

**Abandoned Uranium Mines Project
Navajo Lands**

Four Corners Area

Water Sample Information

Map ID	Sample ID	Field Type	Sample Name	Longitude DMS (W)	Latitude DMS (N)	Elevation (ft)	Sample Date	Sample Time	pH su	Cond uS/cm	Temp C	ORP millivolt	Metals	Radio	Filtration	Preserved	Bacterial Sampling	Ludlum 19 mR/hr	Notes
1	RV990317TNW001	Well	9T-501	109 15 2.547	36 55 1.9607	5440	17-Mar-1999	9:07 am	8.81	585	10.7	228	Yes	Yes	No	Yes	No	8-14	Taken from Pipe
2	RV990317TNW002	Well	9T-546	109 17 41.89	36 54 13.786	5679	17-Mar-1999	3:01 pm	9.75	521	11.5	295	Yes	Yes	No	Yes	No	8-15	
3	RV990317TNS001	Spring	Sah Tah Spring	109 17 32.17	36 52 28.274	5633	17-Mar-1999	1:43 pm	8.06	1,049	12.1	237	Yes	Yes	No	Yes	No	10-15	Taken from Spring Pipe
4	RV990317TNW003	Well	Dan Clark	109 11 47.84	36 57 20.720	5391	17-Mar-1999	4:44 pm	9.41	488	12.8	269	Yes	Yes	No	Yes	No	5-8	Taken from Pipe
5	RV990323TNS004	Spring	Toh Dahstini Spring	109 10 57.08	36 55 32.724	5446	23-Mar-1999	12:41 am	7.50	640	21.3	201	Yes	Yes	No	Yes	No	10-12	
6	RV990318TNW004	Well	9T-523	109 10 51.93	36 55 24.617	5418	18-Mar-1999	9:46 am	8.56	449	11.5	410	Yes	Yes	No	Yes	No	8-12	Taken at Pipe
7	RV990318TNW005	Well	Chapter House, Teec Nos Pos	109 6 17.600	36 54 39.156	5191	18-Mar-1999	3:04 pm	8.88	822	17.1	487	Yes	Yes	No	Yes	No	8-12	Public Drinking Water,Teec Nos Pos Chapter House Sample
8	RV990318TNS002	Spring	Goat Springs	109 6 31.744	36 53 54.142	5297	18-Mar-1999	11:26 am	7.54	532	12.6	290	Yes	Yes	No	Yes	No	10-13	Taken at Pipe
9	RV990318TNS003	Spring	Twin Falls	109 7 7.7519	36 52 32.206	5765	18-Mar-1999	2:16 pm	8.98	442	8.8	287	Yes	Yes	No	Yes	No	15-20	Northern and Westerly
10	RV990615RVW007	Well	Cottonwood Well	109 1 53.847	36 46 24.747	5548	15-Jun-1999	12:51 pm	7.32	634	21.9	162	Yes	Yes	No	Yes	No	8-10	QA Taken
11	RV990407RVS004	Spring	Oak Spring	109 3 8.0687	36 44 54.013	5952	07-Apr-1999	3:25 pm	7.56	502	14.3	358	Yes	Yes	No	Yes	No	10-12	
12	RV990610RVS010	Spring	Nelson Spring	109 3 10.826	36 44 44.255	5905	10-Jun-1999	11:44 am	8.07	489	24.7	301	Yes	Yes	No	Yes	No	8-10	USED GEO-PUMP
13	RV990413RVS009	Spring	Little Cedar Well	109 3 57.941	36 44 41.149	6053	13-Apr-1999	4:14 pm	7.76	502	12.6	350	Yes	Yes	No	Yes	No	10-14	Water Trough
14	RV990407RVS002	Spring	Gould Spring	109 3 46.273	36 43 54.707	5895	07-Apr-1999	12:41 pm	7.57	514	15.4	292	Yes	Yes	No	Yes	No	10-12	SPRING IN GOULDS PROPERTY
15	RV990610RVS011	Stream	Oak Spring Creek	109 3 4.2365	36 44 43.814	5851	10-Jun-1999	1:40 pm	8.38	564	24.5	283	Yes	Yes	No	Yes	No	10-12	Downstream from Oak Spring Gate
16	RV990407RVS003	Spring	Pipe Spring	109 3 37.564	36 43 49.977	5841	07-Apr-1999	2:05 pm	7.41	583	12.0	342	Yes	Yes	No	Yes	No	10-12	Pipe Out of Hand Dug Spring
17	RV990325CVS003	Spring	Red Rock Sagebrush	109 3 46.188	36 43 38.747	5810	25-Mar-1999	3:12 pm	7.00	771	21.0	256	Yes	Yes	No	Yes	No	12-14	
18	RV990519RVW004	Well	Little Cedar Well	109 3 2.7018	36 43 18.279	5737	19-May-1999	2:40 pm	7.70	490	15.9	360	Yes	Yes	No	Yes	No	8-10	
19	RV990413RVS007	Spring	Oak Spring Dam	109 2 37.131	36 42 11.819	5536	13-Apr-1999	10:12 am	8.39	636	12.0	260	Yes	Yes	No	Yes	No	10-13	DETENTION DAM
20	RV990413RVS008	Spring	Oak Springs Wash	109 0 35.261	36 42 24.623	5297	13-Apr-1999	12:59 pm	8.71	1,148	18.8	308	Yes	Yes	No	Yes	No	14-20	Spring Next to Mines
21	RV990409RVS005	Spring	N63 Spring	109 3 7.7100	36 40 52.133	5409	09-Apr-1999	10:09 am	8.15	841	10.2	233	Yes	Yes	No	Yes	No	10-14	Off N 63 Next to Wash,Sample ID Changed from RV990413RVS005 to RV990
22	RV990519RVW005	Well	Thumb Rock Well	109 2 9.9197	36 36 7.8383	5796	19-May-1999	4:25 pm	7.86	1,233	15.0	325	Yes	Yes	No	Yes	No	8-15	
23	RV990406RVW003	Well	Chapter House, Red Valley	109 3 33.172	36 35 51.411	5788	06-Apr-1999	12:50 pm	9.07	1,320	11.2	518	Yes	Yes	No	Yes	No	14-16	Public Water Source,Red Valley Chapter House Sample
24	RV990407RVS001	Spring	Sage Brush Springs	109 3 2.8955	36 31 41.113	6195	07-Apr-1999	9:31 am	7.93	1,001	10.1	221	Yes	Yes	No	Yes	No	12-14	HAND PUMP AT SPRING
25	RV990329CVS004	Spring	Yellow Cottonwood Spring	109 9 28.108	36 33 38.664	6216	29-Mar-1999	10:19 am	7.81	773	12.7	203	Yes	Yes	No	Yes	No	12-16	
26	RV990518CVS014	Spring	Pine Water Springs	109 11 52.30	36 31 33.645	8076	18-May-1999	11:40 am	7.72	356	12.6	307	Yes	Yes	No	Yes	No	18-22	
27	RV990518CVS013	Spring	Aqueduct	109 12 9.980	36 31 46.626	7442	18-May-1999	9:48 am	7.73	490	12.2	284	Yes	Yes	No	Yes	No	13-18	AREA 1-1/2
28	RV990517CVS012	Spring	South Cove Wash	109 13 8.353	36 31 54.347	6748	17-May-1999	4:16 pm	8.41	523	13.4	328	Yes	Yes	No	Yes	No	10-12	Wash Runoff AREA 2,Sample ID changed from CV990517CVS012 to RV990
29	RV990518CVS015	Stream	Area 1	109 13 37.73	36 32 35.445	6481	18-May-1999	1:45 pm	8.43	579	22.0	319	Yes	Yes	No	Yes	No	15-18	Sandbag Dam
30	RV990518CVS016	Stream	Area 4	109 13 48.47	36 32 29.214	6522	18-May-1999	2:37 pm	8.30	648	22.4	205	Yes	Yes	No	Yes	No	12-15	WESTCOVE RUNOFF
31	RV990518CVS017	Stream	Area 2	109 13 48.44	36 32 29.199	6539	18-May-1999	2:47 pm	8.26	683	22.3	225	Yes	Yes	No	Yes	No	12-15	SOUTH COVE RUNOFF
32	RV990329CVS006	Spring	Nez Spring	109 16 4.693	36 31 54.202	8259	29-Mar-1999	1:21 pm	7.72	345	17.0	300	Yes	Yes	No	Yes	No	12-15	
33	RV990614CVS019	Spring	Cow Springs	109 16 28.78	36 33 16.895	7400	14-Jun-1999	9:57 am	7.68	719	16.1	266	Yes	Yes	No	Yes	No	10-13	Taken at Water Trough
34	RV990519CVW005	Well	Water Well 309	109 13 17.91	36 33 39.769	6305	19-May-1999	1:32 pm	7.98	839	13.2	336	Yes	Yes	No	Yes	No	8-14	
35	RV990331CVW003	Well	Red Point Dug Well	109 14 28.91	36 35 4.7694	6277	31-Mar-1999	10:28 am	7.56	1,802	14.6	248	Yes	Yes	No	Yes	No	12-18	
36	RV990517CVW004	Well	Ellison Wells	109 13 32.18	36 34 44.481	6134	17-May-1999	12:30 pm	8.13	1,354	13.4	318	Yes	Yes	No	Yes	No	8-12	DON ELLISON (12.7.12 A),Sample ID changed from CV990517CVS004 to R
37	RV990324CVS001	Spring	Cottonwood Spring	109 12 34.42	36 34 42.723	6142	24-Mar-1999	12:22 pm	7.43	1,159	21.3	284	Yes	Yes	No	Yes	No	12-18	
38	RV990329CVS005	Spring	P.H.S. 4-28-59	109 12 36.63	36 34 45.958	6137	29-Mar-1999	11:47 am	7.60	356	14.2	262	Yes	Yes	No	Yes	No	12-15	
39	RV990324CVW001	Well	Cove Chapter House	109 11 26.20	36 35 3.7272	5998	24-Mar-1999	8:57 am	7.43	247	21.3	315	Yes	Yes	No	Yes	No	11-13	Cove Mesa Chapter House Sample
40	RV990330CVS010	Spring	Alcove Canyon Springs	109 17 4.093	36 38 42.122	6352	30-Mar-1999	1:05 pm	8.85	791	14.2	272	Yes	Yes	No	Yes	No	10-14	
41	RV990412CVS011	Spring	Cove Mesa Springs	109 15 44.56	36 38 33.954	6577	12-Apr-1999	12:41 pm	8.98	289	18.2	251	Yes	Yes	No	Yes	No	10-12	Spring
42	RV990330CVS009	Spring	Cove Mesa Wash Spring	109 13 54.90	36 39 41.857	6142	30-Mar-1999	11:04 am	7.80	657	13.4	319	Yes	Yes	No	Yes	No	12-18	
43	RV990519CVS018	Spring	Boiling Over Springs	109 12 21.05	36 38 57.531	6071	19-May-1999	12:38 pm	8.49	965	17.3	273	Yes	Yes	No	Yes	No	10-12	West of Boiling Well
44	RV990330CVS008	Spring	E.C.W. No. 310	109 10 0.543	36 38 14.165	5792	30-Mar-1999	9:46 am	7.72	785	14.4	250	Yes	Yes	No	Yes	No	8-12	
45	RV990325CVS002	Spring	Hidden Springs	109 9 31.685	36 40 51.390	6278	25-Mar-1999	1:21 pm	7.43	477	21.3	270	Yes	Yes	No	Yes	No	13-14	
46	RV990831SWS001	Spring	Immanuel Mission	109 23 49.50	36 48 9.1349	5397	31-Aug-1999	1:56 pm	8.10	758	21.9	424	Yes	Yes	No	Yes	No	7-10	
47	RV990901SWW001	Well	Sweetwater Chapter House	109 25 31.50	36 51 8.5128	5299	01-Sep-1999	9:45 am	9.52	522	23.3	334	Yes	Yes	No	Yes	No	7-10	Sample ID changed from RV990901SWW002 to RV990901SWW001
48	RV990901SWW002	Well	9T-592	109 27 0.751	36 51 29.083	5280	01-Sep-1999	10:16 am	9.52	557	22.0	252	Yes	Yes	No	Yes	No	7-9	Sample ID changed from RV990901SWW003 to RV990901SWW002
49	RV990903RVS012	Spring	LUM 205	109 06 7.05	36 27 33.48	9327	03-Sep-1999	12:46 pm	6.08	167	11.7	316	Yes	Yes	No	Yes	No	14-20	
50	RV990903RVS013	Spring	Roof Butte Springs	109 5 8.59	36 27 48.54	8764	03-Sep-1999	2:00 pm	6.96	212	12.1	334	Yes	Yes	No	Yes	No	15-18	
51	RV990903RVW009	Well	12T-501	109 1 13.408	36 33 45.117	6217	03-Sep-1999	3:00 pm	9.08	320	23.5	301	Yes	Yes	No	Yes	No	8-10	

