

Water Quality at Miscellaneous Sites

VOYAGEURS NATIONAL PARK WATER QUALITY

Trophic Indicator Sites

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Trans- parency Secchi disc, meters (00078)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, deg C (00010)	Alka- linity, wat flt end lab, mg/L as CaCO3 (00421)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt fixed end pt, lab, mg/L (29805)
483511093092801 RAINY LAKE AT BLACK BAY NARROWS NR INT FALLS MN (LAT 48°35'38"N LONG 093°09'13"W)											
OCT 2002											
02...	1115	Environmental	0.75	6.1	58	7.3	66	11.4	--	--	--
15...	1530	Environmental	0.80	12.0	96	7.6	58	5.5	--	--	--
MAY 2003											
13...	1125	Environmental	0.70	10.7	103	7.8	86	13.8	--	26	--
28...	1105	Environmental	0.90	10.3	100	7.3	55	14.5	--	22	--
JUN											
09...	1230	Environmental	0.90	7.3	77	--	79	18.0	42	--	51
23...	1330	Environmental	0.90	9.2	101	7.6	61	19.5	25	--	30
JUL											
07...	1300	Environmental	0.50	8.4	94	7.9	103	21.3	42	--	51
21...	1320	Environmental	0.90	7.7	90	7.8	79	22.7	29	--	35
AUG											
04...	1010	Environmental	0.90	7.7	88	8.3	78	22.6	26	--	31
18...	1400	Environmental	0.70	8.5	101	8.5	73	24.3	25	--	30
SEP											
02...	0945	Environmental	0.30	7.3	76	7.1	97	18.0	36	--	44
15...	0940	Environmental	0.80	7.4	77	7.1	61	17.5	--	20	--
28...	1100	Environmental	0.25	9.9	86	7.4	70	8.8	--	24	--
483012093035001 KABETOGAMA LAKE AT CEMETARY ISLAND NEAR RAY, MN (LAT 48°30'12"N LONG 093°03'50"W)											
OCT 2002											
16...	1000	Environmental	4.00	10.0	84	7.6	64	8.0	--	--	--
MAY 2003											
14...	0945	Environmental	1.70	10.6	100	8.0	106	12.7	--	34	--
29...	0945	Environmental	1.70	10.2	103	7.4	92	15.6	--	42	--
JUN											
10...	0930	Environmental	2.60	8.9	94	7.4	93	17.6	38	--	47
24...	1100	Environmental	3.80	8.6	97	7.9	95	21.1	39	--	48
JUL											
08...	1515	Environmental	3.00	8.3	90	7.8	100	19.8	41	--	51
22...	1110	Environmental	2.30	8.7	99	8.1	101	21.4	39	--	48
AUG											
05...	0925	Environmental	2.80	8.7	102	8.8	101	22.9	41	--	50
19...	1035	Environmental	1.50	8.2	99	9.1	103	25.0	43	--	52
SEP											
03...	0920	Environmental	1.50	8.3	90	8.0	101	19.6	42	--	51
17...	0940	Environmental	2.40	5.9	64	6.8	102	19.0	--	41	--
29...	0930	Environmental	3.10	8.0	75	7.1	99	12.6	--	38	--
483341093111501 RAINY LK AT BLACK BAY (WEST) NR INTERNATIONAL FLLS (LAT 48°32'30"N LONG 093°11'15"W)											
OCT 2002											
02...	1140	Environmental	0.75	4.8	44	7.3	72	10.9	--	--	--
15...	1430	Environmental	0.75	11.6	91	7.0	61	5.5	--	--	--
MAY 2003											
13...	1025	Environmental	0.60	10.3	97	7.7	98	13.0	--	33	--
28...	0945	Environmental	--	8.4	88	7.2	85	18.1	--	38	--
JUN											
09...	0905	Environmental	0.40	7.5	81	--	91	19.6	42	--	51
23...	1045	Environmental	0.45	7.3	85	7.3	98	22.6	39	--	48
JUL											
07...	1130	Environmental	0.10	7.9	86	7.5	157	20.6	60	--	74
21...	1025	Environmental	0.30	6.9	78	7.2	114	22.0	42	--	52
AUG											
04...	0945	Environmental	0.30	9.2	109	8.8	108	23.8	44	--	54
18...	1420	Environmental	0.20	9.3	118	9.1	115	27.3	46	--	56
SEP											
02...	0925	Environmental	0.20	6.6	71	6.4	109	18.9	44	--	53

