	< 0.01	< 1	< 0.1	0.014	
EPA 18	N	7/15/1992	6877.70	5.50	6.09	6375	492	686	131	11.5	8	4196	29.7	0.25	0.1	< 1	< 0.1	0.003	
EPA 18	N	10/14/1992	6877.20	5.30	5.38	6100	480	624	132	11.3	12.2	4126	30.5	0.32	< 0.1	< 1	0.18	0.002	
EPA 18	N	1/14/1993	6877.90	5.20	5.74	5947	455	609	137	9.9	16.8	4187	30.9	0.69	< 0.1	< 1	< 0.1	< 0.001	
EPA 18	N	4/15/1993	6877.80	5.30	5.79	6132	414	694	152	9.8	18.1	3999	31.2	0.51	0.2	< 1	< 0.1	0.001	
EPA 18	N	7/20/1993	6876.50	5.30	5.75	5982	489	705	147	10.4	12.3	4215	31.9	0.32	< 0.1	< 1	< 0.1	< 0.001	
EPA 18	N	10/12/1993	6873.80	5.80	5.44	5825	473	690	135	10.5	18	4264	28.9	0.39	< 0.1	< 1	< 0.1	< 0.001	
EPA 18	N	1/11/1994	6875.60	5.70	6.22	6038	453	707	134	10.2	20.3	4228	29.5	0.46	< 0.1	< 1	< 0.1	< 0.001	
EPA 18	N	4/20/1994	6874.90	5.50	6.00	5622	458	683	125	9.8	15.3	4196	33	1.09	< 0.1	< 1	< 0.1	< 0.001	
EPA 18	N	7/26/1994	6875.90	5.70	6.69	5618	525	682	149	11.3	17.7	4106	30.7	0.46	< 0.1	< 1	< 0.1	< 0.001	
EPA 18	N	10/11/1994	6874.50	5.80	6.55	6374	456	764	157	11.4	22.4	4604	33.7	0.75	< 0.1	< 1	< 0.1	< 0.001	
MW-6	N	7/19/2011	6801.44	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	
MW-6	N	10/11/2011	6801.57	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	
MW-6	N	1/10/2012	6801.19	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	
MW-6	N	4/10/2012	6800.64	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	
MW-6	N	7/17/2012	6798.79	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	
MW-6	N	10/17/2012	6797.49	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	
MW-7	N	7/19/2011	6802.12	7.46	7.68	3660	640	167	155	6	542	2030 D	52 D	0.45	<0.5	<0.50	<0.1	0.044	



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
<b>NRC Standard</b>			<b>0.05</b>	<b>0.01</b>	<b>NA</b>	<b>0.05</b>	<b>NA</b>	<b>NA</b>	<b>0.05</b>	<b>0.01</b>	<b>0.1</b>	<b>0.3</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>15</b>
<b>EPA Standard</b>			<b>0.017</b>	<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>2.6</b>	<b>1</b>	<b>0.2</b>	<b>0.01</b>	<b>0.7</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>15</b>
EPA 17	N	10/8/1989	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	< 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	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	0	no data	no data	no data
MW-6	N	1/10/2012	no data	no data	no data	no data	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	no data	no data	no data	no data	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	< 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	< 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-7	N	7/19/2011	< 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