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Map ID	Sample ID	Field Type	Sample Name	Longitude DMS (W)	Latitude DMS (N)	Elevation (ft)	Sample Date	Sample Time	pH su	Cond uS/cm	Temp C	ORP millivolt	Metals	Radio	Filtration	Preserved	Bacterial Sampling	Ludlum 19 mR/hr	Notes
52	RV990907SWW003	Well	Slimwagon Well	109 24 59.18	36 52 8.2062	5351	07-Sep-1999	1:14 pm	7.82	1,038	19.8	243	Yes	Yes	No	Yes	No	8-10	Sample ID changed from RV990907SWW002 to RV990907SWW003
53	RV990907SWW004	Well	9T550	109 23 23.04	36 52 28.234	5600	07-Sep-1999	1:55 pm	8.42	751	24.0	280	Yes	Yes	No	Yes	No	7-10	
54	RV990907SWW005	Well	9K216	109 22 3.333	36 50 38.710	5668	07-Sep-1999	3:05 pm	8.43	449	23.9	290	Yes	Yes	No	Yes	No	7-8	
55	RV990907SWW006	Well	9T586	109 18 36.45	36 51 50.459	5862	07-Sep-1999	3:56 pm	8.14	787	23.1	309	Yes	Yes	No	Yes	No	7-10	
56	RV991019CVM010	Mine	Pipe Mine	109 15 13.33	36 31 58.787	7404	19-Oct-1999	4:30 pm	7.76	693	10.8	246	Yes	Yes	No	Yes	Yes	60-150	SampleID changed from RV991019CVM005 to RV991019CVM010
57	RV991020CVM012	Mine	Cove Mesa 2	109 14 9.002	36 30 39.250	7519	20-Oct-1999	5:50 pm	8.19	1,193	9.8	278	Yes	Yes	No	Yes	Yes	40-1000	SampleID changed from RV991020CVM007 to RV991020CVM012
58	RV991026CVM013	Mine	Camp Mine	109 13 23.90	36 29 21.621	7678	26-Oct-1999	1:22 pm	8.40	532	20.8	307	Yes	Yes	No	Yes	Yes	40-250	Sample ID changed from RV991019CVM008 to RV991026CVM013
59	RV991026CVS021	Spring	Deer Springs	109 12 4.165	36 30 32.775	8369	26-Oct-1999	4:00 pm	6.80	334	14.5	336	Yes	Yes	No	Yes	Yes	8-10	
60	RV991201RVW013	Well	West Thumb Rock Well	109 5 8.59	36 27 48.54	58540	01-Dec-1999	11:58 am	7.55	801	14.1	218	Yes	Yes	No	Yes	Yes	8-10	
61	RV991201RVW012	Well	Sheep Dip Well	109 6 12.31	36 34 18.03	6073	01-Dec-1999	11:58 am	9.72	820	13.4	244	Yes	Yes	No	Yes	Yes	12-18	
62	RV991201RVW011	Well	Benally Spring	109 5 47.37	36 35 44.43	5849	01-Dec-1999	11:58 am	7.49	700	14.7	253	Yes	Yes	No	Yes	Yes	13-15	

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Water Sample Analysis for Stable Metals