VOYAGEURS NATIONAL PARK WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt fixed end pt, lab, mg/L (29808)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)
483511093092801 RAINY LAKE AT BLACK BAY NARROWS NR INT FALLS MN (LAT 48°35'38"N LONG 093°09'13"W)													
OCT 2002													
02...	--	--	--	--	--	--	--	--	--	--	0.048	12.9	<0.1
15...	--	--	--	--	--	--	--	--	--	--	0.042	2.4	<0.1
MAY 2003													
13...	32	--	0.0	--	--	--	--	--	--	--	0.047	3.3	<0.1
28...	27	--	0.0	0.35	0.49	<0.015	0.025	E.002	<0.007	0.006	0.026	--	--
JUN													
09...	--	0.0	--	--	--	--	--	--	--	--	0.038	--	--
23...	--	0.0	--	--	--	--	--	--	--	--	0.038	3.6	0.2
JUL													
07...	--	0.0	--	--	--	--	--	--	--	--	0.071	--	--
21...	--	0.0	--	--	--	--	--	--	--	--	0.045	3.5	<0.1
AUG													
04...	--	0.0	--	--	--	--	--	--	--	--	0.046	--	--
18...	--	0.0	--	--	--	--	--	--	--	--	0.043	E8.9	<0.1
SEP													
02...	--	0.0	--	--	--	--	--	--	--	--	0.079	E2.2	<0.1
15...	24	--	0.0	--	--	--	--	--	--	--	0.042	E4.4	E.1
28...	29	--	0.0	--	--	--	--	--	--	--	--	--	--
483012093035001 KABETOGAMA LAKE AT CEMETARY ISLAND NEAR RAY, MN (LAT 48°30'12"N LONG 093°03'50"W)													
OCT 2002													
16...	--	--	--	--	--	--	--	--	--	--	0.032	1.5	<0.1
MAY 2003													
14...	42	--	0.0	--	--	--	--	--	--	--	0.024	1.7	<0.1
29...	51	--	0.0	0.39	0.54	<0.015	<0.022	<0.002	<0.007	0.004	--	--	--
JUN													
10...	--	0.0	--	--	--	--	--	--	--	--	0.014	--	--
24...	--	0.0	--	--	--	--	--	--	--	--	0.019	2.3	<0.1
JUL													
08...	--	0.0	--	--	--	--	--	--	--	--	0.024	--	--
22...	--	0.0	--	--	--	--	--	--	--	--	0.021	3.1	<0.1
AUG													
05...	--	0.0	--	--	--	--	--	--	--	--	0.018	--	--
19...	--	0.0	--	--	--	--	--	--	--	--	0.035	E13.0	<0.1
SEP													
03...	--	0.0	--	--	--	--	--	--	--	--	0.054	20.6	<0.1
17...	50	--	0.0	--	--	--	--	--	--	--	0.050	E7.6	<0.1
29...	47	--	0.0	--	--	--	--	--	--	--	--	--	--
483341093111501 RAINY LK AT BLACK BAY (WEST) NR INTERNATIONAL FLLS (LAT 48°32'30"N LONG 093°11'15"W)													
OCT 2002													
02...	--	--	--	--	--	--	--	--	--	--	0.045	3.4	<0.1
15...	--	--	--	--	--	--	--	--	--	--	0.062	3.0	<0.1
MAY 2003													
13...	40	--	0.0	--	--	--	--	--	--	--	0.052	3.2	<0.1
28...	46	--	0.0	0.47	0.65	0.019	E.013	E.002	<0.007	0.011	0.046	--	--
JUN													
09...	--	0.0	--	--	--	--	--	--	--	--	0.071	--	--
23...	--	0.0	--	--	--	--	--	--	--	--	0.060	2.6	0.2
JUL													
07...	--	0.0	--	--	--	--	--	--	--	--	0.23	--	--
21...	--	0.0	--	--	--	--	--	--	--	--	0.088	13.5	<0.1
AUG													
04...	--	0.0	--	--	--	--	--	--	--	--	0.072	--	--
18...	--	0.0	--	--	--	--	--	--	--	--	0.095	E12.8	<0.1
SEP													
02...	--	0.0	--	--	--	--	--	--	--	--	0.096	E3.8	<0.1

