

**Table 17-1: Groundwater Quality Comparison with South Dakota Human Health Standards**

Parameter	Arsenic, Dissolved	Gross Alpha, Dissolved	Radium-226, Dissolved	Radon-222	Uranium, Dissolved	Chloride	pH	Sulfate	Total Dissolved Solids	
ARSD 74:54:01:04 Standard	0.01	15	5*	300	0.03	250	6.5-8.5	500	1000	
Units	mg/L	pCi/L	pCi/L	pCi/L	mg/L	mg/L	s.u.	mg/L	mg/L	
Fall River Wells										
Hydro ID	Sample ID									
5	R07090384-005	<0.001	2.5	1.6	NM	0.002	24	7.72	1500	2200
5	R07110303-001	<0.001	4.4	0.8	902	0.002	23	7.64	1370	2300
5	R08020082-001	<0.001	14.8	1.3	806	0.0021	26	7.91	1470	2300
5	R08040364-007	<0.001	13.2	1.3	1070	0.0017	20	8.2	1430	2200
5	n (exceedances)	0	0	0	3	0	0	0	4	4
7	R06100076-004	<0.01	17	2.6/300	NM	<0.001	13	8.08	546	1000
7	R07100002-009	<0.001	4.4	0.6	NM	<0.0003	12	8.13	586	1000
7	R07110146-002	<0.001	7.2	1.1	206	<0.0003	12	8.05	567	1000
7	R08020220-002	<0.001	15.5	0.7	242	<0.0003	11	8.14	583	990
7	R08050419-002	<0.001	3.3	0.9	451	<0.0003	11	8.17	514	960
7	n (exceedances)	0	2	1	1	0	0	0	5	0
8	R07090384-003	0.001	5	<0.2	NM	<0.0003	13	7.93	540	960
8	R07110303-005	<0.001	8.7	2.7	123	0.0003	12	7.95	594	1000
8	R08020052-001	<0.001	5.4	1.5	329	<0.0003	12	7.94	455	1000
8	R08050419-003	0.001	3.2	1.2	514	<0.0003	11	7.97	514	940
8	n (exceedances)	0	0	0	2	0	0	0	3	0
18	R06100076-001	<0.01	37	5.8	762	0.007	14	8.11	481	950
18	R07090384-001	0.002	15.7	<0.2	NM	0.0061	13	8.09	513	990
18	R07110146-004	0.001	18.9	3.2	945	0.0066	13	8.02	534	960
18	R08020130-003	0.001	31.7	3.2	1220	0.0066	14	8.11	537	960
18	R08050427-001	0.001	27.5	2.6	1210	0.0059	12	8.1	492	940
18	n (exceedances)	0	5	1	4	0	0	0	3	0
628	R07100002-001	0.001	29.9	7.4	NM	0.0017	82	8.66	1030	1800
628	R07110184-001	<0.001	83.9	20.7	2740	0.0034	35	7.77	635	1300
628	R08020220-005	0.001	64.5	9	4360	0.003	29	8.32	651	920
628	R08050419-004	0.001	39	6.1	5040	0.0027	42	8.21	515	980
628	n (exceedances)	0	4	4	3	0	0	1	4	2
631	R07090384-004	0.001	51	12.9	NM	0.0027	10	7.76	1240	1900
631	R07110184-004	<0.001	46.5	9.5	4220	0.0029	10	7.23	1220	2000
631	R08020220-003	<0.001	162	19.4	3920	0.0027	8	7.6	1250	2000
631	R08050251-001	<0.001	60.7	22.1	4430	0.0026	10	7.54	1250	2000
631	n (exceedances)	0	4	4	3	0	0	0	4	4
681	R08010296-002	0.003	656	421	462000	0.0117	13	7.98	498	930
681	R08030315-008	0.002	2170	414	254000	0.0092	17	7.8	478	910
681	R08040250-006	0.002	1400	377	253000	0.0098	13	8.02	466	940
681	R08050143-001	0.002	2220	407	246	0.0095	15	7.91	449	900
