Water-Data Report 2013

05066500 GOOSE RIVER AT HILLSBORO, ND

Upper Red Basin
Goose Subbasin

LOCATION.--Lat 47°24′34″, long 97°03′39″ referenced to North American Datum of 1927, in NW ¼ sec.5, T.145 N., R.50 W., Traill County, ND, Hydrologic Unit 09020109, on right bank 600 ft upstream from Foogman Dam in Hillsboro and 27.5 mi upstream from mouth.

DRAINAGE AREA.--1,203 mi^2 of which 110 mi^2 probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--DAILY DISCHARGE--April 1931 to current year (no winter records 1932-34). Monthly discharge only for some periods, published in WSP 1308.

PERIOD OF RECORD.--DAILY GAGE HEIGHT--October 2000 to current year.

GAGE.--Water-stage recorder and masonry dam. Datum of gage is 879.52 ft above National Geodetic Vertical Datum of 1929. September 26, 1941, to October 27, 1965, at site 600 ft downstream at same datum. See WSP 1728 or 1913 for history of changes prior to September 26, 1941.

REMARKS.--Records good, except those below 5.0 ft^3/s, which are fair, and those for estimated daily discharges, which are poor.

05066500 GOOSE RIVER AT HILLSBORO, ND—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.1	9.2	e8.9	e5.1	e2.6	e3.0	e4.2	2,440	298	901	48	16
2	1.3	10	e9.8	e5.1	e2.6	e3.0	e4.3	2,010	278	575	40	13
3	1.5	11	e9.3	e5.1	e2.6	e3.0	e4.4	1,770	270	401	34	13
4	3.9	10	e8.7	e5.1	e2.7	e3.0	e4.5	1,550	268	301	31	12
5	2.0	11	e8.0	e5.1	e2.8	e3.0	e4.5	1,300	288	244	29	12
6	e1.8	11	e7.5	e5.2	e2.8	e3.0	e4.5	998	322	205	27	13
7	e2.0	10	e6.9	e5.2	e2.8	e3.0	e4.5	760	388	183	25	12
8	e3.0	11	e6.2	e5.2	e2.8	e3.0	e4.5	534	532	231	24	13
9	e4.0	11	e5.8	e5.2	e2.8	e3.0	e5.0	405	704	188	23	18
10	e4.5	12	e5.6	e5.2	e2.8	e3.0	e9.7	324	719	162	23	22
11	e5.0	13	e5.5	e5.4	e2.9	e3.0	e20	275	645	148	21	25
12	4.6	12	e5.4	e4.8	e3.0	e2.9	e24	232	573	139	21	19
13	4.9	12	e5.4	e4.4	e2.9	e2.9	e30	200	487	131	21	23
14	5.2	11	e5.4	e4.0	e2.9	e2.9	e32	174	409	125	19	35
15	5.1	8.8	e5.4	e3.8	e2.9	e2.9	e21	151	345	116	18	30
16	5.3	9.7	e5.4	e3.7	e2.9	e2.8	e26	131	292	107	18	32
17	7.2	9.7	e5.4	e3.6	e2.9	e2.7	e42	123	e256	99	17	30
18	8.8	9.6	e5.4	e3.5	e2.8	e2.7	47	111	e237	114	16	29
19	7.9	10	e5.4	e3.3	e2.7	e2.6	45	366	211	113	16	35
20	18	11	e5.3	e3.1	e2.7	e2.6	46	1,130	201	97	16	42
21	14	e11	e5.3	e2.8	e2.7	e2.6	69	1,030	263	87	17	37
22	13	e11	e5.3	e2.5	e2.8	e2.6	98	1,230	814	79	17	35
23	16	e10	e5.2	e2.6	e2.8	e2.6	142	1,440	1,260	75	16	29
24	13	e9.6	e5.2	e2.6	e2.9	e2.6	375	1,500	1,030	71	16	24
25	13	e9.3	e5.2	e2.6	e3.0	e2.6	680	1,350	680	69	19	22
26	11	e8.9	e5.2	e2.6	e3.0	e2.7	1,540	1,020	1,140	66	20	20
27	9.6	e8.7	e5.2	e2.6	e3.0	e2.9	2,930	727	1,950	63	18	17
28	9.8	e8.5	e5.2	e2.6	e3.0	e3.1	3,770	587	2,170	59	17	23
29	10	e8.4	e5.2	e2.6	---	e3.5	3,910	486	1,880	56	22	18
30	9.5	e8.6	e5.2	e2.6	---	e3.9	3,310	400	1,400	55	18	20
31	9.2	---	e5.2	e2.6	---	e4.1	---	331	---	53	17	---
Total	225.2	307.0	188.1	119.8	79.1	91.2	17,207.1	25,085	20,310	5,313	684	689
Mean	7.26	10.2	6.07	3.86	2.83	2.94	574	809	677	171	22.1	23.0
Max	18	13	9.8	5.4	3.0	4.1	3,910	2,440	2,170	901	48	42
Min	1.1	8.4	5.2	2.5	2.6	2.6	4.2	111	201	53	16	12
Ac-ft	447	609	373	238	157	181	34,130	49,760	40,280	10,540	1,360	1,370