VOYAGEURS NATIONAL PARK WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Trans- parency Secchi disc, meters (00078)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, water, deg C (00010)	Alka- linity, wat flt fxd end lab, mg/L as CaCO3 (00421)	Alka- linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar- bonate, wat flt fixed end pt, lab, mg/L (29805)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)
483341093111501 RAINY LK AT BLACK BAY (WEST) NR INTERNATIONAL FLLS (LAT 48°32'30"N LONG 093°11'15"W)												
SEP 2003												
15...	0925	Environmental	0.20	7.0	72	6.5	103	17.1	--	38	--	46
28...	1045	Environmental	0.10	9.6	81	6.7	94	8.0	--	35	--	43
482607092511701 KABETOGAMA LK AT MOUTH OF MEADWOOD BAY NR RAY MN (LAT 48°26'07"N LONG 092°51'17"W)												
OCT 2002												
16...	1125	Environmental	2.75	10.1	89	7.7	57	9.9	--	--	--	--
MAY 2003												
14...	1100	Environmental	2.00	12.2	107	7.4	105	9.9	--	35	--	43
29...	1120	Environmental	108	11.9	120	8.0	90	15.7	--	40	--	49
JUN												
10...	1050	Environmental	2.60	9.7	100	--	85	17.2	28	--	34	--
24...	1315	Environmental	3.70	8.1	88	7.7	86	19.1	28	--	34	--
JUL												
08...	1415	Environmental	3.20	8.4	84	7.7	86	20.6	32	--	40	--
22...	1236	Environmental	2.60	8.2	93	8.3	95	22.1	38	--	46	--
AUG												
05...	1020	Environmental	2.70	8.5	99	8.8	98	23.3	40	--	48	--
19...	1200	Environmental	1.80	8.8	107	9.2	99	25.3	39	--	48	--
SEP												
03...	1050	Environmental	1.40	7.2	80	7.7	97	20.6	40	--	48	--
17...	1125	Environmental	2.20	8.2	88	7.7	98	19.2	--	40	--	49
29...	1100	Environmental	2.10	8.9	86	7.6	97	14.0	--	39	--	48
482731092574701 KABETOGAMA LAKE NEAR GRAVE ISLAND NEAR RAY, MN (LAT 48°27'31"N LONG 092°57'47"W)												
OCT 2002												
16...	1035	Environmental	3.25	10.2	89	7.6	65	9.6	--	--	--	--
MAY 2003												
14...	1020	Environmental	1.70	11.6	107	7.8	108	11.8	--	35	--	43
29...	1040	Environmental	1.70	11.6	113	7.5	92	13.9	--	41	--	50
JUN												
10...	1010	Environmental	2.80	9.6	99	--	92	17.0	37	--	45	--
24...	1140	Environmental	--	9.0	102	8.2	93	21.5	54	--	65	--
JUL												
08...	1440	Environmental	2.70	8.0	87	7.6	97	19.5	40	--	49	--
22...	1142	Environmental	2.60	8.5	96	8.4	98	21.6	39	--	48	--
AUG												
05...	0955	Environmental	2.90	9.2	108	9.0	98	23.4	39	--	47	--
19...	1120	Environmental	1.80	8.8	108	9.2	101	25.6	40	--	48	--
SEP												
03...	1000	Environmental	1.80	7.1	78	7.7	100	20.0	40	--	49	--
17...	1040	Environmental	2.90	7.1	77	7.4	100	19.2	--	40	--	49
29...	1015	Environmental	3.00	8.8	84	7.5	99	13.5	--	39	--	48
483304093062701 RAINY LAKE AT BLACK BAY NR INT FALLS MN (LAT 48°33'04"N LONG 093°06'27"W)												
OCT 2002												
02...	1200	Environmental	0.75	3.9	36	7.3	72	11.9	--	--	--	--
15...	1500	Environmental	0.50	11.0	89	7.5	61	6.1	--	--	--	--
MAY 2003												
13...	1055	Environmental	0.60	10.1	97	7.7	100	13.9	--	35	--	43
28...	1025	Environmental	0.30	8.7	93	7.4	85	18.0	--	39	--	48
JUN												
09...	1200	Environmental	0.70	4.5	40	--	86	17.4	34	--	42	--