681	R08050229-001	0.002	1220	423	462000	0.0096	16	8.15	465	890
681	R08060452-003	0.002	1390	434	389000	0.0097	15	7.99	449	880
681	R08070035-005	0.002	1180	357	281000	0.0094	16	7.85	457	920
681	R08070244-009	0.002	2170	418	244000	0.0097	17	7.85	619	920
681	R08080301-004	0.002	1430	362	318000	0.01	16	8.01	489	920
681	R08090356-002	0.002	1180	445	304000	0.0093	16	7.84	515	890
681	R08100295-009	0.003	1440	356	344000	0.0094	17	8.06	491	880
681	R08110211-012	0.002	1850	398	335000	0.0098	16	8.16	478	900
681	R08120255-002	0.001	1560	291	2200	0.0083	15	7.82	453	900
681	R09010301-007	0.002	1210	258	133000	0.0081	13	7.85	465	940
681	R09020293-011	0.002	1460	336	389000	0.0092	13	7.83	479	900
681	n (exceedances)	0	15	15	14	0	0	0	1	0
688	R08040058-001	0.001	2.9	0.3	608	<0.0003	13	10.3	428	690
688	R08040287-002	0.002	10.1	1.2	307	<0.0003	10	9.15	390	690
688	R08060210-002	0.001	17.3	2.5	749	<0.0003	11	8.82	398	740
688	R08070005-002	0.002	13.2	0.6	426	<0.0003	11	8.6	407	770
688	R08070115-006	0.001	29.8	6.7	227	<0.0003	11	8.33	413	780
688	R08070471-001	0.001	3.9	0.6	1160	<0.0003	11	8.21	445	790
688	R08080332-001	<0.001	11.8	1.7	449	<0.0003	11	8.35	425	810
688	R08100014-001	0.001	4.9	0.6	535	<0.0003	11	7.9	422	790
688	R08100295-005	0.001	10.2	1.6	184	<0.0003	12	8.15	450	810
688	R08110211-004	0.002	15	2.7	162	<0.0003	12	8.19	421	780
688	R08120281-001	0.002	1.9	0.7	81.1	<0.0003	12	7.87	435	780
688	R09010301-012	0.002	25.6	3.8	152	<0.0003	11	8	436	800
688	R09020293-006	0.002	28.7	7.9	218	<0.0003	11	8.03	460	830
688	n (exceedances)	0	4	2	7	0	0	4	0	0

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Parameter	Arsenic, Dissolved	Gross Alpha, Dissolved	Radium-226, Dissolved	Radon-222	Uranium, Dissolved	Chloride	pH	Sulfate	Total Dissolved Solids
ARSD 74:54:01:04 Standard	0.01	15	5*	300	0.03	250	6.5-8.5	500	1000
Units	mg/L	pCi/L	pCi/L	pCi/L	mg/L	mg/L	s.u.	mg/L	mg/L
694 R08040002-001	0.002	3.9	1	190	<0.0003	15	8.71	475	880
694 R08040287-007	0.001	5.2	0.5	185	<0.0003	12	8.47	475	930
694 R08050321-001	<0.001	14.3	1.8	497	<0.0003	12	8.35	505	930
694 R08060427-002	<0.001	23.9	3.3	517	<0.0003	12	8.29	456	920
694 R08070244-004	<0.001	4	0.4	228	<0.0003	13	8.19	526	930
694 R08080332-006	<0.001	7.1	1.3	343	<0.0003	13	8.29	495	930
694 R08090356-006	<0.001	5.9	1.5	214	<0.0003	12	8.15	506	920
694 R08100295-014	<0.001	9.8	0.8	260	<0.0003	13	8.26	493	950
694 R08110211-002	<0.001	6.9	0.8	222	<0.0003	13	8.03	476	790