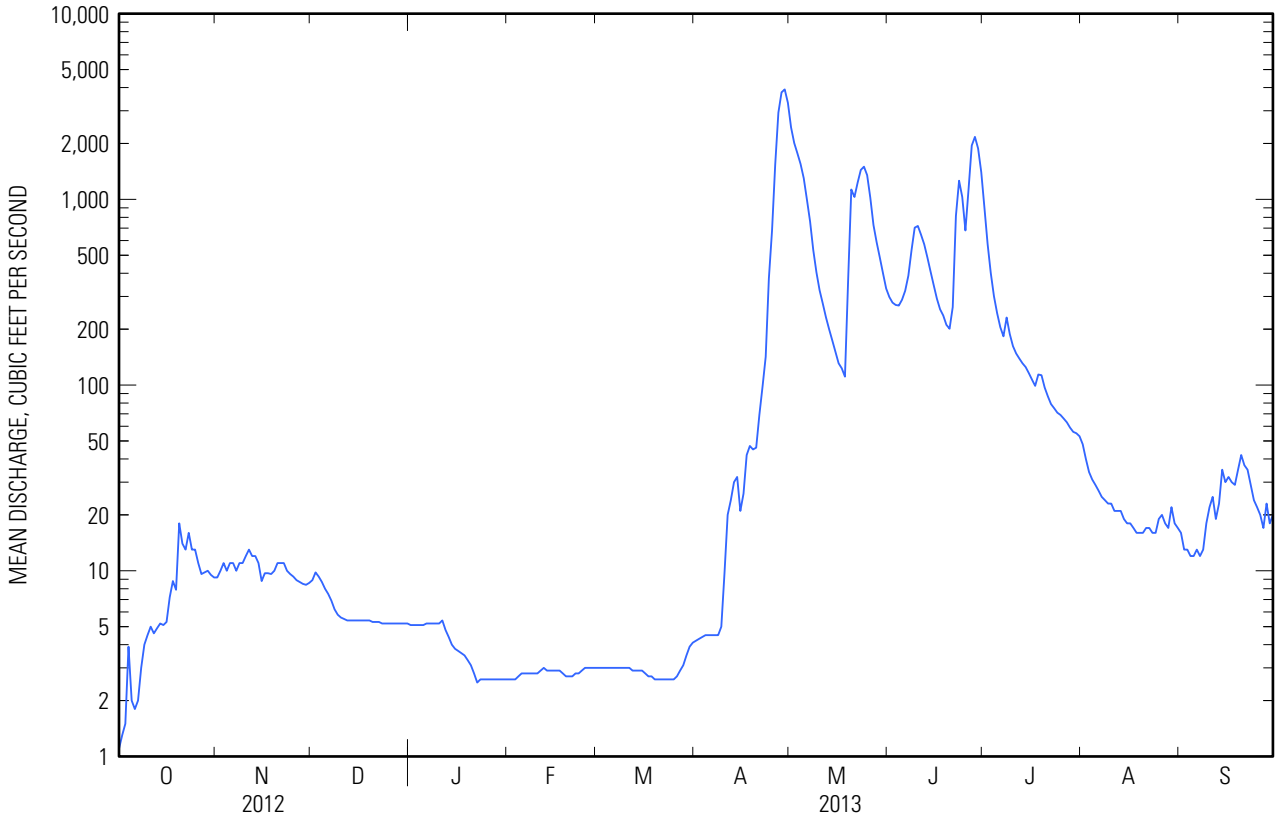
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	21.9	28.3	11.6	7.52	10.4	216	582	173	140	97.4	42.5	22.3
Max	436	469	79.9	47.1	217	1,993	3,587	2,275	1,710	902	1,200	326
(WY)	(1995)	(2001)	(1995)	(2001)	(1998)	(2010)	(2011)	(1950)	(2005)	(2011)	(2011)	(1994)
Min	0.00	0.00	0.00	0.00	0.00	0.00	6.51	1.12	1.35	0.00	0.00	0.00
(WY)	(1939)	(1939)	(1939)	(1939)	(1939)	(1940)	(1938)	(1939)	(1938)	(1940)	(1938)	(1938)