VOYAGEURS NATIONAL PARK WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Carbonate, wat flt fixed end pt, lab, mg/L (29808)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)
483341093111501 RAINY LK AT BLACK BAY (WEST) NR INTERNATIONAL FLLS (LAT 48°32'30"N LONG 093°11'15"W)												
SEP 2003												
15...	--	0.0	--	--	--	--	--	--	--	0.099	E3.1	E.1
28...	--	0.0	--	--	--	--	--	--	--	--	--	--
482607092511701 KABETOGAMA LK AT MOUTH OF MEADWOOD BAY NR RAY MN (LAT 48 26 07"N LONG 092 51 17"W)												
OCT 2002												
16...	--	--	--	--	--	--	--	--	--	0.035	2.7	<0.1
MAY 2003												
14...	--	0.0	--	--	--	--	--	--	--	0.016	2.7	<0.1
29...	--	0.0	0.39	0.64	<0.015	<0.022	<0.002	<0.007	0.010	--	--	--
JUN												
10...	0.0	--	--	--	--	--	--	--	--	0.013	--	--
24...	0.0	--	--	--	--	--	--	--	--	0.018	1.3	<0.1
JUL												
08...	0.0	--	--	--	--	--	--	--	--	0.015	--	--
22...	0.0	--	--	--	--	--	--	--	--	0.018	4.1	<0.1
AUG												
05...	0.0	--	--	--	--	--	--	--	--	0.017	--	--
19...	0.0	--	--	--	--	--	--	--	--	0.027	E8.9	<0.1
SEP												
03...	0.0	--	--	--	--	--	--	--	--	0.053	E7.5	<0.1
17...	--	0.0	--	--	--	--	--	--	--	0.042	E7.8	<0.1
29...	--	0.0	--	--	--	--	--	--	--	--	--	--
482731092574701 KABETOGAMA LAKE NEAR GRAVE ISLAND NEAR RAY, MN (LAT 48°27'31"N LONG 092°57'47"W)												
OCT 2002												
16...	--	--	--	--	--	--	--	--	--	0.038	4.5	<0.1
MAY 2003												
14...	--	0.0	--	--	--	--	--	--	--	0.020	2.1	<0.1
29...	--	0.0	0.39	0.57	<0.015	<0.022	<0.002	<0.007	E.004	--	--	--
JUN												
10...	0.0	--	--	--	--	--	--	--	--	0.012	--	--
24...	0.0	--	--	--	--	--	--	--	--	0.014	2.1	0.1
JUL												
08...	0.0	--	--	--	--	--	--	--	--	0.021	--	--
22...	0.0	--	--	--	--	--	--	--	--	0.027	4.2	<0.1
AUG												
05...	0.0	--	--	--	--	--	--	--	--	0.021	--	--
19...	0.0	--	--	--	--	--	--	--	--	0.033	E6.5	<0.1
SEP												
03...	0.0	--	--	--	--	--	--	--	--	0.051	E3.4	<0.1
17...	--	0.0	--	--	--	--	--	--	--	0.042	E9.9	<0.1
29...	--	0.0	--	--	--	--	--	--	--	--	--	--
483304093062701 RAINY LAKE AT BLACK BAY NR INT FALLS MN (LAT 48°33'04"N LONG 093°06'27"W)												
OCT 2002												
02...	--	--	--	--	--	--	--	--	--	0.050	3.5	<0.1
15...	--	--	--	--	--	--	--	--	--	0.101	2.8	<0.1
MAY 2003												
13...	--	0.0	--	--	--	--	--	--	--	0.069	4.1	<0.1
28...	--	0.0	0.44	1.1	E.008	E.014	E.002	<0.007	0.010	0.076	--	--
JUN												
09...	0.0	--	--	--	--	--	--	--	--	0.049	--	--