694 R08120255-012	<0.001	8.2	0.8	182	<0.0003	13	8.14	459	900
694 R09010301-013	<0.001	20.2	1	250	<0.0003	12	8.05	483	920
694 R09020293-015	<0.001	4.3	1.3	234	<0.0003	12	8.08	470	920
694 n (exceedances)	0	2	0	3	0	0	1	3	0
695 R08040002-003	<0.001	52.2	6.3	1400	0.003	14	8.16	476	870
695 R08040287-001	0.001	29.4	5	1400	0.0029	11	8.08	504	910
695 R08050321-003	0.001	25.6	3.7	2090	0.0029	11	7.91	530	920
695 R08060427-004	<0.001	39.7	5.2	2120	0.0027	11	8.14	442	920
695 R08070244-003	<0.001	28.2	4.7	1490	0.0028	12	7.98	534	950
695 R08080332-005	<0.001	21.6	3.9	1950	0.0026	12	8.08	466	900
695 R08090356-008	<0.001	15.9	5.9	1820	0.0027	12	7.93	514	880
695 R08100295-012	0.001	27.8	4	1860	0.003	13	8.07	478	1100
695 R08110211-009	<0.001	19.2	4.8	2020	0.0029	13	8.18	481	940
695 R08120255-010	<0.001	26.8	4.8	1880	0.0026	12	7.93	483	890
695 R09010301-005	<0.001	35.8	4.5	1840	0.0031	12	7.81	500	910
695 R09020293-013	<0.001	18.7	4.7	1600	0.0028	12	7.86	494	910
695 n (exceedances)	0	12	3	12	0	0	0	4	1
698 R08030315-002	<0.001	1750	387	32200	0.109	12	6.91	1300	2200
698 R08040287-004	<0.001	2110	370	25800	0.11	9	7.15	1450	2300
698 R08050406-001	<0.001	1210	413	25600	0.101	9	6.78	1270	2200
698 R08060427-001	<0.001	1790	429	40700	0.104	9	7.09	1470	2100
698 R08070244-010	<0.001	1790	423	27900	0.119	10	7.72	1530	2300
698 R08080301-003	<0.001	1560	372	38200	0.113	10	7.27	1290	2300
698 R08090314-003	<0.001	36.3	410	29500	0.103	9	7.02	1470	2200
698 R08100295-004	<0.001	1330	347	38200	0.103	10	7.34	1380	2300
698 R08110211-008	<0.001	1680	403	37400	0.106	10	7.42	1360	2200
698 R08120255-005	<0.001	1570	363	37600	0.0998	10	6.92	1340	2200
698 R09010301-009	<0.001	1960	386	32100	0.1	10	6.74	1340	1700
698 R09020293-004	<0.001	1270	355	38400	0.108	9	6.82	1240	2200
698 n (exceedances)	0	12	12	12	12	0	0	12	12
706 R10010180-002	0.003	39.7	2.7	270	0.0089	10	7.63	714	1200
706 R10020266-002	0.003	37.9	2.3	313	0.0079	9.9	7.57	677	1300
706 R10030205-003	0.001	11.2	2.9	319	0.0078	10	7.48	666	1200
706 R10040303-002	0.001	56.3	4.3	303	0.0084	9	7.5	659	1200
706 R10050253-002	0.001	40.1	1.9	303	0.0086	10	7.47	694	1100
706 R10060444-002	0.001	34	2.5	338	0.0087	9	7.5	640	1100
706 R10070459-002	<0.001	31.6	2.6	373	0.0069	9	7.51	658	1200
706 R10080398-002	0.001	21.9	2.7	342	0.0087	10	7.53	708	1300
706 R10090519-002	0.001	20.5	2	300	0.0081	10	7.44	687	1200
706 R10100355-002	0.001	19.3	2.2	254	0.0086	9	7.59	648	1200
