

UPPER MISSISSIPPI RIVER MAIN STEM--Continued
05287890 ELM CREEK NEAR CHAMPLIN, MN—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1988 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Chloride, water, fltrd, mg/L (00940)	Residue total at 105 deg. C, suspended, mg/L (00530)
OCT 27...	1030	Environmental	1.8	737	7.7	61	7.7	677	3.5	5.6	18.3	<10
NOV 13...	0950	Environmental	2.0	750	11.9	86	7.7	652	2.0	1.8	28.3	<10
DEC 17...	0950	Environmental	2.3	739	9.5	66	7.7	680	-5.0	.3	29.8	<10
JAN 21...	1000	Environmental	1.6	736	10.7	74	7.6	755	.0	.1	18.7	<10
FEB 26...	1020	Environmental	1.9	747	11.7	84	7.8	708	2.0	1.7	20.7	<10
MAR 15...	0930	Environmental	15	749	12.8	88	7.3	710	-2.0	.1	96.2	<10
MAR 22...	1125	Environmental	47	750	13.2	91	7.4	608	10.5	.1	73.8	<20
APR 12...	1000	Environmental	12	748	12.8	101	8.0	614	6.0	5.2	68.7	<20
APR 18-21	2250	Composite (time)	--	--	--	--	8.2	654	--	--	80.4	11
MAY 17-18	1017	Composite (time)	--	--	--	--	8.0	682	--	--	85.8	<10
MAY 20...	1315	Environmental	38	744	8.5	93	7.7	672	23.0	18.5	100	<10
MAY 23-26	1248	Composite (time)	--	--	--	--	8.0	609	--	--	86.3	14
MAY 29-	0642	Composite (time)	--	--	--	--	7.9	543	--	--	68.7	<10
JUN 11-14	2149	Composite (time)	--	--	--	--	7.7	442	--	--	43.8	21
JUL 14...	0945	Environmental	111	742	4.3	50	7.1	462	24.0	22.4	46.1	14
AUG 19...	1040	Environmental	2.7	746	7.2	71	7.5	483	10.0	14.4	42.1	10
SEP 04-06	1035	Composite (time)	--	--	--	--	8.2	629	--	--	26.0	11
SEP 29...	0930	Environmental	25	746	8.3	78	7.7	490	11.0	12.5	48.5	12

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue vola- tile, sus- pended, mg/L (00535)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	COD, high level, water, unfltrd mg/L (00340)
OCT 27...	<10	.42	E.04	<.06	.012	.06	.10	20
NOV 13...	<10	.49	<.04	<.06	.023	E.04	.05	20
DEC 17...	<10	.68	.25	.11	E.005	<.04	.07	10
JAN 21...	<10	.49	.11	.11	<.008	E.03	.07	<10
FEB 26...	<10	.70	.24	.09	E.004	<.04	.04	10
MAR 15...	<10	2.4	.80	1.88	.074	.17	.29	30
22...	<20	2.0	.60	1.07	.031	.09	.20	40
APR 12...	<20	1.1	E.04	E.06	<.008	E.04	.09	30
APR 18-21	--	1.3	<.04	.22	.014	.04	.13	30
MAY 17-18	--	1.1	<.04	<.06	<.008	.10	.15	20
20...	<10	1.0	E.03	.09	.010	.09	.14	20
MAY 23-26	--	1.3	E.02	.37	.013	.10	.19	30
MAY 29-	--	1.3	E.02	.44	.014	.12	.20	30
JUN 01	--	1.3	E.02	.44	.014	.12	.20	30
JUN 11-14	--	1.3	<.04	.12	.008	.26	.30	30
JUL 14...	<10	1.2	<.04	E.03	<.008	.22	.28	30
AUG 19...	<10	.76	<.04	E.04	E.005	.10	.16	30
SEP 04-06	--	.64	E.03	.09	.011	.08	.14	20
29...	10	1.2	E.04	.13	.020	.13	.19	30