05066500 GOOSE RIVER AT HILLSBORO, ND—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1931 - 2013	
Annual total	17,595.24		70,298.5			
Annual mean	48.1		193		116	
Highest annual mean					671	2011
Lowest annual mean					3.47	1937
Highest daily mean	538	Mar 17	3,910	Apr 29	14,400	Apr 21, 1979
Lowest daily mean	0.00	Sep 14	1.1	Oct 1	0.00	Mar 1, 1936
Annual seven-day minimum	0.29	Sep 12	1.9	Oct 1	0.00	Mar 1, 1936
Maximum peak flow			4,000	Apr 29	14,800	Apr 21, 1979
Maximum peak stage			9.21	Apr 29	16.76	Apr 21, 1979
Annual runoff (ac-ft)	34,900		139,400		83,690	
10 percent exceeds	148		574		192	
50 percent exceeds	12		12		9.5	
90 percent exceeds	2.1		2.8		0.20	

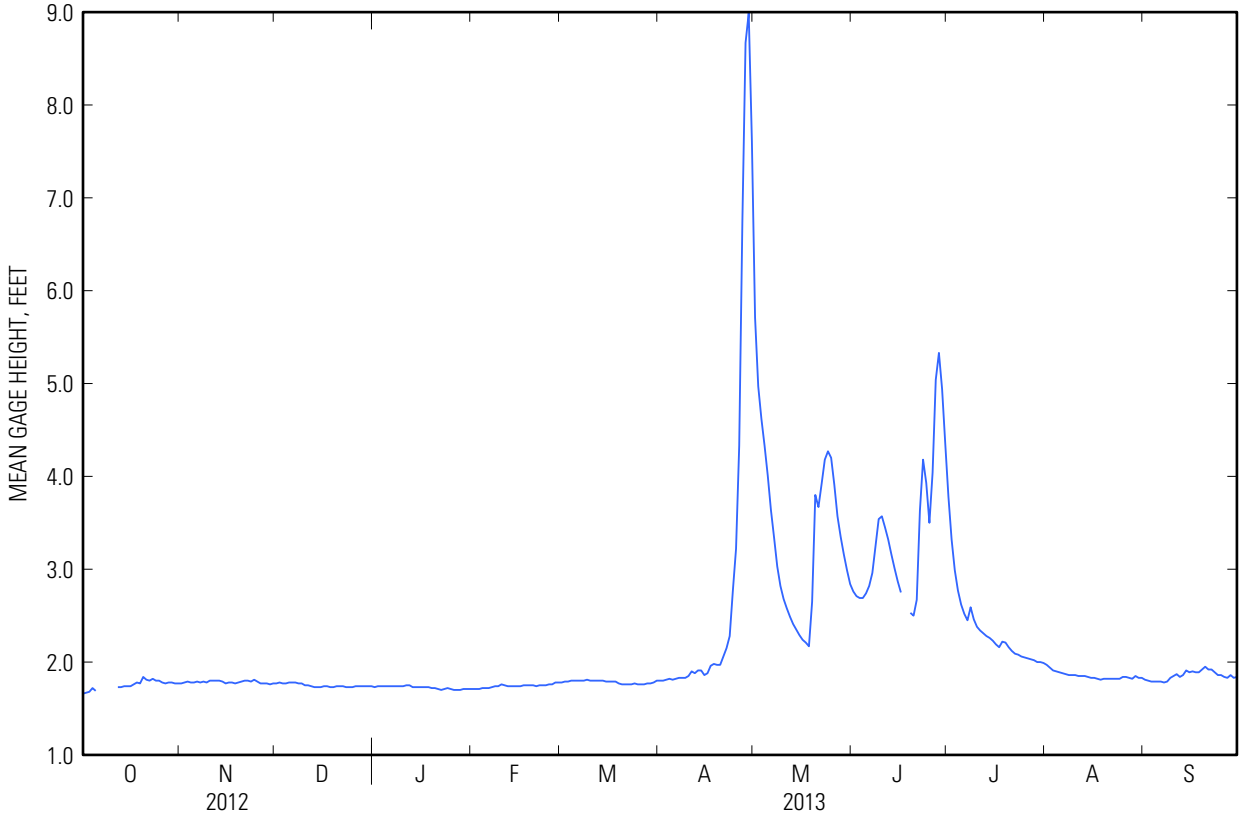


05066500 GOOSE RIVER AT HILLSBORO, ND—Continued

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.66	1.77	1.77	1.73	1.71	1.78	1.80	5.71	2.76	3.78	1.97	1.81
2	1.67	1.78	1.78	1.74	1.71	1.79	1.80	4.97	2.71	3.32	1.94	1.80
3	1.68	1.79	1.77	1.74	1.71	1.79	1.81	4.62	2.69	2.99	1.91	1.79
4	1.72	1.78	1.77	1.74	1.72	1.80	1.82	4.33	2.69	2.77	1.90	1.79
5	1.69	1.78	1.78	1.74	1.72	1.80	1.81	4.01	2.74	2.62	1.89	1.79
6	---	1.79	1.78	1.74	1.72	1.80	1.82	3.64	2.82	2.52	1.88	1.79
7	---	1.78	1.78	1.74	1.73	1.80	1.83	3.34	2.96	2.45	1.87	1.78
8	---	1.79	1.77	1.74	1.74	1.80	1.83	3.03	3.25	2.59	1.86	1.79
9	---	1.78	1.77	1.74	1.74	1.81	1.83	2.82	3.54	2.46	1.86	1.83
10	---	1.80	1.75	1.74	1.76	1.80	1.85	2.68	3.57	2.38	1.86	1.85
11	---	1.80	1.75	1.75	1.75	1.80	1.90	2.58	3.45	2.34	1.85	1.87