VOYAGEURS NATIONAL PARK WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Trans- parency Secchi disc, meters (00078)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf uS/cm 25 deg C (00095)	Temper- ature, water, deg C (00010)	Alka- linity, wat flt fxd end lab, mg/L as CaCO ₃ (00421)	Alka- linity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicar- bonate, wat flt fixed end pt, lab, mg/L (29805)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)
483622092560701 RAINY LK AT BRULE NARROWS NR INTERNTNL FALLS, MN (LAT 48°36'22"N LONG 092°56'07"W)												
MAY 2003												
13...	1213	Environmental	2.20	12.1	104	6.6	52	10.5	12	--	15	--
28...	0800	Blank	--	--	--	--	--	--	--	--	--	--
28...	1240	Environmental	2.20	12.1	116	7.1	47	13.4	--	16	--	20
JUN												
09...	1310	Environmental	2.00	9.8	100	--	44	15.9	--	--	--	--
23...	1415	Environmental	2.80	9.3	100	7.5	46	19.0	14	--	18	--
JUL												
21...	1400	Environmental	2.20	8.3	93	7.7	48	21.0	15	--	18	--
AUG												
04...	1050	Environmental	2.50	7.8	89	7.3	47	22.1	14	--	17	--
18...	1200	Environmental	2.30	7.7	91	6.8	48	23.7	14	--	17	--
SEP												
02...	1022	Environmental	2.50	7.8	85	6.5	48	19.2	15	--	18	--
15...	1030	Environmental	3.00	7.2	77	7.1	48	18.3	--	14	--	17
28...	1140	Environmental	3.00	9.2	86	6.9	48	12.1	--	15	--	19
482616092372201 NAMAKAN LAKE NEAR RAY, MN (LAT 48°26'16"N LONG 092°37'22"W)												
MAY 2003												
14...	1205	Environmental	3.00	12.0	96	7.1	55	5.9	14	--	16	--
29...	1455	Environmental	--	12.4	117	7.0	46	16.0	--	16	--	20
JUN												
10...	1145	Environmental	--	10.4	107	7.4	46	16.7	12	--	15	--
24...	1555	Environmental	3.50	9.2	102	7.6	46	20.1	14	--	17	--
JUL												
22...	1340	Environmental	3.00	8.2	94	7.9	48	21.9	14	--	16	--
AUG												
05...	1100	Environmental	4.00	7.4	87	7.2	47	23.3	14	--	17	--
19...	1330	Environmental	3.00	7.7	93	7.3	48	25.3	13	--	16	--
SEP												
19...	1005	Environmental	4.10	8.0	85	6.7	48	18.2	15	--	18	--
29...	1230	Environmental	3.50	9.0	8,600	7.1	49	13.6	14	--	17	--
482226092283301 SANDPOINT LK BL HARRISON NARROWS NR CRANE LK, MN (LAT 48°22'26"N LONG 092°28'33"W)												
MAY 2003												
14...	1305	Environmental	2.20	11.7	98	7.2	76	7.6	18	--	22	--
29...	1340	Environmental	1.90	11.5	113	7.3	66	14.8	--	21	--	25
JUN												
10...	1320	Environmental	2.20	10.2	107	7.1	66	2.2	20	--	24	--
24...	1425	Environmental	2.90	8.8	98	7.6	67	20.6	20	--	24	--
JUL												
23...	1135	Environmental	2.95	8.0	92	7.5	71	22.0	19	--	24	--
AUG												
05...	1155	Environmental	3.30	7.7	90	7.5	72	23.6	20	--	24	--
19...	1430	Environmental	2.50	7.7	93	7.7	73	25.2	20	--	25	--
SEP												
19...	1145	Environmental	3.30	--	--	--	--	--	20	--	24	--
29...	1330	Environmental	3.10	9.4	90	7.1	72	13.3	20	--	24	--