Map ID	Sample ID	Sample Name	Field Type	Aluminum	Antimony ²	Arsenic ^{2,4}	Barium	Beryllium ^{2,4}	Cadmium ^{2,4}	Calcium	Chromium ^{2,5}	Cobalt ²	Copper ²	Iron ²	Lead ²	Magnesium	Manganese ²	Mercury ²	Nickel ²	Potassium ²	Selenium ²	Silver ²	Sodium	Thallium ^{2,5}	Vanadium ²	Zinc ²	ILCR ^{1,6}	HI ^{3,6}
				Primary MCLs in Micrograms per Liter (ug/L) ⁷ 1000	6	50	1000	4	5	NONE	100	NONE	1300	300	15	NONE	50	2	NONE	NONE	50	100	NONE	2	NONE	5000		
				PRG Limits in Micrograms per Liter (ug/L)	15	0.045	2600	73	18	NONE	180	2200	1400	1100	4	NONE	1700	11	730	NONE	189	180	NONE	2.6	260	11000		
1	RV990317TNW001	9T-501	Well	28.4	0	0	58.1	0	0	51,500	0	0.7	0	174.0	0	13,500	34.6	0.074	0	2,090	0	0.8	42,100	0	0.6	196.0	0.00E+00	0.09
2	RV990317TNW002	9T-546	Well	71.5	0	18.3	8.8	0	0	1,040	0	0	4.9	1,140.0	1.2	255	8.0	0.076	0	734	0	0	133,000	0	6.5	139.0	4.07E-004	1.83
3	RV990317TNS001	Sah Tah Spring	Spring	31.5	0	0	57.9	0	0	96,000	0	0	0	0	0	29,200	7.9	0.076	0	1,350	11.7	0	80,300	0	5.6	3.5	0.00E+00	0.12
4	RV990317TNW003	Dan Clark	Well	40.8	3.0	0	38.7	0	0	2,200	0	0.8	4.2	614.0	0	428	5.4	0.069	0	1,340	0	0	119,000	4.4	0.6	137.0	0.00E+00	1.99
5	RV990323TNS004	Toh Dahstini Spring	Spring	45.8	0	0	49.3	0	0	41,600	4.2	0.8	0	65.2	1.8	15,800	3.4	0.065	3.0	0	0	0.8	59,000	0	3.0	18.7	0.00E+00	0.08
6	RV990318TNW004	9T-523	Well	30.7	0	0	68.2	0	0	29,500	0	0.8	3.9	231.0	0	6,560	32.0	0.074	0	2,540	0	0.6	60,900	0	0.7	83.4	0.00E+00	0.09
7	RV990318TNW005	Chapter House, Teec Nos Pos	Well	20.3	0	4.2	41.4	0	0	18,100	0	0	11.6	123.0	0	3,340	34.3	0.058	0	1,950	0	0	194,000	6.2	0.6	59.8	9.33E-005	2.84
8	RV990318TNS002	Goat Springs	Spring	24.2	0	0	121.0	0	0	74,700	0	0	0	16.0	0	13,600	1.8	0.069	0	668	0	0	15,900	0	1.7	5.4	0.00E+00	0.06
9	RV990318TNS003	Twin Falls	Spring	638.0	0	0	101.0	0	0	67,200	3.6	0.8	3.8	616.0	0	10,300	39.1	0.070	2.9	1,120	0	0	6,430	0	2.2	5.6	0.00E+00	0.18
10	RV990615RVW007	Cottonwood Well	Well	50.5	0	0	213.0	0	0	83,700	0	0	137.0	174.0	4.8	17,400	2.1	0	0	752	0	0	21,600	0	2.9	392.0	0.00E+00	0.24
11	RV990407RVS004	Oak Spring	Spring	39.7	7.2	0	146.0	0	0	69,800	0	0	0	0	3.2	15,500	0	0	0	725	0	0	16,500	0	4.0	9.8	0.00E+00	0.55
12	RV990610RVS010	Nelson Spring	Spring	786.0	0	0	241.0	0	0	73,400	0	0	0	599.0	0	15,300	28.4	0	0	1,040	0	0	15,800	3.8	6.6	3.8	0.00E+00	1.67
13	RV990413RVS009	Little Cedar Well	Spring	26.9	3.1	0	186.0	0	0	70,400	0	0	0	0	0	11,100	0.8	0	0	833	0	0	12,000	0	0	15.0	0.00E+00	0.28
14	RV990407RVS002	Gould Spring	Spring	408.0	2.3	0	183.0	0	0	74,900	0	0	0	236.0	2.2	12,700	6.0	0	0	1,080	0	0	14,700	0	3.0	42.0	0.00E+00	0.28
15	RV990610RVS011	Oak Spring Creek	Stream	79.6	0	2.6	183.0	0	0	75,800	0	0	0	70.7	0	21,600	29.2	0	0	1,320	0	0	21,700	4.3	6.1	0	5.78E-005	2.01
16	RV990407RVS003	Pipe Spring	Spring	46.8	0	0	137.0	0	0	88,100	0	0	0	0	1.2	17,500	1.6	0	0	0	0	0	18,700	0	3.6	20.6	0.00E+00	0.07
17	RV990325CVS003	Red Rock Sagebrush	Spring	50.2	0	0	61.7	0	0	71,700	0	0	14.5	102.0	0	18,100	1.0	0.073	0	0	0	0	40,100	0	3.9	70.5	0.00E+00	0.07
18	RV990519RVW004	Little Cedar Well	Well	7,210.0	0	4.8	245.0	0.2	0	107,000	5.3	2.9	94.2	4,750.0	67.8	15,900	135.0	0.052	3.5	2,850	0	0	15,200	0	13.0	449.0	1.07E-004	1.44
19	RV990413RVS007	Oak Spring Dam	Spring	1,340.0	2.8	0	97.2	0	0	76,600	0	0	0	667.0	0	21,200	98.1	0	0	2,250	0	0	34,900	0	8.2	21.9	0.00E+00	0.41
20	RV990413RVS008	Oak Springs Wash	Spring	3,660.0	0	0	101.0	0	0	81,800	0	0	0	1,550.0	1.4	34,200	46.6	0	0	3,550	0	0	129,000	0	10.4	18.1	0.00E+00	0.35
21	RV990409RVS005	N63 Spring	Spring	441.0	0	3.6	203.0	0	0	42,600	3.4	0	302.0	4,650.0	11.5	17,300	208.0	0	4.0	1,650	0	1.7	128,000	0	22.2	305.0	8.00E-005	1.32
22	RV990519RVW005	Thumb Rock Well	Well	54.4	0	11.4	312.0	0	0	101,000	0	1.0	17.4	0	0	26,900	0	0	0	1,660	12.6	0	109,000	0	34.5	71.7	2.53E-004	1.38
23	RV990406RVW003	Chapter House, Red Valley	Well	39.1	6.7	9.1	108.0	0	0	4,690	0	0.7	33.8	39.2	2.6	1,700	1.5	0	0	1,350	0	0	287,000	2.7	0	27.8	2.02E-004	2.39
24	RV990407RVS001	Sage Brush Springs	Spring	36.4	4.8	6.6	221.0	0	0	69,900	0	0	5.9	0	2.8	27,100	0.9	0	0	1,640	0	0	57,100	0	27.7	152.0	1.47E-004	1.13
25	RV990329CVS004	Yellow Cottonwood Spring	Spring	79.7	0	9.7	194.0	0	0	15,400	0	1.2	10.3	282.0	1.7	4,800	4.6	0.068	0	1,360	0	0.9	200,000	3.4	128.0	83.8	2.16E-004	2.81
26	RV990518CVS014	Pine Water Springs	Spring	7,370.0	0	4.3	84.4	0.3	4.3	45,400	12.1	4.3	333.0	9,470.0	100.0	9,910	125.0	0.057	18.7	7,210	0	0	5,130	0	13.3	9,940.0	9.56E-005	3.09
27	RV990518CVS013	Aqueduct	Spring	44.8	0	0	15.2	0	0	58,300	0	0	461.0	0	0	8,480	0	0	0	1,030	0	0	5,830	0	2.6	5.1	0.00E+00	0.35
28	RV990517CVS012	South Cove Wash	Spring	47.4	0	6.0	254.0	0	0	53,000	0	0	0	0	0	17,100	0	0	0	2,070	0	0	32,900	4.7	29.8	0	1.33E-004	2.57
29	RV990518CVS015	Area 1	Stream	394.0	0	4.7	329.0	0	0	74,000	0	1.1	0	212.0	0	12,500	40.0	0	0	3,590	0	0	22,200	0	12.1	4.5	1.04E-004	0.65
30	RV990518CVS016	Area 4	Stream	160.0	0	7.4	203.0	0	0	79,800	0	0	0	40.9	0	17,400	15.1	0	0	2,770	0	0	34,900	0	38.3	6.1	1.64E-004	0.92
31	RV990518CVS017	Area 2	Stream	84.9	0	4.6	228.0	0	0	76,700	0	0.9	0	0	0	18,400	28.8	0	0	3,660	0	0	43,700	4.6	15.6	3.8	1.02E-004	2.36
32	RV990329CVS006	Nez Spring	Spring	22.0	0	3.5	37.0	0	0	64,900	0	0	5.9	319.0	0	6,380	14.4	0.061	0	916	0	0	5,000	3.4	2.6	29.2	7.78E-005	1.70
33	RV990614CVS019	Cow Springs	Spring	53.2	0	0	402.0	0	0	130,000	0	0	0	0	0	17,600	3.6	0	0	0	0	0	14,400	4.0	5.0	7.2	0.00E+00	1.72
34	RV990519CVW005	Water Well 309	Well	51.7	0	9.8	241.0	0	0	64,900	0	0	16.8	0	0	23,200	0	0.053	0	1,980	8.5	0	88,500	5.4	20.8	11.7	2.18E-004	3.20
35	RV990331CVW003	Red Point Dug Well	Well	30.6	2.4	5.7	371.0	0	0	41,800	0	1.1	29.4	96.6	1.4	14,400	0.9	0.079	0	955	0	0	110,000	0	76.6	49.5	1.27E-004	1.16
36	RV990517CVW004	Ellison Wells	Well	44.5	0	6.3	131.0	0	0	47,400	0	0	52.4	279.0	3.2	26,800	72.5	0	0	729	0	0	236,000	6.2	11.4	196.0	1.40E-004	3.18
37	RV990324CVS001	Cottonwood Spring	Spring	32.8	0	5.1	92.4	0	0	66,700	0	0	0	43.5	0	24,800	0.8	0.074	0	1,180	21.7	0	176,000	0	19.5	4.6	1.13E-004	0.70
38	RV990329CVS005	P.H.S. 4-28-59	Spring	34.2	6.5	5.8	55.2	0	0	46,100	0	1.0	0.9	22.5	0	28,000	3.7	0.083	0	0	34.3	0	235,000	0	22.9	32.5	1.29E-004	1.27
39	RV990324CVW001	Cove Chapter House	Well	23.0	0	4.1	144.0	0	0	10,200	0	0.7	15.7	106.0	0	3,380	6.4	0.074	1.3	2,930	0	1.5	43,500	0	0.6	54.1	9.11E-005	0.48
40	RV990330CVS010	Alcove Canyon Springs	Spring	474.0	0	8.0	210.0	0	0	81,200	0	0.9	0	192.0	0	19,300	9.6	0.078	0	2,720	0	0.9	50,700	0	78.6	3.9	1.78E-004	1.16
41	RV990412CVS011	Cove Mesa Spring	Spring	1,030.0	4.4	0	44.2	0	0	13,900	0	0	0	470.0	8.9	1,950	13.9	0	0	2,560	0	0	1,220	0	4.5	41.8	0.00E+00	0.41
42	RV990330CVS009	Cove Mesa Wash Spring	Spring	286.0	0	4.2	149.0	0	0	37,800	0	0.9	1.7	172.0	0	18,600	8.0	0.078	0	1,180	0	0	73,900	4.0	26.3	9.8	9.33E-005	2.12
43	RV990519CVS018	Boiling Over Springs	Spring	67.6	0	3.2	137.0	0	0	38,600	0	0	0	0	0	34,500	20.7	0	0	706	0	0	119,000	4.1	11.6	0	7.11E-005	1.98