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As		
			Elevation	pH	pH											as N	as N	(Chloroform)		
			ft amsl	SU	SU	mg/l	mg/l	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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05		
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05		
MW-7	N	10/11/2011	6802.03	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		
MW-7	N	1/10/2012	6801.66	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		
MW-7	N	4/10/2012	6801.32	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		
MW-7	N	7/17/2012	6799.72	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		
MW-7	N	10/16/2012	6799.12	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		
NBL-01	N	8/15/2001	6820.10	6.61	6.90	3220	550	162	116	6.83	343	1730	36.8	0.41	< 0.1	< 1	< 0.1	0.57		
NBL-01	N	10/3/2001	6819.89	6.70	7.50	3160	550	150	100	7	346	1680	40	0.29	< 0.1	< 1	< 0.1	0.714		
NBL-01	N	1/7/2002	6819.70	7.25	7.00	3110	564	158	115	7	342	1840	36	0.26	< 0.1	< 1	< 0.1	0.613		
NBL-01	N	4/17/2002	6819.90	6.25	7.66	3220	542	167	113	6.8	336	1780	37.9	0.29	< 0.1	< 1	< 0.1	0.768		
NBL-01	N	7/15/2002	6819.65	6.65	7.68	3310	516	185	123	7.1	339	1810	26	0.43	< 0.1	< 1	< 0.1	0.728		
NBL-01	N	10/15/2002	6819.54	7.18	7.48	3120	631	176	121	6.3	330	2070	31.4	0.45	< 0.1	< 1	< 0.1	0.776		
NBL-01	N	1/15/2003	6819.49	6.43	7.29	3290	620	178	101	5.1	335	1930	20.1	0.47	< 0.1	< 1	< 0.1	0.955		
NBL-01	N	4/14/2003	6819.35	6.87	7.14	3360	566	168	125	7.6	338	1960	35	0.48	< 0.1	< 1	< 0.1	0.688		
NBL-01	N	7/14/2003	6819.01	6.29	7.40	3460	598	170	119	7.5	334	1880	32.2	0.45	< 0.1	< 1	< 0.1	0.538		
NBL-01	N	10/13/2003	6818.89	6.37	7.21	3480	567	170	128	6.7	332	1940	27.7	0.42	< 0.1	< 1	0.3	1.01		
NBL-01	N	1/13/2004	6818.51	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		
NBL-01	N	4/12/2004	6818.46	6.34	6.70	3690	658	203	122	8	308	2340	36.5	0.51	< 0.1	< 1	< 0.1	0.807 D		
NBL-01	N	7/19/2004	6818.09	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		
NBL-01	N	10/11/2004	6817.97	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		
NBL-01	N	1/10/2005	6817.55	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		
NBL-01	N	4/12/2005	6816.96	6.31	6.55	3980	652	294	141	7.4	169	2740	36	0.82	< 0.1	< 1.0	< 0.1	0.63		
NBL-01	N	7/18/2005	6816.06	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		
NBL-01	N	10/10/2005	6814.93	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		
NBL-01	N	1/16/2006	6813.81	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		
NBL-01	N	4/10/2006	6813.01	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		
NBL-01	N	7/24/2006	6812.34	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		
NBL-01	N	10/9/2006	6811.92	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		
NBL-01	N	1/16/2007	6811.24	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		
NBL-01	N	4/17/2007	6810.72	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		
NBL-01	N	7/17/2007	6810.19	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		
NBL-01	N	10/9/2007	6809.65	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		
NBL-01	N	1/22/2008	6809.00	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		
NBL-01	N	4/15/2008	6808.74	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		
NBL-01	N	7/15/2008	6808.14	6.33	6.66	4040	543	245	135 D	12	246	2490 D	50	4.25	< 0.1	< 0.5	0.1	0.052		
NBL-01	N	10/14/2008	6806.89	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		
NBL-01	N	1/20/2009	6809.46	6.24	7.38	4060	591	263	150	12	266	2290 D	35	1.99	< 0.1	< 0.5	0.2	0.081		
NBL-01	N	4/14/2009	6809.46	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		
NBL-01	N	7/14/2009	6808.18	7.16	7.49	4220	613	253	140	13	172	2510 D	54	4.43	< 0.1	< 0.50	1.5 D	< 0.001		
NBL-01	N	10/13/2009	6807.65	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		
NBL-01	N	1/12/2010	6807.41	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		



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
<b>NRC Standard</b>			<b>0.05</b>	<b>0.01</b>	<b>NA</b>	<b>0.05</b>	<b>NA</b>	<b>NA</b>	<b>0.05</b>	<b>0.01</b>	<b>0.1</b>	<b>0.3</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>15</b>
<b>EPA Standard</b>			<b>0.017</b>	<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>2.6</b>	<b>1</b>	<b>0.2</b>	<b>0.01</b>	<b>0.7</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>15</b>
MW-7	N	10/11/2011	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	no data	0	no data	no data	no data
MW-7	N	1/10/2012	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	<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
NBL-01	N	8/15/2001	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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
NBL-01	N	10/13/2009	<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	<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



**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As		
			Elevation	pH	pH											as N	as N	(Chloroform)		
			ft amsl	SU	SU	mg/l	mg/l	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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05		
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05		
NBL-01	N	4/13/2010	6807.11	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		
NBL-01	N	7/20/2010	6806.72	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		
NBL-01	N	10/12/2010	6806.47	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		
NBL-01	N	1/11/2011	no data	no data	4.81	3790	568	258	127	11	<5	2730 D	36 D	4.8 D	<0.1	3.44	13	0.10 D		
NBL-01	DUP	1/11/2011	6806.108	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		
NBL-01	N	4/11/2011	6805.758	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		
NBL-01	DUP	4/12/2011	6805.908	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		
NBL-01	N	7/19/2011	6805.428	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		
NBL-01	N	10/11/2011	6805.158	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		
NBL-01	N	1/10/2012	6804.81	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		
NBL-01	N	4/10/2012	6804.35	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		
NBL-01	N	7/17/2012	6803.72	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		
NBL-01	N	10/16/2012	6803.16	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		
NBL-02	N	1/22/2008	6820.46	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		
NBL-02	N	4/15/2008	6820.31	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		
NBL-02	N	7/15/2008	6819.56	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		
NBL-02	N	10/14/2008	6819.03	6.54	6.74	3500	647	180	154 D	7	320	2320 D	39	<0.1	19.9	<0.5	<0.1	<0.001		
NBL-02	N	1/20/2009	6818.51	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		
NBL-02	N	4/14/2009	6818.31	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		
NBL-02	N	7/14/2009	6817.66	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		
NBL-02	N	10/13/2009	6817.26	6.41	7.19	3550 H	620	183	144	7	345	2100 D	49	<0.05	19.4	<0.50	<0.1	<0.001		
NBL-02	N	1/12/2010	6817.21	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		
NBL-02	N	4/13/2010	6816.96	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		
NBL-02	N	7/20/2010	6816.36	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		
NBL-02	N	10/12/2010	6816.06	6.59	7.31	3640	610	184	155	7	411	2140 D	46 D	<0.05	17 D	<0.50	<0.1	<0.001		
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		
NBL-02	N	4/12/2011	6815.21	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		
NBL-02	N	7/19/2011	6814.61	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		
NBL-02	N	10/10/2011	6814.36	6.8	7.56	3470	609	181	154	8	386	2160 D	53 D	<0.2	12 D	<0.50	<0.1	0.004		
NBL-02	N	1/10/2012	6813.91	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		
NBL-02	N	4/10/2012	6813.31	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		
NBL-02	N	7/17/2012	6812.86	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		
NBL-02	N	10/16/2012	6812.46	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		
NW-1	N	7/14/2009	6800.55	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		
NW-1	N	10/13/2009	6798.30	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		
NW-1	N	1/13/2010	6798.86	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		
NW-1	N	4/14/2010	6800.85	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		
NW-1	N	7/21/2010	6798.11	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		
NW-1	N	10/13/2010	6797.11	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		
NW-1	N	1/12/2011	6797.36	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		