WATER QUALITY DATA

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GLACIAL RIDGE WATER QUALITY

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specific conductance, wat unfl lab, uS/cm 25 deg C (90095)	Specific conductance, wat unfl lab, uS/cm 25 deg C (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
05078470 JUDICIAL DITCH 64 NEAR MENTOR, MN (SW4) (LAT 47°44'16"N LONG 096°12'08"W)												
OCT 2002												
16...	1745	Environmental	--	737	12.3	8.2	--	--	584	3.9	--	--
NOV												
26...	1220	Environmental	0.55	747	11.0	8.0	7.7	700	730	0.0	102	38.1
JAN 2003												
08...	1330	Environmental	0.10	724	11.8	7.9	--	--	592	0.0	--	--
APR												
01...	1540	Environmental	0.90	730	11.2	7.9	8.0	418	424	5.0	48.4	20.5
MAY												
01...	0830	Environmental	2.6	736	8.3	7.8	8.0	609	638	8.2	83.2	37.0
JUN												
04...	1030	Environmental	1.5	734	9.4	8.0	8.1	644	668	16.7	82.3	38.4
11...	1350	Environmental	17	731	6.7	7.8	7.9	506	525	18.8	59.2	29.2
JUL												
02...	1250	Environmental	6.2	727	5.3	7.6	7.9	558	599	24.8	71.3	33.9
AUG												
05...	1230	Environmental	0.06	734	8.3	8.0	8.0	508	532	21.6	63.2	31.5
SEP												
03...	0930	Environmental	0.01	737	7.8	7.6	8.0	528	567	15.4	60.0	30.5
30...	0820	Environmental	0.02	741	10.0	7.6	8.1	522	560	5.2	70.2	32.6
05078520 CYR CREEK NEAR MARCOUX CORNERS, MN (SW5) (LAT 47°48'12"N LONG 096°16'35"W)												
OCT 2002												
16...	1705	Environmental	--	737	10.5	8.2	--	--	704	4.3	--	--
NOV												
26...	1030	Environmental	0.17	750	11.7	8.0	7.8	752	797	0.3	100	43.7
JAN 2003												
08...	1120	Environmental	0.06	726	5.5	7.9	--	--	948	0.4	--	--
APR												
01...	1320	Environmental	1.1	732	11.1	7.8	7.9	654	668	5.8	72.3	35.8
30...	1040	Environmental	1.0	736	10.1	8.0	8.1	670	706	10.7	78.1	42.9
JUN												
04...	0830	Environmental	0.44	736	7.0	7.8	8.0	664	691	17.1	73.3	41.4
11...	1105	Environmental	17	734	7.8	7.8	7.8	534	550	17.3	54.6	31.5
JUL												
02...	1100	Environmental	0.99	728	5.2	7.7	7.9	656	698	23.5	75.5	38.7
05078730 COUNTY DITCH 140 NEAR BENOIT, MN (SW1) LAT 47°41'15"N LONG 096°22'23"W)												
OCT 2002												
16...	1545	Environmental	--	736	11.5	8.2	--	--	1,130	7.4	--	--
NOV												
25...	1550	Environmental	0.09	742	18.0	8.2	7.9	750	784	0.0	90.6	45.6
25...	1551	Replicate	0.08	742	18.0	8.2	7.9	746	784	0.0	91.3	46.1
APR 2003												
01...	0820	Environmental	1.4	732	10.3	7.7	7.8	430	420	0.1	44.7	22.6
29...	1550	Environmental	0.23	740	17.3	8.4	8.4	817	836	15.9	86.2	52.3
JUN												
03...	1120	Environmental	0.09	737	8.7	7.9	7.8	910	935	17.4	74.1	60.8
10...	1650	Environmental	8.8	733	7.7	7.8	7.9	731	762	21.4	66.3	46.9
JUL												
01...	1400	Environmental	21	734	10.7	8.3	8.3	605	641	24.8	70.8	37.4
AUG												
05...	0800	Environmental	0.01	736	1.4	7.5	7.7	1,210	1,190	20.1	82.0	82.6

WATER QUALITY DATA

GLACIAL RIDGE WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicar- bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon- ate, wat flt incrm. titr., field, mg/L (00452)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)
05078470 JUDICIAL DITCH 64 NEAR MENTOR, MN (SW4) (LAT 47°44'16"N LONG 096°12'08"W)													
OCT 2002													
16...	--	--	--	--	--	--	--	--	0.80	0.83	<0.04	0.10	E.007
NOV													
26...	3.30	7.57	--	--	--	7.05	--	26.8	0.53	0.56	0.06	0.40	0.016
JAN 2003													
08...	--	--	304	371	--	--	--	--	0.62	0.57	0.26	0.27	<0.008
APR													
01...	10.8	5.51	173	211	--	9.51	0.14	27.7	0.79	0.94	<0.04	E.05	E.005
MAY													
01...	5.15	9.05	302	368	--	8.07	--	28.4	0.81	0.83	<0.04	<0.12	<0.008
JUN													
04...	2.98	7.79	322	393	--	4.91	--	18.6	1.2	1.3	<0.04	<0.06	E.004
11...	2.80	8.01	251	306	--	6.04	--	20.2	1.3	1.3	<0.04	<0.06	<0.008
JUL													
02...	3.18	6.30	304	371	--	5.12	--	12.0	1.5	1.4	<0.04	<0.06	<0.008
AUG													
05...	2.31	6.59	253	309	--	6.37	--	13.4	0.88	0.94	<0.04	E.04	<0.008
SEP													
03...	3.11	5.78	253	309	--	9.48	--	32.0	0.66	0.81	<0.04	<0.06	<0.008
30...	3.40	6.38	238	290	--	10.0	--	46.2	0.46	0.55	<0.04	<0.06	<0.008
05078520 CYR CREEK NEAR MARCOUX CORNERS, MN (SW5) (LAT 47°48'12"N LONG 096°16'35"W)													
OCT 2002													
16...	--	--	--	--	--	--	--	--	0.58	0.65	--	<0.06	--
NOV													
26...	3.67	14.6	--	--	--	16.0	--	47.0	0.52	0.53	E.04	0.73	0.027
JAN 2003													
08...	--	--	480	586	--	--	--	--	0.77	0.97	0.18	<0.06	<0.008
APR													
01...	8.45	15.5	218	266	--	22.5	0.16	109	0.92	1.1	E.03	0.19	0.008
30...	4.86	14.5	299	365	--	18.8	--	54.1	0.77	0.85	<0.04	<0.12	<0.008
JUN													
04...	3.80	14.2	309	377	--	14.4	--	32.9	1.0	1.1	<0.04	<0.06	<0.008
11...	2.80	14.1	215	262	--	10.4	--	64.4	1.1	1.2	<0.04	0.61	0.038
JUL													
02...	2.59	15.4	302	368	--	11.8	--	57.8	1.2	1.2	E.03	<0.06	E.004
05078730 COUNTY DITCH 140 NEAR BENOIT, MN (SW1) (LAT 47°41'15"N LONG 096°22'23"W)													
OCT 2002													
16...	--	--	--	--	--	--	--	--	2.2	2.4	1.24	0.21	0.037
NOV													
25...	5.25	16.5	--	--	--	8.61	--	123	1.0	1.1	0.08	0.23	0.008
25...	5.03	16.7	--	--	--	8.17	--	125	1.0	1.1	0.08	0.23	0.008
APR 2003													
01...	6.04	8.29	133	162	--	7.74	0.12	78.4	0.91	1.6	0.24	0.14	0.009
29...	5.42	25.8	250	305	11	9.13	--	205	0.87	1.0	<0.04	<0.06	<0.008
JUN													
03...	2.92	37.7	228	278	--	6.94	--	261	1.1	1.2	<0.04	<0.06	<0.008
10...	2.39	27.6	221	270	--	6.04	--	169	1.0	1.1	<0.04	0.07	E.007
JUL													
01...	5.38	11.1	260	317	7	10.8	--	70.2	1.0	1.3	<0.04	<0.06	E.006
AUG													
05...	14.1	57.8	381	465	--	17.7	--	281	3.4	3.4	0.78	<0.06	E.004

