

# EPA ID#: 0429 System Name: Big Sioux Community Water System

Sampler- Mr Dave Bennett                      Work Phone-(605)997-2098  
 Title- Operations Manager  
 Address- 23343 479th Ave  
           Egan SD 57024

Location-                      City: Egan              County: Brookings, Lake, Moody  
 Service Area- Other residential areas  
 PWS Owner Type- Private Ownership  
 Water Supply Type- Groundwater Supply

Population Served- 5,337              Service Connections- 2,135

## Sources for Big Sioux Community Water System

Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
01	#1-EGAN	1974	37	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
02	#2-EGAN	1974	40	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
03	#3-EGAN	1974	40	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
04	#4-EGAN	1985	40	12	Permanent	Groundwater	Vulnerable	Treatment At Plant
05	#1 BRANDT- ABANDONED	1984	46	10		Groundwater	Vulnerable	Treatment At Plant
06	EGAN PLANT				Permanent	Treatment Plant	Non-Vulnerable	Aeration Coagulation, Softening - Lime Polymers Disinfection - Gas Chlorine Filtration - Gravity Mixing Device Recarbonation Sedimentation Fluoridation - H2SiF6
07	#5-ABANDONED	1996				Groundwater	Non-Vulnerable	No Treatment
08	#7-EGAN	2002	40	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
17	#5 EGAN	1996	40	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
18	#6 EGAN	2001	40	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
20	#2 BLP-ETHANOL PLANT	2001	50		Emergency	Groundwater	Non-Vulnerable	No Treatment
21	#3 BLP-ETHANOL PLANT	2001	50		Emergency	Groundwater	Non-Vulnerable	No Treatment
22	#4 BLP-ETHANOL PLANT	2002	50		Emergency	Groundwater	Non-Vulnerable	No Treatment
23	#5 BLP-ETHANOL PLANT	2002	70		Emergency	Groundwater	Non-Vulnerable	No Treatment
24	BRANDT PLANT				Permanent	Treatment Plant	Non-Vulnerable	Aeration Coagulation, Softening - Soda Ash Disinfection - Gas Chlorine Filtration - Green Sand RO Recarbonation Sedimentation Fluoridation - H2SiF6

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<b>Source</b>	<b>Name</b>	<b>Year Built</b>	<b>Depth (feet)</b>	<b>Diameter (inches)</b>	<b>Availability</b>	<b>Type</b>	<b>Vulnerability</b>	<b>Treatment</b>
25	#8-EGAN	2004	38	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
27	BRANDT PLANT WELL	2009	44	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
28	#1-SOUTHWEST	2008	40	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
29	#2-NORTHWEST	2008	40	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
30	#3-NORTH CENTRAL	2008	30	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
31	#4-NORTHEAST	2008	29	12	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
33	MINNEHAHA RWS	2016			Permanent	Purchased Groundwater	Non-Vulnerable	Water Treated By Seller - Purchased Surface Only

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## Common Ion Data

(All chemical data are reported in milligrams per liter (mg/l) except pH and Langelier 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	Langelier	NO3	F
02	Raw	03/05/96	541	770	7.50	239	0	17	2.5	111.0	33.3	0.06	0.07	27.0	173	287	0	414	+0.36	4.1	0.33
02	Raw	03/17/99	537	802	7.44	252	0	16	2.2	103.0	30.8	0.02	0.07	12.6	150	307	0	384	+0.30	4.7	0.33
06	Raw	06/27/05	714	1020	7.82	259	0	29	4.7	126.0	40.5	0.10	0.24	35.0	240	316	0	481	+0.74	1.6	0.29
06	Raw	09/01/10	734	1070	7.87	277	0	30	4.7	138.0	52.0	0.03	0.08	28.0	284	338	0	558	+0.86	2.6	0.32
Averages			632	916	7.66	257	0	23	3.5	119.5	39.2	0.05	0.12	25.7	212	312	0	459		3.3	0.32

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langelier	NO3	F
06	Treated	11/17/93	557	856	7.88	241	0	17	3.4	118.0	35.2	0.02	0.14	19.0	204	294	0	439	+0.89	7.0	1.24
05	Treated	10/02/91	528	809	7.86	261	0	13	4.7	107.0	37.6	0.60	0.04	21.6	135	318	0	422	+0.43	2.7	0.77
06	Treated	03/05/96	0	0	0.00	0	0	0	0.0	0.0	0.0	0.06	0.02	0.0	0	0	0	0	0.00	0.0	0.00
06	Treated	03/17/99	364	516	8.71	34	4	16	3.5	34.8	29.8	0.03	0.02	16.4	177	32	5	210	+0.26	4.2	1.19
06	Treated	06/27/05	442	636	7.92	38	0	25	3.8	43.7	36.1	0.03	0.02	35.0	210	46	0	258	-0.40	2.1	1.31
06	Treated	06/19/08	359	525	8.62	40	0	26	5.1	43.3	38.8	0.03	0.02	36.0	172	49	0	268	+0.34	1.7	1.34
06	Treated	09/01/10	484	730	8.56	41	0	30	5.1	53.1	38.7	0.03	0.02	29.0	274	50	0	292	+0.35	2.8	1.26
24	Treated	09/01/10	391	619	7.35	176	0	11	3.0	70.7	29.3	0.16	0.03	8.0	122	215	0	297	-0.08	5.0	1.36
24	Treated	07/17/13	288	453	7.31	133	0	7	1.9	54.5	22.1	0.03	0.02	11.0	76	162	0	227	-0.33	4.1	1.06
06	Treated	07/17/13	606	902	7.82	236	0	27	4.3	109.0	45.6	0.03	0.03	15.0	213	288	0	460	+0.66	1.7	1.40
24	Treated	07/17/13	288	453	7.31	133	0	7	1.9	54.5	22.1	0.03	0.02	11.0	76	162	0	227	-0.33	4.1	1.06
06	Treated	07/17/13	606	902	7.82	236	0	27	4.3	109.0	45.7	0.03	0.03	15.0	213	288	0	460	+0.66	1.7	1.40
06	Treated	10/11/16	426	644	8.46	47	0	27	4.1	36.2	39.3	0.00	0.00	26.0	227	57	0	252	+0.16	1.2	0.65
Averages			411	619	7.36	124	0	18	3.5	64.1	32.3	0.08	0.03	18.7	161	151	0	293		2.9	1.08