

EPA ID#: 0430 System Name: Brookings-Deuel Rural Water System

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 Title- Manager
 Address- PO Box 340
 Toronto SD 57268-0340

Location- City: Bruce And Clear Lake County: Brookings, Deuel
 Service Area- Other residential areas
 PWS Owner Type- Private Ownership
 Water Supply Type- Groundwater Supply

Population Served- 5,300 Service Connections- 2,500

Sources for Brookings-Deuel Rural Water System

Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
01	BRUCE-1	1976	60	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
02	BRUCE-2	1976	60	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
03	BRUCE 3	1981	60	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
04	CLEAR LAKE-1	1976	60	14	Permanent	Groundwater	Vulnerable	Treatment At Plant
05	CLEAR LAKE-2	1976	60	14	Permanent	Groundwater	Vulnerable	Treatment At Plant
06	CLEAR LAKE-3	1981	60	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
07	BRUCE-4	1989	60	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
08	CLEAR LAKE-4	1989	240	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
09	ELKTON-1	1984	30	12	Emergency	Groundwater	Vulnerable	Treatment At Plant
10	ELKTON-2	1984	30	12	Emergency	Groundwater	Vulnerable	Treatment At Plant
11	BRUCE PLANT/JOINT				Permanent	Treatment Plant	Non-Vulnerable	Aeration Coagulation, Softening - KMnO4 Disinfection - Gas Chlorine Filtration - Green Sand Corrosion Control - Mixing Device Sedimentation Fluoridation - H2SiF6
12	ELKTON PLANT				Emergency	Treatment Plant	Non-Vulnerable	Aeration Coagulation, Softening - KMnO4 Disinfection - Gas Chlorine Filtration - Zeolite Corrosion Control - Fluoridation - H2SiF6
13	CLEAR LAKE-5	1991	240	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
14	CLEAR LAKE PLANT				Permanent	Treatment Plant	Non-Vulnerable	Aeration Coagulation, Softening - KMnO4 Disinfection - Gas Chlorine Filtration - Pressure Sand Corrosion Control - Fluoridation - H2SiF6
15	BRUCE-5	1998	50	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
16	BRUCE-6	1994	50	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
17	ELKTON-3	1990	30	12	Emergency	Groundwater	Vulnerable	Treatment At Plant
18	BRUCE-7	1999	45	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant

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Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
33	CLEAR LAKE-6	2003	60	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
34	BRUCE-8	2008	45	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant

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Common Ion Data

(All chemical data are reported in milligrams per liter (mg/l) except pH and Langlier Index)

Please refer to Private Well Data for more information about these test results.

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
01	Raw	05/09/89	425	680	7.62	224	0	8	2.5	87.2	32.1	0.14	0.54	14.1	121	273	0	350	+0.09	1.4	0.26
14	Raw	02/02/95	434	709	7.14	242	0	3	2.2	104.2	31.4	0.01	0.02	14.5	116	295	0	389	+0.01	5.9	0.16
05	Raw	06/11/91	466	673	7.34	248	0	4	2.4	94.7	29.5	0.02	0.02	9.4	85	303	0	358	-0.17	2.7	0.14
09	Raw	10/28/92	436	666	7.66	278	0	9	1.9	80.3	35.7	0.13	0.04	1.1	44	339	0	347	+0.14	6.3	0.23
12	Raw	02/02/95	536	709	7.31	262	0	9	2.2	93.2	37.6	0.01	0.02	11.0	109	320	0	387	+0.14	6.9	0.70
11	Raw	02/02/95	442	709	7.18	263	0	10	2.5	96.1	36.0	0.04	0.49	19.0	126	321	0	388	+0.04	3.0	0.32
07	Raw	04/20/10	568	850	7.82	340	0	33	8.3	104.0	36.0	0.70	0.51	6.0	147	415	0	408	+0.80	0.2	0.41
06	Raw	04/20/10	531	827	7.59	335	0	32	6.4	96.7	34.4	0.53	0.36	6.0	129	409	0	383	+0.54	0.2	0.43
Averages			480	728	7.46	274	0	13	3.6	94.6	34.1	0.20	0.25	10.1	110	334	0	376		3.3	0.33

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
02	Treated	02/25/87	0	0	0.00	0	0	0	2.7	82.3	32.7	0.02	0.06	0.0	0	0	0	340	0.00	0.0	1.63
11	Treated	02/02/95	0	0	0.00	0	0	0	0.0	0.0	0.0	0.03	0.06	0.0	0	0	0	0	0.00	0.0	0.00
14	Treated	02/04/98	428	637	7.65	240	0	4	2.4	93.1	29.2	0.06	0.02	11.0	95	293	0	353	+0.46	3.8	1.19
11	Treated	02/04/98	447	700	0.00	249	0	10	3.1	86.9	35.2	0.06	0.04	14.0	109	304	0	362	+0.19	2.5	1.20
12	Treated	03/17/98	457	708	7.39	241	0	9	2.8	85.1	34.7	0.06	0.03	14.0	116	294	0	355	+0.16	2.2	1.00
11	Treated	05/23/01	475	753	7.38	265	0	11	2.4	89.4	35.7	0.02	0.02	13.0	119	323	0	370	+0.21	1.0	1.04
14	Treated	05/23/01	438	678	7.56	244	0	3	2.3	91.5	28.9	0.02	0.02	13.0	97	298	0	347	+1.24	2.8	1.05
14	Treated	04/27/04	422	649	7.45	240	0	4	2.9	90.8	28.2	0.03	0.02	9.0	90	293	0	343	+0.25	2.8	1.06
11	Treated	04/27/04	479	730	7.50	220	0	10	3.1	95.2	35.5	0.03	0.02	59.0	125	268	0	384	+0.27	0.7	1.09
11	Treated	05/30/07	444	665	7.44	258	0	5	2.7	97.1	28.5	0.03	0.02	11.0	113	315	0	360	+0.30	2.3	1.27
14	Treated	04/08/10	454	699	7.64	258	0	5	2.9	102.0	29.5	0.03	0.03	10.0	104	315	0	376	+0.52	4.0	1.02
11	Treated	04/08/10	482	762	7.89	286	0	13	3.0	97.8	35.5	0.03	0.04	19.0	122	349	0	390	+0.79	1.0	1.32
14	Treated	05/21/13	0	463	7.61	256	0	5	2.7	101.0	31.3	0.06	0.09	11.0	105	312	0	381	+0.48	3.3	1.28
11	Treated	05/21/13	484	742	7.78	265	0	12	2.9	101.0	34.7	0.06	0.13	17.0	124	323	0	395	+0.66	1.1	1.27
11	Treated	06/02/16	493	726	7.95	269	0	12	3.1	93.7	34.4	0.00	0.06	13.0	128	328	0	376	+0.80	0.8	0.68
14	Treated	06/02/16	481	729	7.50	268	0	5	2.9	99.1	32.1	0.00	0.00	9.0	113	327	0	380	+0.38	3.2	0.68
Averages			374	603	6.17	222	0	7	2.6	87.9	30.4	0.03	0.04	13.9	97	271	0	345		2.0	1.05