GLACIAL RIDGE WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)
05078470 JUDICIAL DITCH 64 NEAR MENTOR, MN (SW4) (LAT 47°44'16"N LONG 096°12'08"W)			
OCT 2002			
16...	<0.02	0.011	0.013
NOV			
26...	<0.02	E.004	0.007
JAN 2003			
08...	<0.02	E.004	0.005
APR			
01...	<0.02	0.016	0.030
MAY			
01...	<0.02	0.010	0.010
JUN			
04...	<0.02	0.014	0.019
11...	<0.02	0.018	0.028
JUL			
02...	<0.02	0.025	0.033
AUG			
05...	<0.09	0.012	0.029
SEP			
03...	<0.02	0.013	0.023
30...	<0.02	0.006	0.018
05078520 CYR CREEK NEAR MARCOUX CORNERS, MN (SW5) (LAT 47°48'12"N LONG 096°16'35"W)			
OCT 2002			
16...	E.01	0.019	0.028
NOV			
26...	<0.02	0.009	0.023
JAN 2003			
08...	E.01	0.019	0.075
APR			
01...	<0.02	0.029	0.051
30...	E.01	0.014	0.022
JUN			
04...	E.01	0.032	0.042
11...	E.01	0.031	0.050
JUL			
02...	0.04	0.067	0.078
05078730 COUNTY DITCH 140 NEAR BENOIT, MN (SW1) (LAT 47°41'15"N LONG 096°22'23"W)			
OCT 2002			
16...	0.02	0.037	0.072
NOV			
25...	<0.02	0.018	0.047
25...	<0.02	0.019	0.050
APR 2003			
01...	E.02	0.037	0.148
29...	<0.02	0.023	0.052
JUN			
03...	0.02	0.050	0.066
10...	<0.02	0.012	0.030
JUL			
01...	<0.02	0.011	0.042
AUG			
05...	0.15	0.26	0.38