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha		
			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	0.05	0.01	NA	0.05	NA	NA	0.05	0.01	0.1	0.3	NA	NA	5	5	NA	1	15
EPA Standard	0.017	0.01	0.05	0.05	2.6	1	0.2	0.01	0.7	5	NA	NA	5	NA	NA	NA	15			
NBL-01	N	4/13/2010	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	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	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	<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	<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	<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	<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	<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	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	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	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	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	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-02	N	1/22/2008	<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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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		
NW-1	N	7/14/2009	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As
			Elevation	pH	pH											as N	as N	(Chloroform)
NRC Standard			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
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
NW-1	N	4/13/2011	6796.46	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
NW-1	N	7/20/2011	6798.11	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
NW-1	N	10/11/2011	6801.36	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
NW-1	N	1/11/2012	6796.71	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
NW-1	N	4/10/2012	6796.51	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
NW-1	N	7/17/2012	6800.11	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
NW-1	N	10/16/2012	6799.11	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
NW-2	N	7/14/2009	6805.39	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
NW-2	N	10/13/2009	6804.01	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
NW-2	N	1/13/2010	6804.66	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
NW-2	N	4/14/2010	6804.21	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
NW-2	N	7/21/2010	6803.55	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
NW-2	N	10/13/2010	6801.85	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
NW-2	N	1/12/2011	6802.6	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
NW-2	N	4/13/2011	6800.67	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
NW-2	N	7/20/2011	6800.9	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
NW-2	N	10/11/2011	6801.2	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
NW-2	N	1/11/2012	6801.30	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
NW-2	N	4/10/2012	6801.15	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
NW-2	N	7/17/2012	6797.71	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
NW-2	N	10/16/2012	6797.45	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
NW-3	N	7/14/2009	6807.82	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
NW-3	N	10/13/2009	6807.24	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
NW-3	N	1/12/2010	6807.02	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
NW-3	N	4/14/2010	6806.57	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
NW-3	N	7/21/2010	6806.19	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
NW-3	N	10/13/2010	6805.75	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
NW-3	N	1/12/2011	6804.94	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
NW-3	N	4/13/2011	6805.14	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
NW-3	N	7/20/2011	6804.79	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
NW-3	N	10/11/2011	6804.19	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
NW-3	N	1/11/2012	6804.14	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
NW-3	N	4/10/2012	6803.53	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
NW-3	N	7/17/2012	6802.84	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
NW-3	N	10/16/2012	6802.44	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
NW-4	N	7/14/2009	6805.53	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
NW-4	N	10/13/2009	6804.55	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
NW-4	N	1/13/2010	6796.18	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
NW-4	N	4/14/2010	6803.28	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
NW-4	N	7/21/2010	6799.41	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





**TABLE B.1**  
**Zone 3 Data Summary, 1989-2012**  
**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	
			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	
<b>NRC Standard</b>			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.05
<b>EPA Standard</b>			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05	
NW-4	N	10/13/2010	6800.01	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	
NW-4	N	1/12/2011	6789.76	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	
NW-4	N	4/13/2011	6791.85	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	
NW-4	N	7/20/2011	6798.66	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	
NW-4	N	10/11/2011	6801.01	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	
NW-4	N	1/11/2012	6801.16	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	
NW-4	N	4/10/2012	6800.91	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	
NW-4	N	7/17/2012	6798.06	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	
NW-4	N	10/16/2012	6794.76	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	
NW-5	N	7/14/2009	6808.35	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	
NW-5	N	10/13/2009	6807.70	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	
NW-5	N	1/12/2010	6807.30	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	
NW-5	N	4/14/2010	6807.15	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	
NW-5	N	7/21/2010	6806.36	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	
NW-5	N	10/13/2010	6806.18	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	
NW-5	N	1/12/2011	6805.96	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	
NW-5	N	4/13/2011	6805.26	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	
NW-5	N	7/20/2011	6805.31	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	
NW-5	N	10/11/2011	6804.66	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	
NW-5	N	1/11/2012	6804.66	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	
NW-5	N	4/10/2012	6804.05	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	
NW-5	N	7/17/2012	6803.31	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	
NW-5	N	10/16/2012	6802.81	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	
PB-02	N	1/22/2008	6811.31	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	
PB-02	N	4/15/2008	6809.26	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	
PB-02	N	7/15/2008	6809.46	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	
PB-02	N	10/14/2008	6808.53	5.74	6.18	4290	549	358	133 D	10	95	3140 D	26	2.4	< 0.1	< 0.5	0.4	0.003	
PB-02	N	1/20/2009	6810.60	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	
PB-02	N	4/14/2009	6809.65	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	
PB-02	N	7/14/2009	6809.60	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	
PB-02	N	10/13/2009	6808.70	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	
PB-02	N	1/12/2010	6804.25	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	
PB-02	N	4/13/2010	6807.35	5.42	5.7	4930 D	540	422	144	11	38	3470 DH	23	0.82	<0.1	<0.50	6.2	0.008	
PB-02	N	7/21/2010	6803.66	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	
PB-02	N	10/12/2010	6805.91	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	
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	
PB-02	N	4/13/2011	6805.848	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	
PB-02	N	7/20/2011	6806.248	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	
PB-02	N	10/11/2011	6805.598	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	