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Four Corners Area

Water Sample Analysis for Stable Metals

Map ID	Sample ID	Sample Name	Field Type	Aluminum	Antimony ²	Arsenic ^{2,4}	Barium	Beryllium ^{2,4}	Cadmium ^{2,4}	Calcium	Chromium ^{2,5}	Cobalt ²	Copper ²	Iron ²	Lead ²	Magnesium	Manganese ²	Mercury ²	Nickel ²	Potassium ²	Selenium ²	Silver ²	Sodium	Thallium ^{2,5}	Vanadium ²	Zinc ²	ILCR ^{1,6}	HI ^{3,6}		
				Primary MCLs in Micrograms per Liter (ug/L) ⁷	6	50	1000	4	5	NONE	100	NONE	1300	300	15	NONE	50	2	NONE	NONE	50	100	NONE	2	NONE	5000				
				PRG Limits in Micrograms per Liter (ug/L)	15	0.045	2600	73	18	NONE	180	2200	1400	1100	4	NONE	1700	11	730	NONE	189	180	NONE	2.6	260	11000				
44	RV990330CVS008	E.C.W. No. 310	Spring	0	0	4.1	119.0	0	0	31,300	0	0	5.0	41.1	0	12,300	0.9	0.067	3.2	1,310	0	0	88,000	0	23.7	33.4	9.11E-005	0.53		
45	RV990325CVS002	Hidden Springs	Spring	23.8	0	0	83.4	0	0	50,800	0	0	36.1	21.4	1.2	16,500	0.9	0.068	0	703	0	0.8	31,900	0	4.4	10.2	0.00E+00	0.09		
46	RV990831SWS001	Immanuel Mission	Spring	47.0	0	6.1	63.3	0	0	44,500	0	0	0	0	0.9	36,000	0	0.021	0	713	7.4	0	73,900	0	13.0	56.8	1.35E-004	0.67		
47	RV990901SWW001	Sweetwater Chapter House	Well	36.0	0	11.4	17.0	0	0	1,020	3.2	0	2.4	0	0	171	0	0.019	0	898	2.2	0	123,000	0	56.8	3.7	2.53E-004	1.30		
48	RV990901SWW002	9T-592	Well	48.0	0	22.2	28.3	0	0	1,310	2.4	0	0	224.0	0	383	2.4	0.021	0	942	4.3	0	129,000	0	63.7	130.0	4.93E-004	2.35		
49	RV990903RVS012	LUM 205	Spring	661.0	0	0	40.4	0	0	23,000	0	0	0	404.0	0	3,660	4.4	0.057	0	753	0	0	2,330	0	0	0	0.00E+00	0.08		
50	RV990903RVS013	Roof Butte Springs	Spring	32.0	0	0	15.9	0	0	29,000	3.7	0	0	0	0	5,710	0	0.075	0	1,030	0	0	3,500	0	0	0	0.00E+00	0.03		
51	RV990903RVW009	12T-501	Well	66.0	0	2.3	87.9	0	0	9,550	0	0	5.2	571.0	0	3,660	3.7	0.019	0	1,410	31.7	0	56,200	0	0	81.9	5.11E-005	0.48		
52	RV990907SWW003	Slimwagon Well	Well	56.0	0	2.7	34.3	0	0	58,300	0	0	4.8	0	0	16,800	0	0.023	0	3,480	0.6	0	149,000	0	4.5	51.6	6.00E-005	0.29		
53	RV990907SWW004	9T550	Well	76.0	0	0	40.6	0	0	54,300	0	0	12.7	258.0	0	22,000	19.1	0.038	0	4,470	2.8	0	82,200	0	0	355.0	0.00E+00	0.11		
54	RV990907SWW005	9K216	Well	44.0	0	0	80.2	0	0.2	21,500	0	0	0	0	0	18,000	1.3	0.019	0	2,770	0	0	48,700	0	16.0	41.7	0.00E+00	0.11		
55	RV990907SWW006	9T586	Well	45.0	0	0	20.4	0	0	71,600	0	0	0	161.0	0	37,400	21.1	0.022	0	2,610	0	0	41,100	0	0	101.0	0.00E+00	0.05		
56	RV991019CVM010	Pipe Mine	Mine	378.0	0	105.0	122.0	3.0	0	52,800	0	1.3	0	143.0	0	7,240	0.5	0	0	7,990	1,460.0	1.8	45,600	44.0	15,600.0	7.1	2.33E-003	94.32		
57	RV991020CVM012	Cove Mesa 2	Mine	434.0	0	82.8	55.1	0.6	0	50,900	0.8	0.7	0	189.0	0	7,190	5.6	0	0	10,000	846.0	0	204,000	18.0	2,550.0	3.8	1.84E-003	28.80		
58	RV991026CVM013	Camp Mine	Mine	258.0	0	7.8	391.0	0	0	37,800	0	0.6	0	109.0	0	6,260	13.3	0	0	5,520	21.5	0	47,000	0	348.0	2.4	1.73E-004	2.34		
59	RV991026CVS021	Deer Springs	Spring	30.9	0	0	19.3	0	0	46,800	0.3	0.9	0	43.2	0	4,030	51.0	0	0	790	4.3	0	3,910	3.8	7.4	3.2	0.00E+00	1.56		
60	RV991201RVW013	West Thumb Rock Well	Well	39.0	0	7.9	147.0	0	0	51,000	0	0	4.3	0	0	15,700	0	0	0	724	5.1	0	81,900	0	21.3	24.0	1.75E-004	0.89		
61	RV991201RVW012	Sheep Dip Well	Well	0	0	4.2	299.0	0	0	44,100	0	0	0	0	0	19,900	0	0	0	2,050	1.7	0	87,900	0	26.3	6.8	9.36E-005	0.61		
62	RV991201RVW011	Benally Spring	Well	31.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00E+00	0.00	

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Four Corners Area

Water Sample Analysis for Radioactive Metals

Map ID	Sample ID	Sample Name	Field Type ⁷	Alpha ²	Beta ³	Lead210 ⁴	Radium226 ²	Radium228 ²	Thorium228 ²	Thorium230 ²	Thorium232 ²	Uranium234 ²	Uranium235 ²	Uranium238 ^{2,6}	ILCRrad ^{1,5}		
				15	50	NONE	5	5	NONE	NONE	NONE	20	20	20	20	20	20
				PRG Limits in pico Curies per Liter (pCi/L) ⁸	NONE	NONE	0.047	0.16	0.19	0.21	1.3	1.5	1.1	1.1	0.71		
1	RV990317TNW001	9T-501	Well	8.94	3.82	0.48	1.060	0.378	0.010	0	0	5.28	0.038	1.33	1.54E-005		
2	RV990317TNW002	9T-546	Well	10.30	3.17	0.19	0.010	0.021	0	0.011	0	7.43	0.131	1.52	9.20E-006		
3	RV990317TNS001	Sah Tah Spring	Spring	45.40	16.00	0.59	0.104	0.603	0.007	0	0	26.10	0.825	18.90	5.50E-005		
4	RV990317TNW003	Dan Clark	Well	0.13	1.83	0	0.106	0.077	0	0	0	0.40	0	0.07	1.53E-006		
5	RV990323TNS004	Toh Dahstini Spring	Spring	6.80	25.30	0.20	0.024	0.661	0.016	0.003	0.003	4.86	0.130	2.51	1.18E-005		
6	RV990318TNW004	9T-523	Well	0.79	4.07	0.36	0.342	0.065	0.005	0	0	0.25	0	0.03	2.77E-006		
7	RV990318TNW005	Chapter House, Teec Nos Pos	Well	11.50	4.53	0.84	1.880	1.130	0.007	0.003	0	6.02	0.122	0.98	4.26E-005		
8	RV990318TNS002	Goat Springs	Spring	1.86	1.58	0.92	0.078	0.247	0.018	0	0	2.19	0	1.03	2.48E-005		
9	RV990318TNS003	Twin Falls	Spring	3.00	3.40	0.25	0.073	0.799	0	0	0.023	1.92	0.070	1.01	7.91E-006		
10	RV990615RVW007	Cottonwood Well	Well	6.50	2.69	0.73	0.102	0.812	0	0.005	0	4.12	0.042	2.89	1.28E-005		
11	RV990407RVS004	Oak Spring	Spring	1.77	1.65	0.57	0.059	0.219	0.002	0.002	0	1.50	0.071	0.84	4.15E-006		
12	RV990610RVS010	Nelson Spring	Spring	3.85	1.90	0.61	0.099	0.812	0.027	0.008	0.010	1.76	0.212	1.19	8.50E-006		
13	RV990413RVS009	Little Cedar Well	Spring	0.92	1.87	0.51	0.037	0.703	0.010	0.004	0	1.70	0.136	0.63	6.54E-006		
14	RV990407RVS002	Gould Spring	Spring	2.56	2.82	0.41	0.059	0.584	0.035	0.025	0.007	1.27	0	0.58	5.61E-006		
15	RV990610RVS011	Oak Spring Creek	Stream	2.27	1.98	0.55	0.193	0.833	0	0	0	1.51	0.072	1.48	9.11E-006		
16	RV990407RVS003	Pipe Spring	Spring	2.31	1.49	0.03	0.049	0.539	0.021	0.006	0	1.66	0.018	0.76	5.85E-006		
17	RV990325CVS003	Red Rock Sagebrush	Spring	4.31	0.70	0.38	0.034	0.503	0	0.007	0.005	2.45	0.080	0.94	6.49E-006		
18	RV990519RVW004	Little Cedar Well	Well	2.35	3.83	2.74	0.058	0.560	0.124	0.088	0.087	2.04	0	0.89	6.54E-005		
19	RV990413RVS007	Oak Spring Dam	Spring	1.54	4.28	0.76	0.112	0.891	0.021	0.026	0.017	2.43	0.112	1.36	2.59E-005		
20	RV990413RVS008	Oak Springs Wash	Spring	3.59	5.27	0.27	0.098	1.240	0.061	0.036	0.054	3.78	0.010	2.49	1.44E-005		
21	RV990409RVS005	N63 Spring	Spring	9.98	6.45	0.54	0.090	0.500	0.005	0.011	0.004	10.60	0.256	4.50	3.09E-005		
22	RV990519RVW005	Thumb Rock Well	Well	20.30	14.20	0.39	0.726	0.698	0.013	0.011	0	17.80	0.365	12.20	4.20E-005		
23	RV990406RVW003	Chapter House, Red Valley	Well	0	2.17	0.52	0.114	0.444	0.015	0.006	0	0.11	0.035	0	3.26E-006		
24	RV990407RVS001	Sage Brush Springs	Spring	18.60	5.53	0.50	0.106	0.723	0.041	0.005	0	11.30	0.118	4.73	2.17E-005		
25	RV990329CVS004	Yellow Cottonwood Spring	Spring	4.95	2.89	0.65	0.032	0.297	0.013	0	0.003	5.74	0.304	2.87	2.52E-005		
26	RV990518CVS014	Pine Water Springs	Spring	3.60	5.98	7.10	0.287	0.964	0.039	0.045	0.028	2.23	0.031	1.42	1.62E-004		
27	RV990518CVS013	Aqueduct	Spring	3.19	2.80	0.41	0.056	0.383	0	0.016	0.001	3.04	0.029	2.05	8.06E-006		
28	RV990517CVS012	South Cove Wash	Spring	5.90	5.44	0.18	0.167	0.775	0.021	0.020	0	4.84	0.030	2.42	1.31E-005		
29	RV990518CVS015	Area 1	Stream	48.40	15.30	0.24	1.590	0.564	0.017	0.054	0.008	26.00	0.813	24.50	7.19E-005		
30	RV990518CVS016	Area 4	Stream	133.00	44.60	0.34	2.930	0.644	0.025	0.068	0.003	74.60	3.130	71.10	1.93E-004		
31	RV990518CVS017	Area 2	Stream	108.00	47.10	0.67	2.100	0.677	0.015	0.011	0	56.50	2.140	57.50	1.65E-004		
32	RV990329CVS006	Nez Spring	Spring	4.30	3.43	1.20	0.052	0.465	0.003	0.011	0	2.48	0.032	1.91	3.33E-005		
33	RV990614CVS019	Cow Springs	Spring	13.60	4.59	0.54	0.188	0.759	0	0.003	0	12.00	0.276	5.92	2.47E-005		
34	RV990519CVW005	Water Well 309	Well	84.60	40.30	0.97	0.441	0.651	0.015	0.020	0	45.00	0.707	38.00	1.22E-004		
35	RV990331CVW003	Red Point Dug Well	Well	3.06	3.84	0.44	0.107	0.177	0.013	0	0	4.88	0.205	2.61	9.96E-006		
36	RV990517CVW004	Ellison Wells	Well	35.50	17.60	0.83	0.099	0.746	0.006	0	0	20.40	0.525	13.80	6.08E-005		
37	RV990324CVS001	Cottonwood Spring	Spring	7.46	7.04	0.45	0.032	0.668	0.015	0	0.003	8.66	0.237	5.59	1.98E-005		
38	RV990329CVS005	P.H.S. 4-28-59	Spring	26.10	8.70	0.40	0.034	0.837	0.001	0	0	14.20	0.470	8.73	3.03E-005		
39	RV990324CVW001	Cove Chapter House	Well	1.29	6.45	0.50	1.460	0.591	0.028	0.007	0	0.09	0	0	1.25E-005		
40	RV990330CVS010	Alcove Canyon Springs	Spring	100.00	47.50	0.49	0.344	1.090	0.123	0.129	0.066	63.20	2.540	59.60	1.52E-004		
41	RV990412CVS011	Cove Mesa Spring	Spring	2.12	5.12	1.71	0.110	0.759	0.019	0.052	0.007	0.21	0	0.39	4.19E-005		
42	RV990330CVS009	Cove Mesa Wash Spring	Spring	8.88	4.32	0.60	0.107	0.158	0.010	0.011	0.004	6.43	0.244	3.44	2.53E-005		
43	RV990519CVS018	Boiling Over Springs	Spring	17.00	6.32	0.37	0.083	0.636	0.013	0.012	0	11.30	0.271	5.82	2.27E-005		
44	RV990330CVS008	E.C.W. No. 310	Spring	3.03	4.97	0.82	0.056	0.118	0	0	0	6.25	0.030	2.48	2.77E-005		
45	RV990325CVS002	Hidden Springs	Spring	2.43	2.18	0.24	0.087	0.417	0.006	0.005	0	2.21	0	0.87	6.01E-006		