706 R10110179-002	<0.001	24.5	2.4	683	0.0082	10	7.35	689	1200
706 R10120179-002	<0.001	18.2	2.5	241	0.0083	10	7.3	682	1200
706 n (exceedances)	0	11	0	8	0	0	0	12	12
<b>Chilson Wells</b>									
Hydro ID	Sample ID								
2	R07090384-002	0.001	1.4	<0.2	NM	<0.0003	10	7.91	583
2	R07110146-003	<0.001	8.7	1.3	674	<0.0003	11	7.85	577
2	R08020130-001	<0.001	6.7	1.1	792	<0.0003	11	7.93	639
2	R08050427-003	<0.001	8.2	2.1	727	<0.0003	9	7.92	579
2	n (exceedances)	0	0	0	3	0	0	0	4
13	R06100076-005	<0.01	12	2.1	335	<0.001	11	7.93	460
13	R07090385-005	<0.001	8.9	1.8	NM	<0.0003	11	7.83	488
13	R07110146-007	<0.001	7.5	1.6	305	<0.0003	11	7.75	520
13	R08020220-004	<0.001	19.5	1.1	258	<0.0003	10	8.05	499
13	R08050251-002	<0.001	4.2	1.6	412	<0.0003	10	7.96	442
13	n (exceedances)	0	1	0	3	0	0	1	0

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ARSD 74:54:01:04 Standard	0.01	15	5*	300	0.03	250	6.5-8.5	500	1000
Units	mg/L	pCi/L	pCi/L	pCi/L	mg/L	mg/L	s.u.	mg/L	mg/L
16 R06100076-006	<0.01	110	33.6/770	39000	0.002	6.2	7.44	522	940
16 R07090385-002	0.001	62.7	26.2	NM	0.0021	5	7.43	448	810
16 R07110146-010	<0.001	12.2	8.1	1090	0.0007	5	7.48	428	760
16 R08030315-004	<0.001	85.7	15.3	28200	0.0007	5	7.57	449	780
16 R08070005-001	0.001	28.3	6.4	3150	<0.0003	4	7.38	401	780
16 n (exceedances)	0	4	5	4	0	0	0	1	0
42 R06100076-002	<0.01	560	87.6/1600	197000	0.04	14	8.01	473	940
42 R07100002-003	<0.001	371	96.5	NM	0.015	12	8.02	505	960
42 R07110146-006	<0.001	375	102	132000	0.0324	13	7.95	519	940
42 R08020052-004	0.001	526	100	175000	0.0194	12	8.08	505	980
42 R08050427-002	<0.001	558	100	219000	0.0142	11	8.05	466	930
42 n (exceedances)	0	5	5	4	2	0	0	3	0
615 R08040028-001	0.02	18.2	1.8	1490	0.0026	6	7.36	378	670
615 R08040250-004	0.02	15.1	2	1180	0.0025	4	7.43	371	750
615 R08050406-005	0.013	15.3	2	1070	0.0024	5	7.16	399	710
615 R08060452-002	0.016	38.3	7.2	1830	0.0024	5	7.48	369	680
615 R08070244-002	0.018	15.3	1.2	1420	0.0025	5	7.29	430	710
615 R08080332-004	0.018	17.3	1.8	1880	0.0023	5	8.03	401	740
615 R08090314-005	0.02	21.5	2	1500	0.0026	5	7.49	421	670
615 R08100295-010	0.012	20.9	2.7	1890	0.0023	5	7.77	414	720
615 R08110211-013	0.012	13.9	1.9	1800	0.0026	5	8.04	391	700
615 R08120255-013	0.011	21.7	2.1	1710	0.0023	5	7.34	388	700
615 R09010301-004	0.014	21.1	1.8	1630	0.0027	5	7.19	389	720
615 R09020293-009	0.012	14.8	2.3	1590	0.0025	5	7.23	398	730
615 n (exceedances)	12	11	1	12	0	0	0	0	0