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
<b>NRC Standard</b>			<b>0.05</b>	<b>0.01</b>	<b>NA</b>	<b>0.05</b>	<b>NA</b>	<b>NA</b>	<b>0.05</b>	<b>0.01</b>	<b>0.1</b>	<b>0.3</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>15</b>
<b>EPA Standard</b>			<b>0.017</b>	<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>2.6</b>	<b>1</b>	<b>0.2</b>	<b>0.01</b>	<b>0.7</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>15</b>
NW-4	N	10/13/2010	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	< 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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	< 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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	<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	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<0.01	<0.005	0.52	<0.05	6.3	0.5	0.66	<0.001	<0.1	0.0632	15	15	no data	1.8	0.7 U	15.6

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 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
			ft amsl	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05
PB-02	N	1/11/2012	6805.40	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
PB-02	N	4/10/2012	6805.33	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
PB-02	N	7/17/2012	6804.90	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
PB-02	N	10/16/2012	6804.95	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
PB-03	N	1/22/2008	6812.51	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
PB-03	N	4/15/2008	6812.36	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
PB-03	N	7/15/2008	6811.71	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
PB-03	N	10/30/2008	6810.91	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
PB-03	N	1/20/2009	6810.53	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
PB-03	N	4/14/2009	6809.88	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
PB-03	N	7/14/2009	6809.03	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
PB-03	N	10/13/2009	6808.36	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
PB-03	N	1/12/2010	6808.08	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
PB-03	N	4/13/2010	6807.78	6.38	6.78	3690	536	237	130	10	231	2520 D	39	1.82	<0.1	<0.50	0.4	0.003
PB-03	N	7/20/2010	6807.35	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
PB-03	N	10/12/2010	6806.90	7.12	7.68	3540	546	239	134	10	272	2300 D	29 D	1.6	0.1	<0.50	0.3	<0.001
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
PB-03	N	4/13/2011	6806.38	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
PB-03	N	7/19/2011	6806.03	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
PB-03	N	10/11/2011	6805.77	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
PB-03	N	1/10/2012	6805.43	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
PB-03	N	4/10/2012	6804.98	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
PB-03	N	7/17/2012	6804.43	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
PB-03	N	10/16/2012	6803.95	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
PB-04	N	1/22/2008	6812.50	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
PB-04	N	4/15/2008	6812.39	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
PB-04	N	7/15/2008	6811.89	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
PB-04	N	1/20/2009	6810.73	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
PB-04	N	4/14/2009	6810.28	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
PB-04	N	7/14/2009	6809.98	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
PB-04	N	1/12/2010	6808.38	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
PB-04	N	4/13/2010	6808.28	2.95	3	4650 D	522	310	131	9	<5	3510 D	30	2.14	<0.1	<0.50	16.9	0.022
PB-04	N	7/20/2010	6807.84	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
PB-04	N	10/12/2010	6803.64	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
PB-04	N	4/13/2011	6806.56	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
PB-04	N	7/19/2011	6806.18	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