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Four Corners Area

Water Sample Analysis for Radioactive Metals

Map ID	Sample ID	Sample Name	Field Type ⁷	Alpha ²	Beta ³	Lead210 ⁴	Radium226 ²	Radium228 ²	Thorium228 ²	Thorium230 ²	Thorium232 ²	Uranium234 ²	Uranium235 ²	Uranium238 ^{2,6}	ILCRrad ^{1,5}
			Primary MCL's in pico Curies per Liter (pCi/L) ⁷	15	50	NONE	5	5	NONE	NONE	NONE	20	20	20	
			PRG Limits in pico Curies per Liter (pCi/L) ⁸	NONE	NONE	0.047	0.16	0.19	0.21	1.3	1.5	1.1	1.1	0.71	
46	RV990831SWS001	Immanuel Mission	Spring	6.30	3.90	0.40	0.100	0	0.200	0.200	0.200	6.50	0.400	4.20	1.41E-005
47	RV990901SWW001	Sweetwater Chapter House	Well	12.80	6.70	0.70	0	0	0.300	0.300	0.300	11.70	0.700	6.10	2.17E-005
48	RV990901SWW002	9T-592	Well	12.00	4.50	0	0	0	0.200	0.200	0.200	6.40	0.500	2.20	1.06E-005
49	RV990903RVS012	LUM 205	Spring	1.20	3.00	0	0.200	0	0.400	1.000	0.200	4.50	1.100	3.50	1.41E-005
50	RV990903RVW013	Roof Butte Springs	Spring	0	0.40	1.00	0	0	0.200	0.200	0.200	0.60	0.100	0.10	2.02E-006
51	RV990903RVW009	12T-501	Well	7.90	3.90	0.40	0.200	0	0.300	0.300	0.300	5.00	0.100	2.20	1.08E-005
52	RV990907SWW003	Slimwagon Well	Well	40.30	22.50	0	0.400	0	0.200	0.200	0.200	49.30	1.900	24.80	8.52E-005
53	RV990907SWW004	9T550	Well	18.60	15.50	5.50	2.000	0	0.300	0.600	0.200	22.40	1.900	8.00	1.65E-004
54	RV990907SWW005	9K216	Well	15.50	13.60	1.00	0.300	0	0.600	0.200	0.200	17.60	1.500	8.10	3.38E-005
55	RV990907SWW006	9T586	Well	11.60	6.70	0.70	1.500	0	0.300	0.300	0.300	14.70	0.200	5.40	3.24E-005
56	RV991019CVM010	Pipe Mine	Mine	99.10	39.80	11.70	14.400	0.636	0.082	0.116	0	36.30	2.250	28.90	4.19E-004
57	RV991020CVM012	Cove Mesa 2	Mine	1,020.00	405.00	9.83	15.000	0.608	0	0.439	0.010	449.00	18.000	412.00	1.31E-003
58	RV991026CVM013	Camp Mine	Mine	459.00	125.00	10.70	57.300	0.928	0.070	0.209	0	209.00	9.660	201.00	1.07E-003
59	RV991026CVS021	Deer Springs	Spring	0.45	1.35	0.45	0.054		0.115	0.020	0		0.064	0.17	1.19E-006
60	RV991201RVW013	West Thumb Rock Well	Well	12.20	14.10	0	0	0	0.200	0.200	0.200	16.80	0.900	15.10	3.86E-005
61	RV991201RVW012	Sheep Dip Well	Well	4.30	1.80	0	0	0.800	0.300	0.300	0.200	6.20	0.300	3.10	1.63E-005
62	RV991201RVW011	Benally Spring	Well	0.40	0	0	0	0	0.200	0.200	0.200	0.50	0.200	0.50	2.58E-006

1. ILCR = Incremental Lifetime Cancer Risk with Respect to Radioactive Metals.
2. The values of "0" represent a result of either "not detected" at the detection limit of the laboratory method or a negative count. In both cases, the result can be considered "0".
3. The evaluation of Beta is in two steps. The initial screening level is 50 pCi/L. If the measured level of Beta exceeds the 50 pCi/L, a further evaluation is merited. Beta-emitting radionuclides would be screened.
4. The values of "0" in the Pb210 column represent analytical results that measured less than the Minium Detectable Activity (MDA).
5. Definition of final calculations and ranking will be fully described and published in a final report.
6. When comparing these PRG's with the U.S. EPA's PRG list, the calculated PRG used for U238 is less than the EPA's PRG for U238D (D meaning that its decay daughters are included in the risk calculations).
7. MCL- Maximum Contaminant Levels are the maximum permissible level of a contaminant in water delivered to users of a public water system. This level is not always based on health or risk criteria.
8. PRG- Preliminary Remediation Goals are tools for evaluating and cleaning up contaminated sites. They are risk-based concentrations derived from standardized equations, combining exposure information assumptions and EPA toxicity data.

**Abandoned Uranium Mines Project
Navajo Lands**

Four Corners Area

**Water Quality Analysis: Stable and Radioactive Metals
In Order of Map ID**

Map ID	Sample ID	Field Type	Alpha ²		Beta ²		ILCR for Stable Metals ¹		ILCR for Rad Metals ¹		Total Cancer Risk	Hazard Index (HI)	Water Quality with Respect to Stable and Radioactive Metals ⁴			Risk Category	Risk Ranking ⁶	Map ID	Bacteria Present ⁷	Total Coliform Detected/ Fecal Coliform Not Detected ⁷	Total Coliform & Fecal Coliform Detected ⁸
			MCL: ⁹ PRG: ¹⁰	15 NONE	50 NONE			Arsenic ³ 50	Lead ³ 15	Total U ² 30 ⁵			Less Risk	Some Risk	More Risk						
1	RV990317TNW001	Well	8.94	3.82	0.00E+000	1.54E-005	1.54E-005	0.09	0	0	6.61			ILCR	SOME	19	1				
2	RV990317TNW002	Well	10.30	3.17	4.07E-004	9.20E-006	4.16E-004	1.83	18.3	1.2	8.95			ILCR, HI	SOME	43	2				
3	RV990317TNS001	Spring	45.40	16.00	0.00E+000	5.50E-005	5.50E-005	0.12	0	0	45.83			Total U	MORE	50	3				
4	RV990317TNW003	Well	0.13	1.83	0.00E+000	1.53E-006	1.53E-006	1.99	0	0	0.40			HI	SOME	13	4				
5	RV990323TNS004	Spring	6.80	25.30	0.00E+000	1.18E-005	1.18E-005	0.08	0	1.8	7.37			ILCR	SOME	24	5				
6	RV990318TNW004	Well	0.79	4.07	0.00E+000	2.77E-006	2.77E-006	0.09	0	0	0.00		X		LESS	1	6				
7	RV990318TNW005	Well	11.50	4.53	9.33E-005	4.26E-005	1.36E-004	2.84	4.2	0	7.00			ILCR, HI	SOME	25	7				
8	RV990318TNS002	Spring	1.86	1.58	0.00E+000	2.48E-005	2.48E-005	0.06	0	0	3.22			ILCR	SOME	15	8				
9	RV990318TNS003	Spring	3.00	3.40	0.00E+000	7.91E-006	7.91E-006	0.18	0	0	2.93		X		LESS	5	9				
10	RV990615RVW007	Well	6.50	2.69	0.00E+000	1.28E-005	1.28E-005	0.24	0	4.8	7.01			ILCR, Lead	SOME	32	10	Yes	Yes	Yes	
11	RV990407RVS004	Spring	1.77	1.65	0.00E+000	4.15E-006	4.15E-006	0.55	0	3.2	2.34		X		LESS	11	11				
12	RV990610RVS010	Spring	3.85	1.90	0.00E+000	8.50E-006	8.50E-006	1.67	0	0	2.95			HI	SOME	14	12				
13	RV990413RVS009	Spring	0.92	1.87	0.00E+000	6.54E-006	6.54E-006	0.28	0	0	2.33		X		LESS	4	13				
14	RV990407RVS002	Spring	2.56	2.82	0.00E+000	5.61E-006	5.61E-006	0.28	0	2.2	1.85		X		LESS	10	14				
15	RV990610RVS011	Stream	2.27	1.98	5.78E-005	9.11E-006	6.69E-005	2.01	2.6	0	2.99			ILCR, HI	SOME	18	15				
16	RV990407RVS003	Spring	2.31	1.49	0.00E+000	5.85E-006	5.85E-006	0.07	0	1.2	2.42		X		LESS	7	16				
17	RV990325CVS003	Spring	4.31	0.70	0.00E+000	6.49E-006	6.49E-006	0.07	0	0	3.39		X		LESS	6	17				
18	RV990519RVW004	Well	2.35	3.83	1.07E-004	6.54E-005	1.72E-004	1.44	4.8	67.8	2.93			Lead	MORE	57	18				
19	RV990413RVS007	Spring	1.54	4.28	0.00E+000	2.59E-005	2.59E-005	0.41	0	0	3.79			ILCR	SOME	16	19	Yes	Yes		
20	RV990413RVS008	Spring	3.59	5.27	0.00E+000	1.44E-005	1.44E-005	0.35	0	1.4	6.27			ILCR	SOME	20	20	Yes	Yes		
21	RV990409RVS005	Spring	9.98	6.45	8.00E-005	3.09E-005	1.11E-004	1.32	3.6	11.5	15.10			ILCR, Lead, HI	SOME	46	21				
22	RV990519RVW005	Well	20.30	14.20	2.53E-004	4.20E-005	2.95E-004	1.38	11.4	0	30.37			Total U	MORE	49	22	Yes	Yes		
23	RV990406RVW003	Well	0	2.17	2.02E-004	3.26E-006	2.05E-004	2.39	9.1	2.6	0.00			ILCR, HI	SOME	29	23	No	No	No	
24	RV990407RVS001	Spring	18.60	5.53	1.47E-004	2.17E-005	1.68E-004	1.13	6.6	2.8	16.03			ILCR, HI	SOME	41	24	No	No	No	
25	RV990329CVS004	Spring	4.95	2.89	2.16E-004	2.52E-005	2.41E-004	2.81	9.7	1.7	8.91			ILCR, HI	SOME	39	25				
26	RV990518CVS014	Spring	3.60	5.98	9.56E-005	1.62E-004	2.58E-004	3.09	4.3	100.0	3.65			Lead	MORE	60	26				
27	RV990518CVS013	Spring	3.19	2.80	0.00E+000	8.06E-006	8.06E-006	0.35	0	0	5.09		X		LESS	8	27				
28	RV990517CVS012	Spring	5.90	5.44	1.33E-004	1.31E-005	1.46E-004	2.57	6.0	0	7.26			ILCR, HI	SOME	26	28				
29	RV990518CVS015	Stream	48.40	15.30	1.04E-004	7.19E-005	1.76E-004	0.65	4.7	0	51.31			Total U	MORE	52	29				
30	RV990518CVS016	Stream	133.00	44.60	1.64E-004	1.93E-004	3.57E-004	0.92	7.4	0	148.83			Total U	MORE	58	30				
31	RV990518CVS017	Stream	108.00	47.10	1.02E-004	1.65E-004	2.67E-004	2.36	4.6	0	116.14			Total U	MORE	55	31				

