

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 2002 TO SEPTEMBER 2003

Date	Time	Sample type	Gage height, feet (00065)	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 unf 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Chloride, water, fltrd, mg/L (00940)
OCT 30...	1030	Environmental	6.24	100	748	9.3	74	7.7	438	5.0	4.5	30.8
NOV 14...	1030	Environmental	4.95	52	745	11.0	81	7.7	456	-2.0	1.6	34.2
DEC 31...	1010	Environmental	3.84	7.0	743	11.1	78	7.7	686	6.0	-0.2	42.2
JAN 16...	0930	Environmental	3.62	6.9	749	8.9	62	7.4	734	-8.0	-0.2	32.0
FEB 13...	1055	Environmental	3.38	2.5	746	9.2	64	7.6	709	1.0	-0.2	21.8
MAR 21...	1030	Environmental	5.72	92	734	10.2	73	7.5	424	2.0	0.2	57.7
APR 07...	1100	Environmental	4.42	30	750	11.7	87	7.8	512	7.0	2.0	54.5
APR 16-18	0123	Composite (time)	7.58	--	--	--	--	8.1	557	--	--	68.6
MAY 05...	1320	Environmental	4.78	44	730	8.8	82	7.8	574	10.0	10.1	56.0
MAY 11-12	0100	Composite (time)	7.08	--	--	--	--	7.2	526	--	--	59.8
JUN 20...	0920	Environmental	3.92	15	742	7.0	76	7.8	569	26.0	18.0	41.3
JUN 25-27	0100	Composite (time)	--	--	--	--	--	7.4	312	--	--	28.5
JUL 21...	0940	Environmental	4.60	37	739	5.2	61	7.3	451	22.0	21.1	30.1
AUG 04...	1220	Environmental	3.71	8.2	742	6.5	70	7.9	523	21.0	17.9	27.1
SEP 25...	1130	Environmental	3.42	3.5	745	7.6	69	7.7	660	12.0	9.5	19.2

Date	Residue total at 105 deg. C, suspended, mg/L (00530)	Residue volatile, suspended, 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)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	COD, high level, water, unfltrd mg/L (00340)
OCT 30...	<10	<10	0.83	<0.04	0.32	0.009	0.05	0.06	20
NOV 14...	<10	<10	1.0	E.03	0.18	E.005	E.04	0.06	30
DEC 31...	<10	<10	0.99	0.19	0.13	E.004	E.03	0.09	20
JAN 16...	<10	<10	0.91	0.21	0.08	<0.008	E.02	0.06	20
FEB 13...	<10	<10	0.75	0.41	0.07	<0.008	E.03	E.04	--
MAR 21...	16	<10	4.0	1.51	1.54	0.086	0.35	0.51	60
APR 07...	15	<10	1.9	0.56	0.39	0.021	0.05	0.17	40
APR 16-18	24	--	1.7	<0.04	0.80	0.030	0.08	0.18	50
MAY 05...	<10	<10	1.4	0.09	E.04	E.006	0.07	0.14	40
MAY 11-12	29	--	1.4	E.04	0.49	0.013	0.08	0.16	50
JUN 20...	<10	<10	1.3	0.07	0.10	E.007	0.20	0.27	50
JUN 25-27	128	--	1.8	E.03	1.33	0.075	0.22	0.45	60
JUL 21...	14	<10	1.4	E.04	0.17	0.034	0.22	0.34	40
AUG 04...	<10	<10	1.1	<0.04	<0.06	<0.008	0.17	0.23	60
SEP 25...	<10	<10	0.53	0.04	E.04	E.004	0.05	0.11	20

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