**TABLE B.1**  
**Zone 3 Data Summary, 1989-2012**  
**United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico**

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
<b>NRC Standard</b>			<b>0.05</b>	<b>0.01</b>	<b>NA</b>	<b>0.05</b>	<b>NA</b>	<b>NA</b>	<b>0.05</b>	<b>0.01</b>	<b>0.1</b>	<b>0.3</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>15</b>
<b>EPA Standard</b>			<b>0.017</b>	<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>2.6</b>	<b>1</b>	<b>0.2</b>	<b>0.01</b>	<b>0.7</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>15</b>
PB-02	N	1/11/2012	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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-03	N	1/22/2008	< 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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	< 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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	4/13/2010	<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	no data	no data	no data	no data	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	<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	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<0.01	<0.005	0.09	<0.05	4.07	0.4	0.13	<0.001	<0.1	0.192	7	4.6	no data	0.2 U	0.06 U	7.1
PB-03	N	1/10/2012	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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-04	N	1/22/2008	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Water	Field	Lab	Lab TDS	Ca	Mg	Na	K	HCO3	SO4	Chl	NH4	NO3	TTHMs	Al	As		
			Elevation	pH	pH											as N	as N	(Chloroform)		
			ft amsl	SU	SU	mg/l	mg/l	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
NRC Standard			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	0.05		
EPA Standard			NA	NA	NA	4800	NA	NA	NA	NA	NA	2125	250	NA	190	NA	5	0.05		
PB-04	N	10/11/2011	6806.04	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		
PB-04	N	4/10/2012	6805.18	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		
PB-04	N	7/17/2012	6804.63	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		
PB-04	N	10/16/2012	6804.35	2.55	2.50 H	8300	504	457	140 D	3	<5	6400 D	30 D	0.27	<2	<0.50	132	0.011		
RW-11	N	1/23/2008	6811.70	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		
RW-11	N	10/14/2008	6823.59	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		
RW-11	N	10/13/2009	6818.18	5.9	7.45	3800 H	547	259	130	10	238	2530 D	32	2.99	<0.1	<0.50	<0.1	<0.001		
RW-11	N	10/12/2010	6815.23	5.97	6.56	3970	561	278	144	10	242	2630 D	35 D	2.45	<0.1	<0.50	0.3	0.001		
RW-11	N	10/11/2011	6822.68	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		
RW-11	N	10/16/2012	6817.53	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		
RW-A	N	1/23/2008	6802.73	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		
RW-A	N	7/15/2008	6814.28	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		
RW-A	N	10/14/2008	6814.63	6.37	6.61	3740	608	223	136 D	9	327	2560 D	41	3	<0.1	<0.5	<0.1	<0.001		
RW-A	N	1/20/2009	6818.13	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		
RW-A	N	4/14/2009	6817.83	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		
RW-A	N	7/14/2009	6816.68	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		
RW-A	N	10/13/2009	6804.13	5.8	6.99	3950 H	607	254	135	10	281	2640 D	46	3.06	0.2	<0.50	<0.1	<0.001		
RW-A	N	1/12/2010	6809.18	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		
RW-A	N	4/14/2010	6811.13	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		
RW-A	N	7/21/2010	6799.48	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		
RW-A	N	10/12/2010	6808.53	5.99	7.48	3940	586	270	145	10	276	2640 D	35 D	4.74	<0.1	<0.50	<0.1	<0.001		
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		
RW-A	N	4/13/2011	6818.03	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		
RW-A	N	7/20/2011	6810.83	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		
RW-A	N	10/11/2011	6809.74	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		
RW-A	N	1/11/2012	6803.08	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		
RW-A	N	4/10/2012	6811.66	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		
RW-A	N	7/17/2012	6811.03	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		
RW-A	N	10/16/2012	6810.63	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		

**TABLE B.1**  
 Zone 3 Data Summary, 1989-2012  
 United Nuclear Corporation, Church Rock Site, Church Rock, New Mexico

Location ID	Desc	Sample Date	Be	Cd	Co	Pb	Mn	Mo	Ni	Se	V	U	Rad-226	Rad-228	Rad Total	Th-230	Pb-210	Gross Alpha
			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
<b>NRC Standard</b>			<b>0.05</b>	<b>0.01</b>	<b>NA</b>	<b>0.05</b>	<b>NA</b>	<b>NA</b>	<b>0.05</b>	<b>0.01</b>	<b>0.1</b>	<b>0.3</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>5</b>	<b>1</b>	<b>15</b>
<b>EPA Standard</b>			<b>0.017</b>	<b>0.01</b>	<b>0.05</b>	<b>0.05</b>	<b>2.6</b>	<b>1</b>	<b>0.2</b>	<b>0.01</b>	<b>0.7</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>5</b>	<b>NA</b>	<b>NA</b>	<b>15</b>
PB-04	N	10/11/2011	<0.01	<0.005	0.65	0.63	6.06	0.5	0.91	0.002	<0.1	0.239	13	9.5	no data	25.7	12.7	31.3
PB-04	N	4/10/2012	no data	no data	no data	no data	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	no data	no data	no data	no data	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	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
RW-11	N	1/23/2008	<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	<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	<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	<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	<0.01	<0.005	0.21	<0.05	4.68	0.1	0.24	<0.001	<0.1	0.134	9.6	13	no data	0.03 U	0.5 U	10.1
RW-11	N	10/16/2012	<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-A	N	1/23/2008	<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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<0.01	<0.005	0.25	<0.05	5.1	0.2	0.27	<0.001	<0.1	0.105	13	15	no data	0.008 U	0.4 U	13.6
RW-A	N	1/11/2012	no data	no data	no data	no data	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	no data	no data	no data	no data	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	no data	no data	no data	no data	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	<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

