

# Elm Creek Water Quality Data

## Elm Creek Near Champlin (USGS Station 05287890)

### Manual Water Quality Samples for Water Year 2004

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 27, 2003	10:30	1.8	5.6	N/A	737	7.7	61	20	677	7.7
Nov 13, 2003	09:50	2	1.8	N/A	750	11.9	86	20	652	7.7
Dec 17, 2003	09:50	2.3	0.3	N/A	739	9.5	66	10	680	7.7
Jan 21, 2004	10:00	1.6	0.1	N/A	736	10.7	74	<10	755	7.6
Feb 26, 2004	10:20	1.9	1.7	N/A	747	11.7	84	10	708	7.8
Mar 15, 2004	09:30	15	0.1	N/A	749	12.8	88	30	710	7.3
Mar 22, 2004	11:25	47	0.1	N/A	750	13.2	91	40	608	7.4
Apr 12, 2004	10:00	12	5.2	N/A	748	12.8	101	30	614	8
May 20, 2004	13:15	38	18.5	N/A	744	8.5	93	20	672	7.7
Jul 14, 2004	09:45	111	22.4	N/A	742	4.3	50	30	462	7.1
Aug 19, 2004	10:40	2.7	14.4	N/A	746	7.2	71	30	483	7.5
Sep 29, 2004	09:30	25	12.5	N/A	746	8.3	78	30	490	7.7

DATE	Sample Start Time	TSS mg/L	Volatile Residue mg/L	Dissolve Chloride mg/L	Ammonia mg/L	Dissolved NO <sub>2</sub> +NO <sub>3</sub> mg/L	Nitrite mg/L	Total Nitrogen mg/L	Dissolve P mg/L	Total P mg/L
Oct 27, 2003	10:30	<10	<10	18.3	E.04	<.06	0.012	0.42	0.06	0.1
Nov 13, 2003	09:50	<10	<10	28.3	<.04	<.06	0.023	0.49	E.04	0.05
Dec 17, 2003	09:50	<10	<10	29.8	0.25	0.11	E.005	0.68	<.04	0.07
Jan 21, 2004	10:00	<10	<10	18.7	0.11	0.11	<.008	0.49	E.03	0.07
Feb 26, 2004	10:20	<10	<10	20.7	0.24	0.09	E.004	0.7	<.04	0.04
Mar 15, 2004	09:30	<10	<10	96.2	0.8	1.88	0.074	2.4	0.17	0.29
Mar 22, 2004	11:25	<20	<20	73.8	0.6	1.07	0.031	2	0.09	0.2
Apr 12, 2004	10:00	<20	<20	68.7	E.04	E.06	<.008	1.1	E.04	0.09
May 20, 2004	13:15	<10	<10	100	E.03	0.09	0.01	1	0.09	0.14
Jul 14, 2004	09:45	14	<10	46.1	<.04	E.03	<.008	1.2	0.22	0.28
Aug 19, 2004	10:40	10	<10	42.1	<.04	E.04	E.005	0.76	0.1	0.16
Sep 29, 2004	09:30	12	10	48.5	E.04	0.13	0.02	1.2	0.13	0.19

Data are provisional and are subject to change

E = Estimated

### Automatic Event Samples for Water Year 2004

DATE & TIME	Sp Cond µS/cm	pH	TSS mg/L	COD mg/L	Ammonia mg/L	Nitrite mg/L	Total N mg/L	Dissolved NO <sub>2</sub> +NO <sub>3</sub> mg/L	Total P mg/L	Dissolved P mg/L	Dissolved Chloride mg/L
Apr 18, 2004 22:50 to Apr 21, 2004 19:50	654	8.2	11	30	<.04	0.03	1.3	0.22	0.13	0.04	80.4
May 17, 2004 10:17 to May 18, 2004 10:17	682	8	<10	20	E.04	0.013	1.1	<.06	0.15	0.1	85.8
May 23, 2004 12:48 to May 26, 2004 09:49	609	8	14	30	E.03	0.075	1.3	0.37	0.19	0.1	86.3
May 29, 2004 06:42 to Jun 01, 2004 03:43	543	7.9	<10	30	E.04	0.075	1.3	0.44	0.2	0.12	68.7
Jun 11, 2004 21:49 to Jun 14, 2004 06:49	442	7.7	21	30	E.05	0.075	1.3	0.12	0.3	0.26	43.8
Sep 04, 2004 10:35 to Sep 06, 2004 07:35	629	8.2	11	20	E.06	0.075	0.64	0.09	0.14	0.08	26

E = Estimated

Sp Cond = Specific Conductivity

TSS = Total Suspended Sediments

COD = Chemical Oxygen Demand

Data are provisional and are subject to change