619 R07090385-001	<0.001	367	120	NM	0.002	9	7.03	1440	2100
619 R07110146-008	<0.001	341	100	2990	0.0015	10	7.03	1180	1900
619 R08030253-002	<0.001	438	99.7	5580	0.0015	12	7.25	1310	2100
619 R08060335-001	0.001	398	110	5770	0.0016	9	7.82	1230	2000
619 n (exceedances)	0	4	4	3	0	0	0	4	4
622 R08040028-003	<0.001	15	2.3	501	<0.0003	12	8.15	470	800
622 R08040250-003	0.001	22.6	2.7	1090	0.0054	10	7.85	487	940
622 R08050406-004	<0.001	32.6	3.2	804	0.0056	10	7.52	493	890
622 R08060452-001	<0.001	36.4	4.1	1950	0.0051	10	7.95	481	900
622 R08070244-001	0.001	31.2	2.9	824	0.0052	10	7.68	478	950
622 R08080332-003	<0.001	27.7	4.4	1370	0.005	10	7.84	504	920
622 R08090314-004	<0.001	1470	3	992	0.0055	10	7.78	528	910
622 R08100295-006	<0.001	29.3	2.7	1360	0.0052	10	7.95	510	920
622 R08110211-014	<0.001	32.6	2.9	1280	0.0055	11	8.01	480	890
622 R08120255-008	<0.001	6.8	1.3	50.2	<0.0003	10	7.46	476	880
622 R09010301-002	<0.001	36.4	2.9	1180	0.0029	10	7.46	499	900
622 R09020293-008	<0.001	44.3	7.9	1360	0.0053	10	7.58	495	900
622 n (exceedances)	0	10	1	11	0	0	0	3	0
650 R07100002-010	0.002	13.1	2.7	NM	0.0019	17	7.04	1320	2000
650 R07110146-009	<0.001	5.6	2.4	134	<0.0003	16	7.22	1000	1600
650 R08030253-001	<0.001	2.9	1.4	202	<0.0003	19	7.4	801	1300
650 R08050427-004	<0.001	2.1	1.2	254	<0.0003	16	7.3	825	1400
650 n (exceedances)	0	0	0	0	0	0	0	4	4
680 R08010296-001	0.026	4090	1180	143000	0.172	15	7.26	1420	2400
680 R08040002-002	0.008	6440	1150	71800	0.0569	15	7.31	1280	2200
680 R08040250-007	0.007	4270	1230	81000	0.0303	11	7.56	1360	2300
680 R08050199-001	0.004	6500	1430	151000	0.0213	12	7.14	1200	2300
680 R08050321-002	0.004	4500	1240	359000	0.026	12	7.08	1370	2300
680 R08060210-001	0.002	4370	1410	91700	0.0227	12	7.32	1410	2500
680 R08070115-002	0.002	4280	1280	72000	0.0186	12	7.27	1260	2300
680 R08080332-002	0.002	4330	1270	112000	0.0188	13	7.65	1430	2300
680 R08090314-001	0.002	5470	1440	72700	0.0191	12	7.24	1400	2300
680 R08100295-003	0.001	4200	1190	74300	0.0176	14	7.6	1380	2100
680 R08110211-005	0.002	4410	1430	86200	0.0196	14	7.86	1330	2300
680 R08120255-007	<0.001	5140	1110	62200	0.0199	13	7.23	1310	2300
680 R09010301-011	<0.001	6730	1360	48000	0.0205	13	7.12	1370	2200
680 R09020293-007	0.002	5140	1330	56800	0.0185	13	7.16	1400	2300
680 n (exceedances)	1	14	14	14	3	0	0	14	14
689 R08030315-007	<0.001	64.3	7.9	1950	0.0032	7	7.85	421	720
689 R08040250-005	0.001	25.5	4.2	1540	0.0037	5	8.02	374	760