**Laboratory Analytical Data  
2012**

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Zone 3 Monitor Wells					
Well ID:		613	613	613	613
Collection Date:		10/9/2012	7/10/2012	4/3/2012	1/3/2012
Receive Date:		10/12/2012	7/13/2012	4/6/2012	1/6/2012
Report Date:		11/20/2012	8/30/2012	5/22/2012	3/2/2012
Analyte	RUnits	C12100571-001	C12070463-001	C12040277-001	C12010153-001
Bicarbonate as HCO3	mg/L	ND(5)	ND(5)	ND(5)	ND(5)
Calcium	mg/L	442	422	430	467
Chloride	mg/L	142	144	136	137
Magnesium	mg/L	693	697	639	714
Nitrogen, Ammonia as N	mg/L	206	202	166	199
Nitrogen, Nitrate+Nitrite as N	mg/L	3.4	5.2	5.3	4.5
Potassium	mg/L	1	ND(1)	ND(1)	2
Sodium	mg/L	248	249	207	262
Sulfate	mg/L	8630	8850	9200	9270
pH	s.u.	2.97	2.98	2.99	3.03
Solids, Total Dissolved TDS @ 180 C	mg/L	11900	12200	12200	12100
Aluminum	mg/L	566	616	604	590
Beryllium	mg/L	0.144	0.178	0.18	0.18
Cadmium	mg/L	0.036	0.041	0.034	0.036
Cobalt	mg/L	1.89	1.94	1.87	1.92
Lead	mg/L	0.007	0.006	ND(0.05)	ND(0.05)
Manganese	mg/L	51.1	52.2	53.8	53.9
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	1.90	1.78	1.90	1.60
Uranium	mg/L	0.989	1.04	1.03	0.979
Vanadium	mg/L	1.8	1.9	2.0	1.8
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	14.5	13.5	29.0	28.4
Gross Alpha minus Rn & U Precision (±)	pCi/L	1.1	1.0	1.7	1.6
Gross Alpha minus Rn & U MDC	pCi/L	0.3	0.3	0.4	0.4
Lead 210	pCi/L	2.4	0.6	0.5	0.7
Lead 210 precision (±)	pCi/L	0.7	0.7	0.6	0.6
Lead 210 MDC	pCi/L	1.0	1.1	1	1.1
Radium 226	pCi/L	13	8.6	3.6	27
Radium 226 precision (±)	pCi/L	0.85	0.58	0.56	1.0
Radium 226 MDC	pCi/L	0.23	0.16	0.32	0.17
Radium 228	pCi/L	2.0	22	2.3	0.62
Radium 228 precision (±)	pCi/L	1.5	1.7	1.5	1.4
Radium 228 MDC	pCi/L	2.4	1.5	2.4	2.3
Thorium 230	pCi/L	690	788	805	971
Thorium 230 precision (±)	pCi/L	112	131	144	188
Thorium 230 MDC	pCi/L	13.6	13.7	16.4	19.8
A/C Balance (± 5)	%	1.54	5.74	-4.68	-0.210
Anions	meq/L	185	190	196	197
Cations	meq/L	191	213	178	196
Solids, Total Dissolved Calculated	mg/L	10000	11000	10800	10900
TDS Balance (0.80 - 1.20)		1.14	1.15	1.13	1.11
Trihalomethanes, Total	ug/L	88.8	79.9	73.6	106

**\*\*Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the attached database reports.**

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Zone 3 Monitor Wells					
Well ID:		EPA-14	EPA-14	EPA-14	EPA-14
Collection Date:		10/9/2012	7/10/2012	4/3/2012	1/3/2012
Receive Date:		10/12/2012	7/13/2012	4/6/2012	1/6/2012
Report Date:		11/20/2012	8/30/2012	5/22/2012	3/2/2012
Analyte	RUnits	C12100571-002	C12070463-002	C12040277-002	C12010153-002
Bicarbonate as HCO <sub>3</sub>	mg/L	ND(5)	ND(5)	ND(5)	ND(5)
Calcium	mg/L	470	482	483	514
Chloride	mg/L	61	63	57	60
Magnesium	mg/L	480	535	481	566
Nitrogen, Ammonia as N	mg/L	24	29	30	36.0
Nitrogen, Nitrate+Nitrite as N	mg/L	12	23	18	21
Potassium	mg/L	12	12	12	13
Sodium	mg/L	170	174	169	177
Sulfate	mg/L	4090	4320	4330	4470
pH	s.u.	4.24	4.31	4.26	4.20
Solids, Total Dissolved TDS @ 180 C	mg/L	6080	5960	5930	6240
Aluminum	mg/L	70.8	83.8	84.4	97.3
Beryllium	mg/L	0.069	0.076	0.09	0.10
Cadmium	mg/L	0.010	ND(0.005)	0.010	0.010
Cobalt	mg/L	0.75	0.74	0.85	0.92
Lead	mg/L	0.006	0.007	ND(0.05)	ND(0.05)
Manganese	mg/L	15.1	14.9	16.7	17.3
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.71	0.68	0.82	0.83
Uranium	mg/L	0.0078	0.0099	0.0124	0.0145
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	4.8	6.4	13.5	7.5
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.6	0.7	1.2	0.8
Gross Alpha minus Rn & U MDC	pCi/L	0.3	0.3	0.4	0.4
Lead 210	pCi/L	1.5	1.6	1.6	1.4
Lead 210 precision (±)	pCi/L	0.7	0.8	0.6	0.7
Lead 210 MDC	pCi/L	1.0	1.2	1	1.1
Radium 226	pCi/L	8.1	6.1	6.8	8.2
Radium 226 precision (±)	pCi/L	0.55	0.45	0.47	0.54
Radium 226 MDC	pCi/L	0.16	0.13	0.13	0.15
Radium 228	pCi/L	18	1.7	16	18
Radium 228 precision (±)	pCi/L	1.7	0.83	1.1	1.4
Radium 228 MDC	pCi/L	1.7	1.2	0.96	1.3
Thorium 230	pCi/L	0.03	0.1	0.07	-0.05
Thorium 230 precision (±)	pCi/L	0.4	0.5	0.5	0.3
Thorium 230 MDC	pCi/L	1.1	1.3	1.4	1.1
A/C Balance (± 5)	%	-3.71	-1.20	-5.77	-0.368
Anions	meq/L	88.9	94.0	93.2	96.3
Cations	meq/L	82.6	91.8	83.1	95.6
Solids, Total Dissolved Calculated	mg/L	5400	5700	5650	5890
TDS Balance (0.80 - 1.20)		1.12	1.04	1.05	1.06
Trihalomethanes, Total	ug/L	0.66	1.81	1.02	1.22