12	1.73	1.80	1.74	1.75	1.74	1.80	1.88	2.49	3.32	2.31	1.85	1.84
13	1.73	1.80	1.73	1.73	1.74	1.80	1.91	2.41	3.16	2.28	1.85	1.86
14	1.74	1.79	1.73	1.73	1.74	1.80	1.91	2.35	3.01	2.26	1.84	1.91
15	1.74	1.77	1.73	1.73	1.74	1.79	1.86	2.29	2.87	2.23	1.83	1.89
16	1.74	1.78	1.74	1.73	1.74	1.79	1.88	2.24	2.75	2.19	1.83	1.90
17	1.76	1.78	1.74	1.73	1.75	1.79	1.96	2.21	---	2.16	1.82	1.89
18	1.78	1.77	1.73	1.73	1.75	1.79	1.98	2.17	---	2.22	1.81	1.89
19	1.77	1.78	1.73	1.72	1.75	1.77	1.97	2.65	2.53	2.21	1.82	1.92
20	1.84	1.79	1.74	1.72	1.75	1.76	1.97	3.80	2.50	2.16	1.82	1.95
21	1.81	1.80	1.74	1.71	1.74	1.76	2.06	3.67	2.67	2.12	1.82	1.92
22	1.80	1.80	1.74	1.70	1.75	1.76	2.15	3.92	3.63	2.09	1.82	1.92
23	1.82	1.79	1.73	1.71	1.75	1.76	2.28	4.18	4.18	2.08	1.82	1.89
24	1.80	1.81	1.73	1.72	1.75	1.77	2.77	4.27	3.93	2.06	1.82	1.86
25	1.80	1.79	1.73	1.71	1.76	1.76	3.22	4.20	3.50	2.05	1.84	1.86
26	1.78	1.77	1.74	1.70	1.76	1.76	4.33	3.91	4.04	2.04	1.84	1.84
27	1.77	1.77	1.74	1.70	1.78	1.76	6.75	3.57	5.04	2.03	1.83	1.83
28	1.78	1.77	1.74	1.70	1.78	1.77	8.67	3.35	5.33	2.02	1.82	1.86
29	1.78	1.76	1.74	1.71	---	1.77	8.99	3.16	4.94	2.00	1.85	1.83
30	1.77	1.77	1.74	1.71	---	1.78	7.61	2.99	4.35	2.00	1.83	1.84
31	1.77	---	1.74	1.71	---	1.80	---	2.84	---	1.99	1.83	---
Mean	---	1.78	1.75	1.73	1.74	1.78	2.88	3.37	---	2.35	1.85	1.85
Max	---	1.81	1.78	1.75	1.78	1.81	8.99	5.71	---	3.78	1.97	1.95
Min	---	1.76	1.73	1.70	1.71	1.76	1.80	2.17	---	1.99	1.81	1.78