1. ILCR = Incremental Lifetime Cancer Risk with Respect to Stable Metals and Radioactive Metals.

2. The PRG's and MCL's for Alpha, Beta, and Uranium are in Pico-Curies per Liter (pCi/L).

3. The PRG's and MCL's for Lead and Arsenic are in Micrograms per Liter (ug/L).

4. Water Quality Levels:

- Less Risk Total Cancer Risk is less than or equal to 1E-05 and Hazard Index is less than or equal to 1 and Lead is less than 4 and total U less than 30.
 - Some Risk Total Cancer Risk is less than or equal to 6E-04 but greater than 1E-05 or Hazard Index is less than 10 but greater than 1 or Lead is less than 15 but greater than 4 and total U less than 30.
 - More Risk Total Cancer Risk is greater than 6E-04 or Hazard Index is greater than 10 or Lead is greater than 15 or total U equal to or greater than 30.
- The three categories will be color coded on the associated map to be published with the final document.

5. Proposed EPA MCL is 30 pCi/L for the sum of three U isotopes.

6. The definitions of the risk categories and the ranking will be fully described and published in the final report.

7. No change in water quality assessment with respect to stable and radioactive metals results.

8. In accordance with USEPA emergency response procedures for purifying bacteria - impacted water, please use the following methods of emergency disinfection. These methods will not remove stable metals or radionuclides from water.

Boiling: Vigorous boiling for one minute will kill any disease-causing microorganisms present in water. The flat taste of boiled water can be improved by pouring it back and forth from one container to another (called aeration), by allowing it to stand for a few hours, or by adding a small pinch of salt for each quart of water boiled.

Chemical Treatment: When boiling is not practical, chemical disinfection should be used. The two chemicals commonly used are chlorine and iodine. Chlorine and iodine are somewhat effective in protecting against exposure to Giardia, but may not be effective in controlling Cryptosporidium.

Therefore, use iodine or chlorine only to disinfect well water (as opposed to surface water sources such as rivers, lakes, and springs), because well water is unlikely to contain these disease causing organisms. Chlorine is generally more effective than iodine in controlling Giardia, and both disinfectants work much better in warmer water.

Chlorine Bleach: Common household bleach contains a chlorine compound that will disinfect water. The procedure to be followed is usually written on the label. When the necessary procedure is not given, find the percentage of available chlorine on the label and use the information in the following tabulation as a guide.

Available Chlorine	1%	4-6%	7-10%
Drops per Quart of Clear Water	10	2	1

(If strength is unknown, add ten drops per quart of water. Double amount of chlorine for cloudy or colored water.) The treated water should be mixed thoroughly and allowed to stand for 30 minutes. The water should have a slight chlorine odor, if not, repeat the dosage and allow the water to stand for an additional 15 minutes.

If the treated water has too strong a chlorine taste, it can be made more pleasing by allowing the water to stand exposed to the air for a few hours or by pouring it from one clean container to another several times.

9. MCL- Maximum Contaminant Levels are the maximum permissible level of a contaminant in water delivered to users of a public water system. This level is not always based on health or risk criteria.

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Navajo Lands**

Four Corners Area

**Water Quality Analysis: Stable and Radioactive Metals
In Order of Map ID**

Map ID	Sample ID	Field Type	Alpha ²		Beta ²		ILCR for Stable Metals ¹		ILCR for Rad Metals ¹		Total Cancer Risk	Hazard Index (HI)	Water Quality with Respect to Stable and Radioactive Metals ⁴			Risk Category	Risk Ranking ⁶	Map ID	Bacteria Present ⁷	Total Coliform Detected/ Fecal Coliform Not Detected ⁷	Total Coliform & Fecal Coliform Detected ⁸
			MCL: 15 ⁹	PRG: NONE ¹⁰	50	NONE	50	15	30 ⁵	Less Risk			Some Risk	More Risk							
32	RV990329CVS006	Spring	4.30	3.43	7.78E-005	3.33E-005	1.11E-004	1.70	3.5	0	4.39			IICR, HI	SOME	22	32	Yes	Yes		
33	RV990614CVS019	Spring	13.60	4.59	0.00E+000	2.47E-005	2.47E-005	1.72	0	0	18.20			IICR, HI	SOME	33	33				
34	RV990519CVW005	Well	84.60	40.30	2.18E-004	1.22E-004	3.40E-004	3.20	9.8	0	83.71			Total U	MORE	54	34				
35	RV990331CVW003	Well	3.06	3.84	1.27E-004	9.96E-006	1.37E-004	1.16	5.7	1.4	7.49			IICR, HI	SOME	31	35				
36	RV990517CVW004	Well	35.50	17.60	1.40E-004	6.08E-005	2.01E-004	3.18	6.3	3.2	34.73			Total U	MORE	51	36				
37	RV990324CVS001	Spring	7.46	7.04	1.13E-004	1.98E-005	1.33E-004	0.70	5.1	0	14.49			IICR	SOME	36	37	Yes			
38	RV990329CVS005	Spring	26.10	8.70	1.29E-004	3.03E-005	1.59E-004	1.27	5.8	0	23.40			IICR, HI	SOME	42	38	No	No	No	
39	RV990324CVW001	Well	1.29	6.45	9.11E-005	1.25E-005	1.04E-004	0.48	4.1	0	0.00			IICR	SOME	17	39	No	No	No	
40	RV990330CVS010	Spring	100.00	47.50	1.78E-004	1.52E-004	3.30E-004	1.16	8.0	0	125.34			Total U	MORE	56	40				
41	RV990412CVS011	Spring	2.12	5.12	0.00E+000	4.19E-005	4.19E-005	0.41	0	8.9	0.39			IICR, Lead	SOME	35	41				
42	RV990330CVS009	Spring	8.88	4.32	9.33E-005	2.53E-005	1.19E-004	2.12	4.2	0	9.87			IICR, HI	SOME	30	42				
43	RV990519CVS018	Spring	17.00	6.32	7.11E-005	2.27E-005	9.38E-005	1.98	3.2	0	17.39			IICR, HI	SOME	38	43				
44	RV990330CVS008	Spring	3.03	4.97	9.11E-005	2.77E-005	1.19E-004	0.53	4.1	0	8.73			IICR	SOME	27	44				
45	RV990325CVS002	Spring	2.43	2.18	0.00E+000	6.01E-006	6.01E-006	0.09	0	1.2	3.08		X		LESS	9	45				
46	RV990831SWS001	Spring	6.30	3.90	1.35E-004	1.41E-005	1.49E-004	0.67	6.1	0.9	10.70			IICR	SOME	34	46				
47	RV990901SWW001	Well	12.80	6.70	2.53E-004	2.17E-005	2.75E-004	1.30	11.4	0	18.50			IICR, HI	SOME	44	47				
48	RV990901SWW002	Well	12.00	4.50	4.93E-004	1.06E-005	5.04E-004	2.35	22.2	0	8.60			IICR, HI	SOME	45	48				
49	RV990903RVS012	Spring	1.20	3.00	0.00E+000	1.41E-005	1.41E-005	0.08	0	0	9.10			IICR	SOME	21	49				
50	RV990903RVS013	Spring	0	0.40	0.00E+000	2.02E-006	2.02E-006	0.03	0	0	0.60		X		LESS	2	50				
51	RV990903RVW009	Well	7.90	3.90	5.11E-005	1.08E-005	6.20E-005	0.48	2.3	0	7.20			IICR	SOME	23	51				
52	RV990907SWW003	Well	40.30	22.50	6.00E-005	8.52E-005	1.45E-004	0.29	2.7	0	76.00			Total U	MORE	53	52				
53	RV990907SWW004	Well	18.60	15.50	0.00E+000	1.65E-004	1.65E-004	0.11	0	0	32.30			Total U	MORE	47	53				
54	RV990907SWW005	Well	15.50	13.60	0.00E+000	3.38E-005	3.38E-005	0.11	0	0	27.20			IICR	SOME	40	54				
55	RV990907SWW006	Well	11.60	6.70	0.00E+000	3.24E-005	3.24E-005	0.05	0	0	20.10			IICR	SOME	37	55				
56	RV991019CVM010	Mine	99.10	39.80	2.33E-003	4.19E-004	2.75E-003	94.32	105.0	0	67.45			IICR, HI, Total U	MORE	59	56	Yes	Yes	No	
57	RV991020CVM012	Mine	1,020.00	405.00	1.84E-003	1.31E-003	3.15E-003	28.80	82.8	0	879.00			IICR, HI, Total U	MORE	62	57	Yes	Yes		
58	RV991026CVM013	Mine	459.00	125.00	1.73E-004	1.07E-003	1.25E-003	2.34	7.8	0	419.66			IICR, Total U	MORE	61	58				
59	RV991026CVS021	Spring	0.45	1.35	0.00E+000	1.19E-006	1.19E-006	1.56	0	0	0.00			HI	SOME	12	59				
60	RV991201RVW013	Well	12.20	14.10	1.75E-004	3.86E-005	2.14E-004	0.89	7.9	0	32.80			Total U	MORE	48	60	Yes	Yes	Yes	
61	RV991201RVW012	Well	4.30	1.80	9.36E-005	1.63E-005	1.10E-004	0.61	4.2	0	9.30			IICR	SOME	28	61	No	No	No	
62	RV991201RVW011	Well	0.40	0	0.00E+000	2.58E-006	2.58E-006	0.00	0	0	1.00		X		LESS	3	62	Yes	Yes		

