

Appendix 8.

Elm Creek Near Champlin (USGS Station 05287890)

Manual Water Quality Samples for Water Year 2003

DATE	Sample Start Time	Disch Inst cfs	Water Temp. °C	Air Temp. °C	Barom Press mm Hg	DO mg/L	DO % Satur	COD mg/L	Sp cond µs/cm	pH
Oct 30, 2002	1030	100	4.5	5	748	9.3	74	20	438	7.7
Nov 14, 2002	10:30	52	1.6	-2	745	11	81	30	456	7.7
Dec 31, 2002	10:10	7	-0.2	6	743	11.1	78	20	686	7.7
Jan 16, 2003	9:30	6.9	-0.2	-8	749	8.9	62	20	734	7.4
Feb 13, 2003	10:55	2.5	-0.2	1	746	9.2	64	#	709	7.6
Mar 21, 2003	10:30	92	0.2	2	734	10.2	73	60	424	7.5
Apr 07, 2003	11:00	30	2	7	750	11.7	87	40	512	7.8
May 05, 2003	13:20	44	10.1	10	730	8.8	82	40	574	7.8
Jun 20, 2003	9:20	15	18	26	742	7	76	50	569	7.8
Jul 21, 2003	9:40	37	21.1	22	739	5.2	61	40	451	7.3
Aug 04, 2003	12:20	8.2	17.9	21	742	6.5	70	60	523	7.9
Sep 25, 2003	11:30	3.5	9.5	12	745	7.6	69		660	7.7

Broken bottle in shipping

DATE	Sample Start Time	TSS mg/L	Volatile Residue mg/L	Dissolve Chloride mg/L	Ammonia mg/L	Dissolved NO2+NO3 mg/L	Nitrite mg/L	Total Nitrogen mg/L	Dissolve P mg/L	Total P mg/L
Oct 30, 2002	1030	<10	<10	30.8	<.04	0.32	0.009	0.83	0.05	0.06
Nov 14, 2002	10:30	<10	<10	34.2	E.03	0.18	E.005	1	E.04	0.06
Dec 31, 2002	10:10	<10	<10	42.2	0.19	0.13	E.004	0.99	E.03	0.09
Jan 16, 2003	9:30	<10	<10	32	0.21	0.08	<.008	0.91	E.02	0.06
Feb 13, 2003	10:55	<10	<10	21.8	0.41	0.07	<.008	0.75	E.03	E.04
Mar 21, 2003	10:30	16	<10	57.7	1.51	1.54	0.086	4	0.35	0.51
Apr 07, 2003	11:00	15	<10	54.5	0.56	0.39	0.021	1.9	0.05	0.17
May 05, 2003	13:20	<10	<10	56	0.09	E.04	E.006	1.4	0.07	0.14
Jun 20, 2003	9:20	<10	<10	41.3	0.07	0.1	E.007	1.3	0.2	0.27
Jul 21, 2003	9:40	14	<10	30.1	E.04	0.17	0.034	1.4	0.22	0.34
Aug 04, 2003	12:20	<10	<10	27.1	<.04	<.06	<.008	1.1	0.17	0.23
Sep 25, 2003	11:30									

Data are provisional and are subject to change

Elm Creek Automatic Event Samples for Water Year 2003

Date and Time	Sp Cond µs/cm	pH	TSS mg/L	COD mg/L	Ammonia mg/L	Nitrite mg/L	Total N mg/L	Dissolved NO2+NO3 mg/L	Total P mg/L	Dissolved P mg/L	Dissolved Chloride mg/L
April 16 1:23 to											
April 18 22:24	557	8.1	24	50	<.04	0.03	1.7	0.8	0.18	0.08	68.6
May 11 1:00 to											
May 12 10:00	526	7.2	29	50	E.04	0.013	1.4	0.49	0.16	0.08	59.8
June 25 1:00											
June 27 7:00	312	7.4	128	60	E.03	0.075	1.8	1.33	0.45	0.22	28.5

Sp Cond = Specific Conductivity TSS = Total Suspended Sediments
 COD = Chemical Oxygen Demand TKN = Total Kjeldahl Nitrogen