

Common Test Results For Black Hawk Water User District (EPA ID: 0043)

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 Title- Utilities Manager
 Address- PO Box 476
 Black Hawk SD 57718-0476

Location- City: Black Hawk County: Meade
 Service Area- Other residential areas
 PWS Owner Type- Private Ownership
 Water Supply Type- Groundwater Supply

Population Served- 3,750 Service Connections- 1,500

Sources for Black Hawk Water User District

Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
01	#1	1949	758	8	Emergency	Groundwater	Vulnerable	No Treatment
03	#3	1982	340	7	Emergency	Groundwater	Vulnerable	No Treatment
04	TREAT SITE - WELL #4				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
11	TREAT SITE - WELL #5				Permanent	Treatment Plant	Non-Vulnerable	Aeration Disinfection - Gas Chlorine Fluoridation - H2SiF6
12	WELL #4	1986	1180	8	Permanent	Groundwater	Vulnerable	Treatment At Plant
13	WELL #5	1999	1220	10	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant

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Test Data

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

Source	Type	Date	Conduct														Hardness	Langlier	NO3	F	
			TDS	ance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3					CO3
02	Raw	08/27/85	274	525	7.31	232	0	3	4.0	58.0	22.0	31.00	0.03	1.0	58	283	0	237	-0.19	0.2	0.31
03	Raw	08/27/85	228	470	7.41	240	0	2	3.0	50.0	21.0	0.13	0.03	1.0	12	293	0	213	-0.18	0.3	0.28
Averages			251	498	7.36	236	0	3	3.5	54.0	21.5	15.57	0.03	1.0	35	288	0	225		0.3	0.30

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			TDS	ance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3					CO3
01	Treated	08/27/85	244	490	7.03	180	0	4	4.0	52.0	21.0	0.16	0.03	1.0	18	220	0	218	-0.39	0.1	2.23
04	Treated	11/09/93	229	440	7.74	196	0	2	1.3	56.2	22.6	0.02	0.02	5.1	14	239	0	233	+0.35	0.3	1.36
04	Treated	03/06/97	189	390	7.70	200	0	2	1.0	44.0	24.0	0.05	0.03	1.0	9	244	0	209	+0.20	0.3	0.30
04	Treated	09/29/99	210	403	7.09	168	0	1	2.0	37.0	23.0	0.23	0.01	3.0	11	205	1	185	-0.65	0.3	11.90
11	Treated	05/14/03	260	472	7.19	256	0	2	1.0	49.3	34.8	0.04	0.02	0.0	0	312	0	266	-0.20	0.3	1.28
04	Treated	05/14/03	234	411	6.66	143	0	3	1.2	48.4	26.3	0.40	0.00	3.0	0	174	0	229	-0.98	0.3	27.20
04	Treated	01/25/06	183	415	6.80	95	0	3	1.1	38.2	24.9	0.05	0.01	5.0	20	116	0	198	-1.14	0.5	45.20
11	Treated	01/25/06	222	482	7.59	248	0	2	0.8	44.2	33.2	0.05	0.01	3.3	25	302	0	247	+0.13	0.5	1.17
04	Treated	11/05/08	185	396	7.68	196	0	2	1.1	34.2	24.1	0.05	0.01	1.0	10	239	0	185	+0.00	0.5	2.22
11	Treated	11/05/08	215	480	7.76	252	0	2	0.7	40.1	32.6	0.05	0.01	0.8	10	308	0	234	+0.26	0.3	1.37
04	Treated	03/27/12	204	389	7.95	191	0	4	1.6	42.3	23.4	0.05	0.01	2.2	11	232	0	202	+0.35	0.5	1.28
11	Treated	03/27/12	248	478	8.05	248	0	3	1.2	48.1	31.9	0.51	0.01	1.4	10	303	0	252	+0.62	0.2	0.84
11	Treated	02/04/15	242	472	7.97	250	0	2	1.0	44.3	33.7	0.06	0.00	2.0	0	305	0	250	+0.51	0.7	0.50
04	Treated	02/04/15	192	391	7.97	190	0	3	1.5	32.8	29.3	0.00	0.00	1.7	11	231	0	202	+0.26	0.3	4.13
04	Treated	03/20/18	160	386	8.03	190	0	3	1.4	40.5	23.2	0.00	0.00	1.8	11	231	0	196	+0.41	0.6	1.31
11	Treated	03/20/18	193	434	8.05	223	0	3	1.1	45.4	25.3	0.00	0.00	2.1	0	272	0	217	+0.55	0.6	1.14
Averages			213	433	7.58	202	0	2	1.4	43.6	27.1	0.11	0.01	2.1	10	246	0	220		0.4	6.46