**\*\*Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the attached database reports.**

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Zone 3 Monitor Wells					
Well ID:		517	517	517	517
Collection Date:		10/15/2012	7/16/2012	4/9/2012	1/9/2012
Receive Date:		10/19/2012	7/20/2012	4/13/2012	1/13/2012
Report Date:		11/20/2012	9/7/2012	5/25/2012	3/5/2012
Analyte	RUnits	C12100835-001	C12070713-001	C12040738-001	C12010437-001
Bicarbonate as HCO3	mg/L	ND(5)	ND(5)	ND(5)	ND(5)
Calcium	mg/L	456	495	435	475
Chloride	mg/L	43	45	49	42
Magnesium	mg/L	480	527	479	463
Nitrogen, Ammonia as N	mg/L	10.4	10.7	10.8	10.9
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(1)	ND(0.1)	ND(0.5)	ND(0.5)
Potassium	mg/L	12	12	12	13
Sodium	mg/L	151	151	147	146
Sulfate	mg/L	3770	3940	3980	3770
pH	s.u.	3.09	3.17	3.25	3.07
Solids, Total Dissolved TDS @ 180 C	mg/L	5470	5560	5580	5350
Aluminum	mg/L	12.9	11.7	10.9	10.8
Beryllium	mg/L	0.011	0.010	0.01	0.01
Cadmium	mg/L	0.008	0.009	0.011	0.010
Cobalt	mg/L	0.85	0.90	0.98	0.92
Lead	mg/L	0.014	0.014	ND(0.05)	ND(0.05)
Manganese	mg/L	10.7	11.6	11.9	11.2
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	1.07	1.02	1.04	1.01
Uranium	mg/L	0.124	0.117	0.107	0.117
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	ND(0.01)	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	7.0	41.5	12.4	13.7
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.7	3.1	1.2	1.3
Gross Alpha minus Rn & U MDC	pCi/L	0.3	0.9	0.5	0.4
Lead 210	pCi/L	1.9	1.2	1.7	2.3
Lead 210 precision (±)	pCi/L	0.7	0.7	0.8	0.6
Lead 210 MDC	pCi/L	1.1	1.2	1.3	1.0
Radium 226	pCi/L	6.6	10	7.3	5.1
Radium 226 precision (±)	pCi/L	0.48	0.62	0.58	0.30
Radium 226 MDC	pCi/L	0.15	0.15	0.18	0.11
Radium 228	pCi/L	14	11	14	12
Radium 228 precision (±)	pCi/L	1.2	1.1	1.2	1.1
Radium 228 MDC	pCi/L	1.1	1.1	1.1	1.1
Thorium 230	pCi/L	7.3	9.0	4.0	3.0
Thorium 230 precision (±)	pCi/L	1.7	1.5	1.2	0.6
Thorium 230 MDC	pCi/L	0.5	0.2	0.7	0.2
A/C Balance (± 5)	%	0.372	3.62	-4.14	-1.03
Anions	meq/L	79.9	83.5	84.3	79.7
Cations	meq/L	80.5	89.7	77.6	78.1
Solids, Total Dissolved Calculated	mg/L	5000	5200	5140	4950
TDS Balance (0.80 - 1.20)		1.11	1.07	1.09	1.08
Trihalomethanes, Total	ug/L	7.52	4.44	4.80	3.84

**\*\*Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the attached database reports.**

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Zone 3 Monitor Wells					
Well ID:		708	708	708	708
Collection Date:		10/15/2012	7/16/2012	4/9/2012	1/9/2012
Receive Date:		10/19/2012	7/20/2012	4/13/2012	1/13/2012
Report Date:		11/20/2012	9/7/2012	5/25/2012	3/5/2012
Analyte	RUnits	C12100835-002	C12070713-002	C12040738-002	C12010437-002
Bicarbonate as HCO3	mg/L	ND(5)	ND(5)	ND(5)	ND(5)
Calcium	mg/L	460	446	419	455
Chloride	mg/L	30	30	51	30
Magnesium	mg/L	604	602	579	543
Nitrogen, Ammonia as N	mg/L	1.3	1.44	1.60	1.4
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(1)	ND(0.1)	ND(0.5)	ND(0.5)
Potassium	mg/L	15	15	13	15
Sodium	mg/L	130	130	117	120
Sulfate	mg/L	4500	4320	4530	4640
pH	s.u.	2.91	2.89	3.03	2.98
Solids, Total Dissolved TDS @ 180 C	mg/L	6270	6250	6420	6380
Aluminum	mg/L	36.7	34.4	34.6	26.4
Beryllium	mg/L	0.043	0.037	0.04	0.03
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	0.60	0.60	0.54	0.59
Lead	mg/L	0.004	0.004	ND(0.05)	ND(0.05)
Manganese	mg/L	13.8	13.0	12.0	13.2
Molybdenum	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.82	0.69	0.72	0.66
Uranium	mg/L	0.108	0.0958	0.0864	0.0890
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	ND(0.001)	ND(0.001)	ND(0.01)	ND(0.001)
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	11.2	29.8	13.7	13.0
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.8	2.6	1.3	1.2
Gross Alpha minus Rn & U MDC	pCi/L	0.2	0.9	0.5	0.4
Lead 210	pCi/L	1.2	1.2	1.5	1.6
Lead 210 precision (±)	pCi/L	0.7	0.7	0.8	0.6
Lead 210 MDC	pCi/L	1.1	1.2	1.3	1.0
Radium 226	pCi/L	7.6	8.8	9.8	6.8
Radium 226 precision (±)	pCi/L	0.54	0.54	0.69	0.32
Radium 226 MDC	pCi/L	0.16	0.14	0.19	0.09
Radium 228	pCi/L	6.0	4.9	4.7	5.6
Radium 228 precision (±)	pCi/L	1.0	0.85	0.91	0.80
Radium 228 MDC	pCi/L	1.2	1.0	1.2	0.95
Thorium 230	pCi/L	0.3	0.2	1.2	0.5
Thorium 230 precision (±)	pCi/L	0.6	0.6	0.8	0.8
Thorium 230 MDC	pCi/L	1.3	1.4	1.1	1.8
A/C Balance (± 5)	%	0.558	5.68	-4.37	-4.47
Anions	meq/L	95.2	91.5	99.0	97.4
Cations	meq/L	96.3	102	90.7	89.1
Solids, Total Dissolved Calculated	mg/L	5800	5600	5820	5850
TDS Balance (0.80 - 1.20)		1.08	1.11	1.10	1.09
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