05066500 GOOSE RIVER AT HILLSBORO, ND—Continued



05066500 GOOSE RIVER AT HILLSBORO, ND—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1969 to current year.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 7

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Discharge, ft^3/s (00060)	Discharge, instantaneous, ft^3/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)	pH, water, unfiltered, laboratory, standard units (00403)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)
10-31-2012	**0955**	733	--	10	9.6	79	7.7	8.1	1,870	1,820
01-28-2013	**1645**	724	E 2.6	--	7.0	51	7.4	7.8	2,000	2,050
05-01-2013	**1440**	742	--	2,350	9.8	85	7.7	7.7	593	575
05-13-2013	**1025**	730	--	206	10.2	101	8.0	8.1	1,090	1,100
05-20-2013	**1420**	723	--	1,180	8.3	87	7.6	7.6	543	512
06-10-2013	**1145**	--	--	711	8.8	--	8.2	8.1	1,350	1,330
07-09-2013	**1010**	--	--	189	7.1	--	8.2	8.1	1,100	1,100
07-29-2013	**1130**	739	--	58	7.8	91	8.2	8.2	1,400	1,410

05066500 GOOSE RIVER AT HILLSBORO, ND—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 7

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Temperature, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detection angle 90 +/- 30 degrees to incident light, NTU (63675)	Turbidity, water, unfiltered, monochrome near infrared LED light, 780-900 nm, detection angle 90 +/- 2.5 degrees, FNU (63680)	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Dissolved solids, water, tons per day (70302)	Hardness, water, mg/L as $CaCO_3$ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)
10-31-2012	**0955**	4.9	--	6.5	--	--	--	8	--
01-28-2013	**1645**	.5	--	1.8	1,490	--	892	6	209
05-01-2013	**1440**	8.1	--	360	403	2,560	273	935	66.8
05-13-2013	**1025**	12.7	--	28	772	429	511	55	122
05-20-2013	**1420**	15.0	--	630	347	1,100	242	1,330	58.6
06-10-2013	**1145**	17.0	--	52	977	1,880	614	113	136
07-09-2013	**1010**	25.3	20	--	782	399	520	26	115
07-29-2013	**1130**	21.0	--	7.1	1,020	160	655	21	142

05066500 GOOSE RIVER AT HILLSBORO, ND—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 3 of 7

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Magne-sium, water, filtered, mg/L (00925)	Potassium, water, filtered, mg/L (00935)	Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in equiva-lents of major cations (00932)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as $CaCO_3$ (90410)	Chloride, water, filtered, mg/L (00940)	Silica, water, filtered, mg/L as SiO_2 (00955)	Sulfate, water, filtered, mg/L (00945)
10-31-2012	**0955**	--	--	--	--	--	257	126	--	580
01-28-2013	**1645**	89.8	11.7	2.14	26	147	395	87.4	22.9	684
05-01-2013	**1440**	25.9	9.39	.60	15	22.8	110	7.04	18.4	182
05-13-2013	**1025**	50.1	10.2	1.00	18	52.2	200	18.5	24.0	373
05-20-2013	**1420**	23.3	6.44	.62	16	22.1	99.5	16.3	14.3	143
06-10-2013	**1145**	66.7	9.56	1.56	24	88.7	233	24.1	18.6	490
07-09-2013	**1010**	56.5	7.35	1.02	18	53.7	240	20.9	26.8	356
07-29-2013	**1130**	73.0	8.92	1.47	22	86.2	309	28.3	23.2	477

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
Part 4 of 7

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Ammonia, water, filtered, mg/L as N (00608)	Ammonia, water, unfiltered, mg/L as N (00610)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Nitrate plus nitrite, water, unfiltered, mg/L as N (00630)	Organic nitrogen, water, filtered, mg/L (00607)	Organic nitrogen, water, unfiltered, mg/L (00605)	Phos-phorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)
10-31-2012	**0955**	< .030	< .03	0.032	0.030	< .71	< .76	0.035	0.064
01-28-2013	**1645**	.273	.27	.550	.510	4.4	.47	< .004	.038
05-01-2013	**1440**	.291	.31	.788	.730	.76	.44	.156	.715
05-13-2013	**1025**	< .030	.05	.349	.330	< .78	.76	.140	.192
05-20-2013	**1420**	.373	.39	.526	.510	.50	.53	.297	.817
06-10-2013	**1145**	.047	.05	.789	.770	.93	.85	.226	.301
07-09-2013	**1010**	.067	.07	.393	.380	.80	.79	.266	.297
07-29-2013	**1130**	< .030	< .03	< .030	< .030	< .94	< .98	.070	.107

