Water-Data Report 2010

470203098043400 LAKE ASHTABULA SITE 1L

Devils Lake-Sheyenne Basin
Middle Sheyenne Subbasin

LOCATION.--Lat 47°02′03″, long 98°04′34″ referenced to North American Datum of 1983, Barnes County, ND, Hydrologic Unit 09020203.

WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 1 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NGVD, National Geodetic Vertical Datum; P, phosphorus; SiO2, silicon dioxide; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	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 conduc-tance, water, unfiltered, laboratory, µS/cm at 25 °C (90095)	Specific conduc-tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera-ture, water, °C (00010)
10-19-2009	1330	727	10.5	11.9	105	8.9	--	--	1,170	8.0
10-19-2009	1331	--	--	11.9	--	8.9	8.8	1,180	1,170	8.0
10-19-2009	1332	--	--	11.9	--	8.9	--	--	1,170	8.0
10-19-2009	1333	--	--	11.9	--	8.9	--	--	1,170	8.0
10-19-2009	1334	--	--	11.9	--	8.9	--	--	1,170	7.9
10-19-2009	1335	--	--	11.9	--	8.9	--	--	1,170	7.9
10-19-2009	1336	--	--	11.8	--	8.9	8.8	1,200	1,170	7.9
10-19-2009	1337	--	--	11.8	--	8.9	--	--	1,170	7.9

470203098043400 LAKE ASHTABULA SITE 1L—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NGVD, National Geodetic Vertical Datum; P, phosphorus; SiO2, silicon dioxide; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Elevation above NGVD 1929, ft (72020)	Sampling depth, m (00098)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, filtered, mg/L (00915)	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)
10-19-2009	1330	1,265.29	.00	--	--	--	--	--	--	--
10-19-2009	1331	--	1.0	732	423	74.9	57.3	15.4	2.9	41
10-19-2009	1332	--	2.0	--	--	--	--	--	--	--
10-19-2009	1333	--	3.0	--	--	--	--	--	--	--
10-19-2009	1334	--	4.0	--	--	--	--	--	--	--
10-19-2009	1335	--	5.0	--	--	--	--	--	--	--
10-19-2009	1336	--	6.0	744	422	73.5	57.8	14.6	2.7	40
10-19-2009	1337	--	7.0	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NGVD, National Geodetic Vertical Datum; P, phosphorus; SiO2, silicon dioxide; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO3 (90410)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO2 (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
10-19-2009	1330	--	--	--	--	--	--	--	--	--
10-19-2009	1331	135	337	24.0	.18	7.72	286	.95	< .030	< .030
10-19-2009	1332	--	--	--	--	--	--	--	--	--
10-19-2009	1333	--	--	--	--	--	--	--	--	--
10-19-2009	1334	--	--	--	--	--	--	--	--	--
10-19-2009	1335	--	--	--	--	--	--	--	--	--
10-19-2009	1336	129	353	24.1	.20	7.76	288	.97	< .030	< .030
10-19-2009	1337	--	--	--	--	--	--	--	--	--

470203098043400 LAKE ASHTABULA SITE 1L—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO3, calcium carbonate; N, nitrogen; NGVD, National Geodetic Vertical Datum; P, phosphorus; SiO2, silicon dioxide; ft, feet; m, meters; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than]

Date	Sample start time	Organic nitrogen, water, filtered, mg/L (00607)	Phos-phorus, water, filtered, mg/L as P (00666)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Total nitrogen, water, filtered, mg/L (00602)	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)
10-19-2009	1330	--	--	--	--	--	--	--	--	--
10-19-2009	1331	< .95	.187	.98	< .98	< 50	54	< 5.00	< 5.00	< 5.0
10-19-2009	1332	--	--	--	--	--	--	--	--	--
10-19-2009	1333	--	--	--	--	--	--	--	--	--
10-19-2009	1334	--	--	--	--	--	--	--	--	--
10-19-2009	1335	--	--	--	--	--	--	--	--	--
10-19-2009	1336	< .97	.192	1.00	< 1.0	< 50	57	< 5.00	< 5.00	< 5.0
10-19-2009	1337	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 5 of 6

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Date	Sample start time	Copper, water, filtered, µg/L (01040)	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)
10-19-2009	1330	--	--	--	--	--	--	--	--	--
10-19-2009	1331	< 5.0	< 50	< 5.00	13.0	< 5.0	< 5.00	< 5.00	11.1	< 5.00
10-19-2009	1332	--	--	--	--	--	--	--	--	--
10-19-2009	1333	--	--	--	--	--	--	--	--	--
10-19-2009	1334	--	--	--	--	--	--	--	--	--
10-19-2009	1335	--	--	--	--	--	--	--	--	--
10-19-2009	1336	< 5.0	< 50	< 5.00	11.0	< 5.0	< 5.00	< 5.00	17.2	< 5.00
10-19-2009	1337	--	--	--	--	--	--	--	--	--

470203098043400 LAKE ASHTABULA SITE 1L—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 6 of 6

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Date	Sample start time	Arsenic, water, filtered, µg/L (01000)	Boron, water, filtered, µg/L (01020)	Selenium, water, filtered, µg/L (01145)
10-19-2009	1330	--	--	--
10-19-2009	1331	6.3	232	< 5.0
10-19-2009	1332	--	--	--
10-19-2009	1333	--	--	--
10-19-2009	1334	--	--	--
10-19-2009	1335	--	--	--
10-19-2009	1336	8.2	225	< 5.0
10-19-2009	1337	--	--	--