**\*\*Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the attached database reports.**

UNC Mining and Milling ChurchRock Operations					
GroundWater Monitoring Summary: Zone 3 Monitor Wells					
Well ID:		711	711	711	711
Collection Date:		10/15/2012	7/17/2012	4/9/2012	1/19/2012
Receive Date:		10/19/2012	7/20/2012	4/13/2012	1/13/2012
Report Date:		11/20/2012	9/7/2012	5/25/2012	3/5/2012
Analyte	RUnits	C12100835-003	C12070713-004	C12040738-003	C12010437-003
Bicarbonate as HCO3	mg/L	ND(5)	ND(5)	ND(5)	ND(5)
Calcium	mg/L	500	482	450	485
Chloride	mg/L	16	18	18	17
Magnesium	mg/L	462	460	449	422
Nitrogen, Ammonia as N	mg/L	0.42	0.38	0.39	0.34
Nitrogen, Nitrate+Nitrite as N	mg/L	ND(0.2)	ND(0.1)	ND(0.2)	ND(0.1)
Potassium	mg/L	11	12	10	10
Sodium	mg/L	103	117	97	95
Sulfate	mg/L	3280	3400	3650	3400
pH	s.u.	3.78	3.30	3.25	3.27
Solids, Total Dissolved TDS @ 180 C	mg/L	4520	5020	4860	4730
Aluminum	mg/L	0.3	0.2	0.2	0.2
Beryllium	mg/L	0.002	0.002	ND(0.01)	ND(0.01)
Cadmium	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)
Cobalt	mg/L	0.29	0.28	0.29	0.33
Lead	mg/L	0.003	0.004	ND(0.05)	ND(0.05)
Manganese	mg/L	5.02	5.12	5.36	5.36
Molybdenum	mg/L	0.2	ND(0.1)	ND(0.1)	ND(0.1)
Nickel	mg/L	0.27	0.26	0.26	0.29
Uranium	mg/L	0.0169	0.0177	0.0203	0.0185
Vanadium	mg/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
Arsenic-III	mg/L	0.004	0.002	ND(0.01)	0.004
Selenium-IV	mg/L	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Gross Alpha minus Rn & U	pCi/L	4.3	5.5	4.6	5.0
Gross Alpha minus Rn & U Precision (±)	pCi/L	0.5	1.2	0.8	0.8
Gross Alpha minus Rn & U MDC	pCi/L	0.3	0.9	0.5	0.4
Lead 210	pCi/L	1.1	0.4	0.3	0.7
Lead 210 precision (±)	pCi/L	0.7	0.7	0.8	0.6
Lead 210 MDC	pCi/L	1.0	1.2	1.3	1.0
Radium 226	pCi/L	3.4	4.2	4.6	3.1
Radium 226 precision (±)	pCi/L	0.36	0.37	0.45	0.22
Radium 226 MDC	pCi/L	0.15	0.13	0.17	0.09
Radium 228	pCi/L	9.6	5.8	7.7	6.4
Radium 228 precision (±)	pCi/L	1.1	0.88	0.93	0.81
Radium 228 MDC	pCi/L	1.2	1.0	1.0	0.91
Thorium 230	pCi/L	0.09	0.06	0.1	0.07
Thorium 230 precision (±)	pCi/L	0.2	0.2	0.2	0.2
Thorium 230 MDC	pCi/L	0.5	0.5	0.2	0.4
A/C Balance (± 5)	%	2.79	0.363	-6.11	-1.43
Anions	meq/L	68.8	71.2	76.5	71.4
Cations	meq/L	72.8	71.8	67.7	69.4
Solids, Total Dissolved Calculated	mg/L	4400	4500	4680	4440
TDS Balance (0.80 - 1.20)		1.03	1.12	1.04	1.03
Trihalomethanes, Total	ug/L	ND(0.50)	ND(0.50)	ND(0.50)	ND(0.50)

**\*\*Note: The data presented on this form is intended for summary purposes only. Laboratory approved data is contained within the attached database reports.**