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ARSD 74:54:01:04 Standard	0.01	15	5*	300	0.03	250	6.5-8.5	500	1000	
Units	mg/L	pCi/L	pCi/L	pCi/L	mg/L	mg/L	s.u.	mg/L	mg/L	
689	R08050406-006	0.001	34.9	5.7	1390	0.0043	5	7.8	400	730
689	R08060452-004	0.001	36.5	5.5	2520	0.0034	5	8.08	366	700
689	R08070035-006	0.001	33.4	7.7	1820	0.0032	5	7.84	354	710
689	R08070244-008	<0.02	36	6.1	1670	0.0034	5	7.83	420	730
689	R08080301-005	<0.001	36.4	4.4	2520	0.0034	5	7.96	399	710
689	R08090356-001	0.001	30.9	7.5	1520	0.003	5	7.77	362	700
689	R08100295-008	0.002	40	6.4	2410	0.0031	5	8.11	392	730
689	R08110211-011	<0.001	37.9	6.6	2580	0.0033	5	8.45	379	660
689	R08120255-003	0.001	54.6	6.2	1130	0.005	6	7.9	408	750
689	R09010301-008	0.001	52.8	6.1	1850	0.0035	5	7.71	399	780
689	R09020293-010	<0.001	23.9	5.4	1810	0.003	5	7.77	380	690
689	n (exceedances)	0	13	11	13	0	0	0	0	0
696	R08030315-001	0.002	8.8	1.6	313	0.0005	11	7.65	531	970
696	R08040250-001	0.002	19.2	4.2	251	0.0005	9	7.94	512	1000
696	R08050321-004	0.002	10.6	1.9	619	0.0006	9	7.54	493	970
696	R08060427-003	0.001	23.7	2.2	611	0.0006	9	7.82	486	960
696	R08070244-005	0.002	15.1	2.3	245	0.0007	9	7.73	528	980
696	R08080332-007	<0.001	12.5	1.8	401	0.0005	9	7.81	540	990
696	R08090356-005	0.002	7.4	1.7	296	0.0005	9	7.63	533	950
696	R08100295-013	0.002	9.1	1.4	281	0.0006	9	7.96	519	1100
696	R08110211-003	0.001	9.2	1.7	331	0.0006	9	7.93	484	980
696	R08120255-011	<0.001	9.3	1.5	215	0.0005	9	7.7	507	960
696	R09010301-014	0.001	25.9	1.7	270	0.0006	9	7.55	508	960
696	R09020293-014	0.001	8.3	2.2	235	0.0005	9	7.55	518	970
696	n (exceedances)	0	4	0	5	0	0	9	1	1
697	R08030315-006	0.001	6.1	1.5	323	<0.0003	10	7.83	452	800
697	R08040287-005	0.001	8.4	1.7	284	<0.0003	8	8.07	430	810
697	R08050321-005	0.002	4.1	1.1	570	<0.0003	8	7.9	456	790
697	R08060427-005	0.002	11.9	0.8	413	<0.0003	8	8.25	409	810
697	R08070244-006	0.002	6.9	0.9	295	<0.0003	8	7.93	470	830
697	R08080332-008	<0.001	5.3	1.2	367	<0.0003	8	8.03	452	840
697	R08090356-004	0.001	6.3	1	313	<0.0003	8	7.83	435	810
697	R08100295-011	0.001	7.3	0.6	319	<0.0003	8	8.15	560	1000
697	R08110211-010	0.001	12.7	1.7	412	<0.0003	9	8.24	430	820
697	R08120255-009	<0.001	7.7	1.2	200	<0.0003	8	7.98	442	810
697	R09010301-006	0.001	21.7	0.9	299	<0.0003	8	7.73	444	820
697	R09020293-012	<0.001	18.2	5.6	236	<0.0003	8	7.9	436	820
697	n (exceedances)	0	2	1	7	0	0	1	0	0
705	R10010180-001	<0.001	3	0.6	206	<0.0003	7	9.03	513	770