05066500 GOOSE RIVER AT HILLSBORO, ND—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 5 of 7

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Aluminum, water, filtered, µg/L (01106)	Barium, water, filtered, µg/L (01005)	Beryllium, water, filtered, µg/L (01010)	Cadmium, water, filtered, µg/L (01025)	Chromium, water, filtered, µg/L (01030)	Copper, water, filtered, µg/L (01040)
10-31-2012	**0955**	0.74	0.79	< 50	64.5	< 5.00	< 5.00	< 5.0	< 5.0
01-28-2013	**1645**	5.23	1.25	< 50	74.9	< 5.00	< 5.00	< 5.0	< 5.0
05-01-2013	**1440**	1.84	1.48	160	39.5	< 5.00	< 5.00	< 5.0	< 5.0
05-13-2013	**1025**	1.13	1.14	< 50	51.7	< 5.00	< 5.00	< 5.0	< 5.0
05-20-2013	**1420**	1.40	1.43	< 50	31.0	< 5.00	< 5.00	< 5.0	< 5.0
06-10-2013	**1145**	1.77	1.67	< 50	55.3	< 5.00	< 5.00	< 5.0	< 5.0
07-09-2013	**1010**	1.26	1.24	< 50	59.3	< 5.00	< 5.00	< 5.0	< 5.0
07-29-2013	**1130**	.94	.98	< 50	72.1	< 5.00	< 5.00	< 5.0	< 5.0

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 6 of 7

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	Manga-nese, water, filtered, µg/L (01056)	Nickel, water, filtered, µg/L (01065)	Silver, water, filtered, µg/L (01075)	Thallium, water, filtered, µg/L (01057)	Zinc, water, filtered, µg/L (01090)	Antimony, water, filtered, µg/L (01095)	Arsenic, water, filtered, µg/L (01000)
10-31-2012	**0955**	171	< 5.00	156	12.8	< 5.00	< 5.00	< 5.0	< 5.00	< 5.0
01-28-2013	**1645**	< 50.0	< 5.00	542	9.0	< 5.00	< 5.00	< 5.0	< 5.00	< 5.0
05-01-2013	**1440**	278	< 5.00	279	7.5	< 5.00	< 5.00	< 5.0	< 5.00	< 5.0
05-13-2013	**1025**	< 50.0	< 5.00	237	8.1	< 5.00	< 5.00	< 5.0	< 5.00	< 5.0
05-20-2013	**1420**	62.0	< 5.00	14.0	< 5.0	< 5.00	< 5.00	< 5.0	< 5.00	< 5.0
06-10-2013	**1145**	< 50.0	< 5.00	25.0	11.0	< 5.00	< 5.00	< 5.0	< 5.00	< 5.0
07-09-2013	**1010**	< 50.0	< 5.00	16.0	9.3	< 5.00	< 5.00	< 5.0	< 5.00	7.0
07-29-2013	**1130**	< 50.0	< 5.00	106	10.2	< 5.00	< 5.00	< 5.0	< 5.00	7.0

05066500 GOOSE RIVER AT HILLSBORO, ND—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 7 of 7

[%, percent; ANC, acid neutralizing capacity; $CaCO_3$, calcium carbonate; FNU, Formazin nephelometric units; LED, light-emitting diode; N, nitrogen; NTU, nephelometric turbidity unit; P, phosphorus; SiO_2, silicon dioxide; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)	Organic carbon, water, filtered, mg/L (00681)	Organic carbon, water, unfiltered, mg/L (00680)
10-31-2012	**0955**	389	< 5.0	9.19	9.3
01-28-2013	**1645**	416	< 5.0	6.45	6.6
05-01-2013	**1440**	95	< 5.0	9.55	9.8
05-13-2013	**1025**	149	< 5.0	10.5	10.4
05-20-2013	**1420**	110	< 5.0	5.89	5.6
06-10-2013	**1145**	185	< 5.0	13.8	13.2
07-09-2013	**1010**	175	< 5.0	11.7	11.0
07-29-2013	**1130**	246	5.6	13.4	11.7