



Water-Data Report 2008

460030098091100 JAMES RIVER AT LUDDEN BRIDGE NEAR LUDDEN, ND

James Basin
Upper James Subbasin

LOCATION.--Lat 46°00'30", long 98°09'11" referenced to North American Datum of 1983, Dickey County, ND, Hydrologic Unit 10160003.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 2006 to current year.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified. Value qualifier codes: @, holding time exceeded; c, see result laboratory comment; d, diluted sample: method hi range exceeded; n, below the LRL and above the LT-MDL; o, result determined by alternate method.]

Date	Time	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conduc- tance, wat unf lab, μS/cm 25 degC (90095)	Specif- ic conduc- tance, wat unf lab, μS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)
Apr 24...	1100	--	--	--	8.7	8.7	1,100	1,070	10.0	10.5	390	73.6	50.6
Jul 15...	1020	729	6.8	83	8.2	8.6	1,260	1,270	27.0	22.6	450	85.4	57.4

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified. Value qualifier codes: @, holding time exceeded; c, see result laboratory comment; d, diluted sample: method hi range exceeded; n, below the LRL and above the LT-MDL; o, result determined by alternate method.]

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium adsorp- tion ratio (00931)	Sodium frac- tion of cations percent (00932)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
Apr 24...	18.7	1.8	30	83.0	267@c	42.1	.21	.42	291	E720	768	.88	2.0
Jul 15...	24.3	2.2	33	108	361@c	38.1	.26	14.4	292d	E838	863	1.4	2.4

460030098091100 JAMES RIVER AT LUDDEN BRIDGE NEAR LUDDEN, ND—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified. Value qualifier codes: @, holding time exceeded; c, see result laboratory comment; d, diluted sample: method hi range exceeded; n, below the LRL and above the LT-MDL; o, result determined by alternate method.]

Date	Nitrate + Ammonia		Nitrite water, fltrd, mg/L as N (00613)	Organic nitro- gen, water, fltrd, mg/L (00607)	Organic nitro- gen, water, unfltrd mg/L (00605)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfltrd mg/L as P (00665)	Alum- inum, water, fltrd, µg/L (01106)	Anti- mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryll- ium, water, fltrd, µg/L (01010)
	water, fltrd, mg/L as N (00608)	nitrite water, fltrd, mg/L as N (00631)											
Apr 24...	E.011n	<.04	<.002	E.88	E2.0	.062	.102	.66oc	3.1	.36	2.8	48	<.01
Jul 15...	.021	<.04	E.002n	1.3	2.4	.476d	.53	.87	1.7	.60	9.7	93	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified. Value qualifier codes: @, holding time exceeded; c, see result laboratory comment; d, diluted sample: method hi range exceeded; n, below the LRL and above the LT-MDL; o, result determined by alternate method.]

Date	Boron, water, fltrd, µg/L (01020)	Cadmium water, fltrd, µg/L (01025)	Chrom- ium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Mangan- ese, water, fltrd, µg/L (01056)	Nickel, water, fltrd, µg/L (01065)	Selen- ium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Thall- ium, water, fltrd, µg/L (01057)	Zinc, water, fltrd, µg/L (01090)
Jul 15...	215	E.02n	<1	E.67n	E4n	.10	649	4.1	.65	<.1	<.04	E1.1n