705	R10020266-001	<0.001	1.1	0.8	<100	<0.0003	7.2	9.34	495	840
705	R10030205-001	<0.001	8.6	2.1	260	<0.0003	8	7.93	509	1000
705	R10040303-001	0.001	7.5	1.8	<100	<0.0003	7	8.04	521	970
705	R10050253-001	<0.001	3.9	1.6	157	<0.0003	8	7.91	542	840
705	R10060444-001	<0.001	6.2	1.8	243	<0.0003	7	7.86	524	910
705	R10070459-001	<0.001	6.7	1.8	247	0.0007	7	7.84	534	950
705	R10080398-001	<0.001	8.9	1.8	238	<0.0003	8	7.88	575	1100
705	R10090519-001	<0.001	-3	1.8	232	<0.0003	8	7.77	545	990
705	R10100355-001	0.001	-0.6	2.4	202	<0.0003	7	7.77	524	940
705	R10110179-001	0.001	0.7	2	532	<0.0003	8	7.63	548	990
705	R10120179-001	<0.001	-0.3	1.9	269	<0.0003	8	7.59	538	990
705	n (exceedances)	0	0	0	1	0	0	2	11	1
3026	R08030315-009	0.004	47.6	3.6	440	0.0151	37	7.63	1470	2300
3026	R08040287-003	0.012	43.8	2.8	304	0.015	16	8.49	1520	2300
3026	R08050406-003	0.002	92.4	9.6	213	0.0281	15	6.95	1480	2400
3026	R08060427-006	<0.001	116	4.7	950	0.0183	15	6.82	1790	2700
3026	R08070220-001	0.016	80.1	10.1	560	0.0128	15	6.57	1700	2800
3026	R08080301-001	0.017	77.5	9.5	836	0.0106	15	7.07	1870	2800
3026	R08090356-007	<0.001	44	10.4	357	0.0059	15	6.92	1560	2300
3026	R08100295-007	0.002	36	3.5	254	0.0045	17	7.12	1360	1700
3026	R08110211-007	0.002	19.7	3.9	505	0.0048	17	7.44	1370	2300
3026	R08120255-004	0.002	23.9	2.7	355	0.0045	16	6.83	1290	2300
3026	R09010301-010	0.001	51.6	3.5	295	0.0039	16	6.67	1310	2100
3026	R09020293-003	0.001	15.4	2.9	484	0.0022	16	6.63	1390	2300
3026	n (exceedances)	3	12	4	9	0	0	0	12	12
7002	R07100002-008	0.001	45.6	8.5	NM	0.0007	10	7.29	1160	1900

**Table 17-1: Groundwater Quality Comparison with South Dakota Human Health Standards**

Parameter	Arsenic, Dissolved	Gross Alpha, Dissolved	Radium-226, Dissolved	Radon-222	Uranium, Dissolved	Chloride	pH	Sulfate	Total Dissolved Solids	
ARSD 74:54:01:04 Standard	0.01	15	5*	300	0.03	250	6.5-8.5	500	1000	
Units	mg/L	pCi/L	pCi/L	pCi/L	mg/L	mg/L	s.u.	mg/L	mg/L	
7002 R07110146-001	0.001	39.8	8.1	938	0.0006	11	7.22	1040	1900	
7002 R08020220-001	0.001	91.4	8.8	752	0.0006	9	7.56	1080	1900	
7002 R08050419-001	<0.001	29.5	8	1270	0.0005	9	7.36	1020	1800	
7002 n (exceedances)	0	4	4	3	0	0	0	4	4	
<b>Alluvial Wells</b>										
Hydro ID	Sample ID									
675	R07100002-002	0.001	18.8	<0.2	NM	0.0372	64	7.25	3600	5900
675	R07110303-007	<0.001	18.3	0.5	712	0.0307	60	7.32	3420	6100
675	R08020052-002	0.001	29.3	<0.2	783	0.0387	75	7.29	3260	6100