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2. The PRG's and MCL's for Alpha, Beta, and Uranium are in Pico-Curies per Liter (pCi/L).

3. The PRG's and MCL's for Lead and Arsenic are in Micrograms per Liter (ug/L).

4. Water Quality Levels:

- Less Risk Total Cancer Risk is less than or equal to 1E-05 and Hazard Index is less than or equal to 1 and Lead is less than 4 and total U less than 30.
- Some Risk Total Cancer Risk is less than or equal to 6E-04 but greater than 1E-05 or Hazard Index is less than 10 but greater than 1 or Lead is less than 15 but greater than 4 and total U less than 30.
- More Risk Total Cancer Risk is greater than 6E-04 or Hazard Index is greater than 10 or Lead is greater than 15 or total U equal to or greater than 30.

The three categories will be color coded on the associated map to be published with the final document.

5. Proposed EPA MCL is 30 pCi/L for the sum of three U isotopes.

6. The definitions of the risk categories and the ranking will be fully described and published in the final report.

7. No change in water quality assessment with respect to stable and radioactive metals results.

8. In accordance with USEPA emergency response procedures for purifying bacteria - impacted water, please use the following methods of emergency disinfection. These methods will not remove stable metals or radionuclides from water.

Boiling: Vigorous boiling for one minute will kill any disease-causing microorganisms present in water. The flat taste of boiled water can be improved by pouring it back and forth from one container to another (called aeration), by allowing it to stand for a few hours, or by adding a small pinch of salt for each quart of water boiled.

Chemical Treatment: When boiling is not practical, chemical disinfection should be used. The two chemicals commonly used are chlorine and iodine. Chlorine and iodine are somewhat effective in protecting against exposure to Giardia, but may not be effective in controlling Cryptosporidium.

Therefore, use iodine or chlorine only to disinfect well water (as opposed to surface water sources such as rivers, lakes, and springs), because well water is unlikely to contain these disease causing organisms. Chlorine is generally more effective than iodine in controlling Giardia, and both disinfectants work much better in warmer water.

Chlorine Bleach: Common household bleach contains a chlorine compound that will disinfect water. The procedure to be followed is usually written on the label. When the necessary procedure is not given, find the percentage of available chlorine on the label and use the information in the following tabulation as a guide.

Available Chlorine	1%	4-6%	7-10%
Drops per Quart of Clear Water	10	2	1

(If strength is unknown, add ten drops per quart of water. Double amount of chlorine for cloudy or colored water.) The treated water should be mixed thoroughly and allowed to stand for 30 minutes. The water should have a slight chlorine odor, if not, repeat the dosage and allow the water to stand for an additional 15 minutes.

If the treated water has too strong a chlorine taste, it can be made more pleasing by allowing the water to stand exposed to the air for a few hours or by pouring it from one clean container to another several times.

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Navajo Lands**

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**Water Quality Analysis: Stable and Radioactive Metals
In Order of Risk Ranking**

Map ID	Sample ID	Field Type	Alpha ² MCL: ⁹ PRG: ¹⁰	Beta ² 50 NONE	ILCR for Stable Metals ¹	ILCR for Rad Metals ¹	Total Cancer Risk	Hazard Index (HI)	Arsenic ³ 50 0.045	Lead ³ 15 4	Total U ² 30 ⁵ NONE	Water Quality with Respect to Stable and Radioactive Metals ⁴			Risk Category	Risk Ranking ⁶	Map ID	Bacteria Present ⁷	Total Coliform Detected/ Fecal Coliform Not Detected ⁷	Total Coliform & Fecal Coliform Detected ⁸
												Less Risk	Some Risk	More Risk						
6	RV990318TNW004	Well	0.79	4.07	0.00E+000	2.77E-006	2.77E-006	0.09	0	0	0.00	X		LESS	1	6				
50	RV990903RVS013	Spring	0	0.40	0.00E+000	2.02E-006	2.02E-006	0.03	0	0	0.60	X		LESS	2	50				
62	RV991201RVW011	Well	0.40	0	0.00E+000	2.58E-006	2.58E-006	0.00	0	0	1.00	X		LESS	3	62	Yes	Yes		
13	RV990413RVS009	Spring	0.92	1.87	0.00E+000	6.54E-006	6.54E-006	0.28	0	0	2.33	X		LESS	4	13				
9	RV990318TNS003	Spring	3.00	3.40	0.00E+000	7.91E-006	7.91E-006	0.18	0	0	2.93	X		LESS	5	9				
17	RV990325CVS003	Spring	4.31	0.70	0.00E+000	6.49E-006	6.49E-006	0.07	0	0	3.39	X		LESS	6	17				
16	RV990407RVS003	Spring	2.31	1.49	0.00E+000	5.85E-006	5.85E-006	0.07	0	1.2	2.42	X		LESS	7	16				
27	RV990518CVS013	Spring	3.19	2.80	0.00E+000	8.06E-006	8.06E-006	0.35	0	0	5.09	X		LESS	8	27				
45	RV990325CVS002	Spring	2.43	2.18	0.00E+000	6.01E-006	6.01E-006	0.09	0	1.2	3.08	X		LESS	9	45				
14	RV990407RVS002	Spring	2.56	2.82	0.00E+000	5.61E-006	5.61E-006	0.28	0	2.2	1.85	X		LESS	10	14				
11	RV990407RVS004	Spring	1.77	1.65	0.00E+000	4.15E-006	4.15E-006	0.55	0	3.2	2.34	X		LESS	11	11				
59	RV991026CVS021	Spring	0.45	1.35	0.00E+000	1.19E-006	1.19E-006	1.56	0	0	0.00		HI	SOME	12	59				
4	RV990317TNW003	Well	0.13	1.83	0.00E+000	1.53E-006	1.53E-006	1.99	0	0	0.40		HI	SOME	13	4				
12	RV990610RVS010	Spring	3.85	1.90	0.00E+000	8.50E-006	8.50E-006	1.67	0	0	2.95		HI	SOME	14	12				
8	RV990318TNS002	Spring	1.86	1.58	0.00E+000	2.48E-005	2.48E-005	0.06	0	0	3.22		IICR	SOME	15	8				
19	RV990413RVS007	Spring	1.54	4.28	0.00E+000	2.59E-005	2.59E-005	0.41	0	0	3.79		IICR	SOME	16	19	Yes	Yes		
39	RV990324CVW001	Well	1.29	6.45	9.11E-005	1.25E-005	1.04E-004	0.48	4.1	0	0.00		IICR	SOME	17	39	No	No	No	
15	RV990610RVS011	Stream	2.27	1.98	5.78E-005	9.11E-006	6.69E-005	2.01	2.6	0	2.99		IICR, HI	SOME	18	15				
1	RV990317TNW001	Well	8.94	3.82	0.00E+000	1.54E-005	1.54E-005	0.09	0	0	6.61		IICR	SOME	19	1				
20	RV990413RVS008	Spring	3.59	5.27	0.00E+000	1.44E-005	1.44E-005	0.35	0	1.4	6.27		IICR	SOME	20	20	Yes	Yes		
49	RV990903RVS012	Spring	1.20	3.00	0.00E+000	1.41E-005	1.41E-005	0.08	0	0	9.10		IICR	SOME	21	49				
32	RV990329CVS006	Spring	4.30	3.43	7.78E-005	3.33E-005	1.11E-004	1.70	3.5	0	4.39		IICR, HI	SOME	22	32	Yes	Yes		
51	RV990903RVW009	Well	7.90	3.90	5.11E-005	1.08E-005	6.20E-005	0.48	2.3	0	7.20		IICR	SOME	23	51				
5	RV990323TNS004	Spring	6.80	25.30	0.00E+000	1.18E-005	1.18E-005	0.08	0	1.8	7.37		IICR	SOME	24	5				
7	RV990318TNW005	Well	11.50	4.53	9.33E-005	4.26E-005	1.36E-004	2.84	4.2	0	7.00		IICR, HI	SOME	25	7				
28	RV990517CVS012	Spring	5.90	5.44	1.33E-004	1.31E-005	1.46E-004	2.57	6.0	0	7.26		IICR, HI	SOME	26	28				
44	RV990330CVS008	Spring	3.03	4.97	9.11E-005	2.77E-005	1.19E-004	0.53	4.1	0	8.73		IICR	SOME	27	44				
61	RV991201RVW012	Well	4.30	1.80	9.36E-005	1.63E-005	1.10E-004	0.61	4.2	0	9.30		IICR	SOME	28	61	No	No	No	
23	RV990406RVW003	Well	0	2.17	2.02E-004	3.26E-006	2.05E-004	2.39	9.1	2.6	0.00		IICR, HI	SOME	29	23	No	No	No	
42	RV990330CVS009	Spring	8.88	4.32	9.33E-005	2.53E-005	1.19E-004	2.12	4.2	0	9.87		IICR, HI	SOME	30	42				
35	RV990331CVW003	Well	3.06	3.84	1.27E-004	9.96E-006	1.37E-004	1.16	5.7	1.4	7.49		IICR, HI	SOME	31	35				
10	RV990615RVW007	Well	6.50	2.69	0.00E+000	1.28E-005	1.28E-005	0.24	0	4.8	7.01		IICR, Lead	SOME	32	10	Yes	Yes	Yes	

1. ILCR = Incremental Lifetime Cancer Risk with Respect to Stable Metals and Radioactive Metals.

2. The PRG's and MCL's for Alpha, Beta, and Uranium are in Pico-Curies per Liter (pCi/L).

3. The PRG's and MCL's for Lead and Arsenic are in Micrograms per Liter (ug/L).

4. Water Quality Levels:

- Less Risk Total Cancer Risk is less than or equal to 1E-05 and Hazard Index is less than or equal to 1 and Lead is less than 4 and total U less than 30.
- Some Risk Total Cancer Risk is less than or equal to 6E-04 but greater than 1E-05 or Hazard Index is less than 10 but greater than 1 or Lead is less than 15 but greater than 4 and total U less than 30.
- More Risk Total Cancer Risk is greater than 6E-04 or Hazard Index is greater than 10 or Lead is greater than 15 or total U equal to or greater than 30.

