

Water-Data Report 2009

05268700 LITTLE ROCK CREEK AT RICE, MN

Upper Mississippi-Crow-Rum Basin
Platte-Spunk Subbasin

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2008 to current year.

PERIOD OF DAILY RECORD.--April 2008 to current year.

REMARKS.--Upper Mississippi River Basin nutrient enrichment (NEET) study sampling site. The objectives of this study are to determine the transport, chemical transformation, and retention of nutrients in the water column and surrounding sediments, and resulting effects on biological communities in stream reaches. Such cycling differs in different geologic and hydrologic settings, and is controlled, in large part, by ground-water and surface-water interactions. The study will be conducted from 2006 to 2009. Temperature records considered good for entire the period of record. Temperatures were checked with a thermometer periodically during period of record. Accuracy of records of water temperatures at sensor are within 1.0 C., although published to within 0.5 C.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 23.5 C, July 29, 2008; maximum daily, 22.0 C, July 29, 30, 2008; minimum, 1.5 C, April 27, 2008; minimum daily, 3.5 C, April 27, 2008.

EXTREMES FOR CURRENT YEAR.--Maximum, 23.5 C, July 29; maximum daily, 22.0 C, July 29, 30; minimum, 1.5 C, April 27; minimum daily, 3.5 C, April 27.

05268700 LITTLE ROCK CREEK AT RICE, MN—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	11.5	9.5	10.5	---	---	---	---	---	---	---	---	---
2	11.5	8.0	10.0	---	---	---	---	---	---	---	---	---
3	11.0	9.0	10.5	---	---	---	---	---	---	---	---	---
4	11.0	8.5	10.0	---	---	---	---	---	---	---	---	---
5	10.5	10.0	10.5	---	---	---	---	---	---	---	---	---
6	13.0	10.5	11.5	---	---	---	---	---	---	---	---	---
7	13.5	11.5	13.0	---	---	---	---	---	---	---	---	---
8	11.5	10.0	11.0	---	---	---	---	---	---	---	---	---
9	11.0	9.0	10.0	---	---	---	---	---	---	---	---	---
10	10.5	9.0	9.5	---	---	---	---	---	---	---	---	---
11	12.0	9.0	10.0	---	---	---	---	---	---	---	---	---
12	14.0	12.0	13.0	---	---	---	---	---	---	---	---	---
13	14.0	12.0	13.5	---	---	---	---	---	---	---	---	---
14	12.0	9.5	10.5	---	---	---	---	---	---	---	---	---
15	10.5	9.0	10.0	---	---	---	---	---	---	---	---	---
16	9.0	7.5	8.5	---	---	---	---	---	---	---	---	---
17	9.0	7.5	8.5	---	---	---	---	---	---	---	---	---
18	9.0	7.0	8.5	---	---	---	---	---	---	---	---	---
19	10.0	8.5	9.0	---	---	---	---	---	---	---	---	---
20	10.0	8.5	9.0	---	---	---	---	---	---	---	---	---
21	8.5	6.5	7.5	---	---	---	---	---	---	---	---	---
22	8.0	6.0	7.0	---	---	---	---	---	---	---	---	---
23	7.0	5.5	6.5	---	---	---	---	---	---	---	---	---
24	7.5	7.0	7.5	---	---	---	---	---	---	---	---	---
25	8.5	7.0	8.0	---	---	---	---	---	---	---	---	---
26	8.5	5.5	7.0	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

05268700 LITTLE ROCK CREEK AT RICE, MN—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 2

[Remark codes: E, estimated.]

Date	Time	Medium name	Baro- metric pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	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, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)
Oct										
27...	0830	Surface water	744	.0	10.2	7.7	422	425	3.7	2.2
27...	0900	Plant tissue	--	--	10.2	7.7	--	381	3.7	--
27...	0901	Benthic invertebrates	--	--	10.2	7.7	--	381	3.7	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 2

[Remark codes: E, estimated.]

Date	Number of sam- pling points, count (00063)	Sampler type, code (84164)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, unfltrd mg/L as P (00665)	Sus- pended sedi- ment concen- tration mg/L (80154)
Oct								
27...	10	Grab sample	E.018	5.61	.026	.017	.034	1
27...	5	Periphyton substrate	--	--	--	--	--	--
27...	5	Benthic net	--	--	--	--	--	--