675	R08040364-004	0.001	55.2	0.2	960	0.0493	64	7.53	3810	5700
675	n (exceedances)	0	4	0	3	4	0	0	4	4
676	R07100002-005	<0.001	37.1	<0.2	NM	0.0494	15	7.13	1790	3000
676	R07110303-002	<0.001	31.9	<0.2	453	0.0548	16	7.17	1720	2900
676	R08020052-007	<0.001	95.5	<0.2	686	0.0586	14	7.2	1670	2500
676	R08040364-001	<0.001	51.6	0.2	755	0.0557	13	7.46	1760	2600
676	n (exceedances)	0	4	0	3	4	0	0	4	4
677	R07100002-004	0.002	41	0.9	NM	0.0218	1720	7.09	4390	8900
677	R07110303-004	<0.001	38.7	<0.2	892	0.0443	1780	7.14	4590	9700
677	R08020052-003	0.001	129	<0.2	808	0.0402	1290	7.13	4310	9600
677	R08040364-003	0.001	43.1	0.1	1250	0.045	1710	7.28	4410	9100
677	n (exceedances)	0	4	0	3	3	4	0	4	4
678	R07100002-007	0.002	23.2	<0.2	NM	0.0352	64	7.23	3220	6000
678	R07110303-003	<0.001	18.9	<0.2	391	0.0349	61	7.42	3440	6100
678	R08020052-005	0.001	41.5	<0.2	487	0.0368	96	7.34	3540	6000
678	R08040364-002	0.001	54.7	0.2	687	0.0355	54	7.55	3740	5400
678	n (exceedances)	0	4	0	3	4	0	0	4	4
679	R07100002-006	<0.001	19.9	<0.2	NM	0.0157	12	7.53	1580	2500
679	R07110184-003	<0.001	13.3	<0.2	819	0.0144	12	7.34	1500	2600
679	R08020006-001	<0.001	18.4	0.9	2170	0.0139	13	7.66	1420	2500
679	R08050229-002	<0.001	22.4	3.7	1250	0.0112	11	7.83	1440	2500
679	n (exceedances)	0	3	0	3	0	0	0	4	4
<b>Unkpapa Wells</b>										
Hydro ID	Sample ID									
690	R08070115-005	<0.001	4.8	0.2	194	<0.0003	30	9.27	807	1400
690	n (exceedances)	0	0	0	0	0	0	1	1	1
693	R08070035-001	<0.001	2.8	0.6	424	<0.0003	38	9.03	886	1400
693	n (exceedances)	0	0	0	1	0	0	1	1	1
703	R09010302-001	<0.001	42.6	0.4	153	0.0003	16	11.4	828	1400
703	n (exceedances)	0	1	0	0	0	0	1	1	1
704	R08090356-003	<0.001	-3	0.04	188	<0.0003	70	9.46	872	1300
704	n (exceedances)	0	0	0	0	0	0	1	1	1
<b>Summary of Exceedances</b>										
<b>Total Number of Samples</b>	<b>256</b>	<b>256</b>	<b>256</b>	<b>237</b>	<b>256</b>	<b>256</b>	<b>256</b>	<b>256</b>	<b>256</b>	<b>256</b>
<b>Number Exceeding Standard</b>	<b>16</b>	<b>175</b>	<b>92</b>	<b>180</b>	<b>32</b>	<b>4</b>	<b>12</b>	<b>150</b>	<b>103</b>	<b>103</b>

\* Standard applies to radium-226 and radium-228 combined.

NM - Denotes parameter not requested for analysis from lab.

Denotes parameter exceeds ARSD 74:54:01:04 human health standard.

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Denotes correction to Table 3.4-11 based on comparison to ARSD 74:54:01:04 human health standard rather than EPA secondary drinking water standard.