The three categories will be color coded on the associated map to be published with the final document.

5. Proposed EPA MCL is 30 pCi/L for the sum of three U isotopes.

6. The definitions of the risk categories and the ranking will be fully described and published in the final report.

7. No change in water quality assessment with respect to stable and radioactive metals results.

8. In accordance with USEPA emergency response procedures for purifying bacteria - impacted water, please use the following methods of emergency disinfection. These methods will not remove stable metals or radionuclides from water.

Boiling: Vigorous boiling for one minute will kill any disease-causing microorganisms present in water. The flat taste of boiled water can be improved by pouring it back and forth from one container to another (called aeration), by allowing it to stand for a few hours, or by adding a small pinch of salt for each quart of water boiled.

Chemical Treatment: When boiling is not practical, chemical disinfection should be used. The two chemicals commonly used are chlorine and iodine. Chlorine and iodine are somewhat effective in protecting against exposure to Giardia, but may not be effective in controlling Cryptosporidium.

Therefore, use iodine or chlorine only to disinfect well water (as opposed to surface water sources such as rivers, lakes, and springs), because well water is unlikely to contain these disease causing organisms. Chlorine is generally more effective than iodine in controlling Giardia, and both disinfectants work much better in warmer water.

Chlorine Bleach: Common household bleach contains a chlorine compound that will disinfect water. The procedure to be followed is usually written on the label. When the necessary procedure is not given, find the percentage of available chlorine on the label and use the information in the following tabulation as a guide.

Available Chlorine	1%	4-6%	7-10%
Drops per Quart of Clear Water	10	2	1

(If strength is unknown, add ten drops per quart of water. Double amount of chlorine for cloudy or colored water.) The treated water should be mixed thoroughly and allowed to stand for 30 minutes. The water should have a slight chlorine odor, if not, repeat the dosage and allow the water to stand for an additional 15 minutes.

If the treated water has too strong a chlorine taste, it can be made more pleasing by allowing the water to stand exposed to the air for a few hours or by pouring it from one clean container to another several times.

9. MCL- Maximum Contaminant Levels are the maximum permissible level of a contaminant in water delivered to users of a public water system. This level is not always based on health or risk criteria.

10. PRG- Preliminary Remediation Goals are tools for evaluating and cleaning up contaminated sites. They are risk-based concentrations derived from standardized equations, combining exposure information assumptions and EPA toxicity data.

**Abandoned Uranium Mines Project
Navajo Lands**

Four Corners Area

**Water Quality Analysis: Stable and Radioactive Metals
In Order of Risk Ranking**

Map ID	Sample ID	Field Type	Alpha ² MCL: ⁹ PRG: ¹⁰ 15 NONE	Beta ² 50 NONE	ILCR for Stable Metals ¹	ILCR for Rad Metals ¹	Total Cancer Risk	Hazard Index (HI)	Arsenic ³ 50 0.045	Lead ³ 15 4	Total U ² 30 ⁵ NONE	Water Quality with Respect to Stable and Radioactive Metals ⁴			Risk Category	Risk Ranking ⁶	Map ID	Bacteria Present ⁷	Total Coliform Detected/ Fecal Coliform Not Detected ⁷	Total Coliform & Fecal Coliform Detected ⁸
												Less Risk	Some Risk	More Risk						
33	RV990614CVS019	Spring	13.60	4.59	0.00E+000	2.47E-005	2.47E-005	1.72	0	0	18.20		ILCR, HI	SOME	33	33				
46	RV990831SWS001	Spring	6.30	3.90	1.35E-004	1.41E-005	1.49E-004	0.67	6.1	0.9	10.70		ILCR	SOME	34	46				
41	RV990412CVS011	Spring	2.12	5.12	0.00E+000	4.19E-005	4.19E-005	0.41	0	8.9	0.39		ILCR, Lead	SOME	35	41				
37	RV990324CVS001	Spring	7.46	7.04	1.13E-004	1.98E-005	1.33E-004	0.70	5.1	0	14.49		ILCR	SOME	36	37	Yes			
55	RV990907SWW006	Well	11.60	6.70	0.00E+000	3.24E-005	3.24E-005	0.05	0	0	20.10		ILCR	SOME	37	55				
43	RV990519CVS018	Spring	17.00	6.32	7.11E-005	2.27E-005	9.38E-005	1.98	3.2	0	17.39		ILCR, HI	SOME	38	43				
25	RV990329CVS004	Spring	4.95	2.89	2.16E-004	2.52E-005	2.41E-004	2.81	9.7	1.7	8.91		ILCR, HI	SOME	39	25				
54	RV990907SWW005	Well	15.50	13.60	0.00E+000	3.38E-005	3.38E-005	0.11	0	0	27.20		ILCR	SOME	40	54				
24	RV990407RVS001	Spring	18.60	5.53	1.47E-004	2.17E-005	1.68E-004	1.13	6.6	2.8	16.03		ILCR, HI	SOME	41	24	No	No	No	
38	RV990329CVS005	Spring	26.10	8.70	1.29E-004	3.03E-005	1.59E-004	1.27	5.8	0	23.40		ILCR, HI	SOME	42	38	No	No	No	
2	RV990317TNW002	Well	10.30	3.17	4.07E-004	9.20E-006	4.16E-004	1.83	18.3	1.2	8.95		ILCR, HI	SOME	43	2				
47	RV990901SWW001	Well	12.80	6.70	2.53E-004	2.17E-005	2.75E-004	1.30	11.4	0	18.50		ILCR, HI	SOME	44	47				
48	RV990901SWW002	Well	12.00	4.50	4.93E-004	1.06E-005	5.04E-004	2.35	22.2	0	8.60		ILCR, HI	SOME	45	48				
21	RV990409RVS005	Spring	9.98	6.45	8.00E-005	3.09E-005	1.11E-004	1.32	3.6	11.5	15.10		ILCR, Lead, HI	SOME	46	21				
53	RV990907SWW004	Well	18.60	15.50	0.00E+000	1.65E-004	1.65E-004	0.11	0	0	32.30		Total U	MORE	47	53				
60	RV991201RVW013	Well	12.20	14.10	1.75E-004	3.86E-005	2.14E-004	0.89	7.9	0	32.80		Total U	MORE	48	60	Yes	Yes	Yes	
22	RV990519RVW005	Well	20.30	14.20	2.53E-004	4.20E-005	2.95E-004	1.38	11.4	0	30.37		Total U	MORE	49	22	Yes	Yes		
3	RV990317TNS001	Spring	45.40	16.00	0.00E+000	5.50E-005	5.50E-005	0.12	0	0	45.83		Total U	MORE	50	3				
36	RV990517CVW004	Well	35.50	17.60	1.40E-004	6.08E-005	2.01E-004	3.18	6.3	3.2	34.73		Total U	MORE	51	36				
29	RV990518CVS015	Stream	48.40	15.30	1.04E-004	7.19E-005	1.76E-004	0.65	4.7	0	51.31		Total U	MORE	52	29				
52	RV990907SWW003	Well	40.30	22.50	6.00E-005	8.52E-005	1.45E-004	0.29	2.7	0	76.00		Total U	MORE	53	52				
34	RV990519CVW005	Well	84.60	40.30	2.18E-004	1.22E-004	3.40E-004	3.20	9.8	0	83.71		Total U	MORE	54	34				
31	RV990518CVS017	Stream	108.00	47.10	1.02E-004	1.65E-004	2.67E-004	2.36	4.6	0	116.14		Total U	MORE	55	31				
40	RV990330CVS010	Spring	100.00	47.50	1.78E-004	1.52E-004	3.30E-004	1.16	8.0	0	125.34		Total U	MORE	56	40				
18	RV990519RVW004	Well	2.35	3.83	1.07E-004	6.54E-005	1.72E-004	1.44	4.8	67.8	2.93		Lead	MORE	57	18				
30	RV990518CVS016	Stream	133.00	44.60	1.64E-004	1.93E-004	3.57E-004	0.92	7.4	0	148.83		Total U	MORE	58	30				
56	RV991019CVM010	Mine	99.10	39.80	2.33E-003	4.19E-004	2.75E-003	94.32	105.0	0	67.45		ILCR, HI, Total U	MORE	59	56	Yes	Yes	No	
26	RV990518CVS014	Spring	3.60	5.98	9.56E-005	1.62E-004	2.58E-004	3.09	4.3	100.0	3.65		Lead	MORE	60	26				
58	RV991026CVM013	Mine	459.00	125.00	1.73E-004	1.07E-003	1.25E-003	2.34	7.8	0	419.66		ILCR, Total U	MORE	61	58				
57	RV991020CVM012	Mine	1,020.00	405.00	1.84E-003	1.31E-003	3.15E-003	28.80	82.8	0	879.00		ILCR, HI, Total U	MORE	62	57	Yes	Yes		

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