WATER QUALITY DATA
GLACIAL RIDGE WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfl lab, uS/cm 25 deg C (90095)	Specif. conductance, wat unfl lab, uS/cm 25 deg C (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
05078770 JUDICIAL DITCH 66 NEAR MARCOUX CORNERS, MN (SW6) (LAT 47°46'54"N LONG 096°19'52"W)												
OCT 2002												
16...	1630	Environmental	--	737	12.1	8.5	--	--	524	6.3	--	--
16...	1631	Blank	--	--	--	--	--	--	--	--	--	--
NOV												
26...	0845	Environmental	1.1	751	12.4	8.0	7.8	544	574	0.0	69.8	30.6
JAN 2003												
08...	0900	Environmental	1.3	724	13.0	8.2	--	--	526	0.0	--	--
FEB												
20...	0840	Environmental	0.34	735	11.3	7.7	7.7	554	547	0.0	71.0	29.6
20...	0841	Blank	--	--	--	--	7.2	E4	--	--	E.01	<0.008
APR												
01...	1100	Environmental	4.2	732	11.3	7.9	7.9	552	587	3.4	61.5	28.3
30...	0830	Environmental	1.9	737	11.5	8.0	8.1	556	579	7.3	67.8	32.0
JUN												
03...	1350	Environmental	1.2	737	10.6	8.3	8.2	547	561	21.4	64.1	31.2
11...	0830	Environmental	17	734	7.7	7.7	7.9	632	652	16.6	66.1	34.7
JUL												
02...	0800	Environmental	3.5	729	7.2	7.8	8.1	549	579	21.2	64.2	30.9
AUG												
05...	1020	Environmental	0.50	736	7.6	8.0	8.1	572	593	21.0	74.1	27.9
SEP												
03...	1120	Environmental	0.04	740	10.0	8.0	8.2	502	533	16.8	60.2	28.0
03...	1125	Blank	--	--	--	--	--	--	--	--	--	--
30...	1050	Environmental	0.19	744	12.4	8.0	8.2	551	587	4.6	84.2	30.5
05079200 COUNTY DITCH 72 (BURNHAM CK) NR. MAPLE BAY (SW3) (LAT 47°38'19"N LONG 096°16'48"W)												
OCT 2002												
16...	1455	Environmental	--	736	11.9	8.2	--	--	644	6.5	--	--
NOV												
25...	1400	Environmental	0.19	742	9.1	7.6	7.4	689	720	0.0	103	33.3
MAR 2003												
31...	1440	Environmental	0.69	722	10.2	8.0	7.9	459	474	11.5	59.9	21.3
APR												
28...	1550	Environmental	1.4	737	12.2	8.2	8.2	594	641	14.4	87.0	28.4
JUN												
02...	1400	Environmental	0.35	733	15.3	8.6	8.5	560	562	25.2	70.8	31.2
02...	1401	Replicate	0.35	733	15.3	8.6	8.4	556	562	25.2	71.8	30.9
02...	1402	Blank	--	--	--	--	7.3	E3	--	--	0.07	0.029
10...	1440	Environmental	21	730	7.2	7.7	7.7	400	407	15.9	51.6	19.0
JUL												
01...	1050	Environmental	2.8	733	11.5	8.1	8.0	565	592	21.3	77.2	30.3
AUG												
04...	1400	Environmental	0.08	733	12.2	8.2	8.3	541	564	26.2	66.7	28.9
SEP												
03...	0740	Environmental	0.02	736	3.3	7.3	7.9	431	449	13.6	35.5	26.2
29...	1400	Environmental	0.04	739	9.7	7.7	8.1	552	598	9.8	84.0	28.0
05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN (SW2) (LAT 47°36'43"N LONG 096°16'46"W)												
OCT 2002												
16...	1420	Environmental	--	736	9.5	8.1	--	--	570	5.0	--	--
NOV												
25...	1150	Environmental	0.39	742	9.4	7.6	7.8	647	674	0.0	85.4	39.3
JAN 2003												
07...	1230	Environmental	0.16	730	8.8	8.4	--	--	655	0.1	--	--
FEB												
19...	1240	Environmental	0.02	735	2.5	7.1	7.5	422	430	0.0	65.6	18.8

GLACIAL RIDGE WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka- linity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicar- bonate, wat flt incr. titr., field, mg/L (00453)	Carbon- ate, wat flt incr. titr., field, mg/L (00452)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)
05078770 JUDICIAL DITCH 66 NEAR MARCOUX CORNERS, MN (SW6) (LAT 47°46'54"N LONG 096°19'52"W)													
OCT 2002													
16...	--	--	--	--	--	--	--	--	0.35	0.39	<0.04	0.69	0.010
16...	--	--	--	--	--	--	--	--	<0.10	<0.10	<0.04	<0.06	<0.008
NOV													
26...	3.77	7.75	--	--	--	7.50	--	66.2	0.36	0.33	0.05	1.04	0.014
JAN 2003													
08...	--	--	213	260	--	--	--	--	0.38	0.41	0.10	1.09	0.010
FEB													
20...	4.37	7.25	237	289	--	6.12	0.15	58.4	0.41	0.43	0.14	1.46	0.013
20...	<0.10	<0.09	--	--	--	<0.20	0.00	<0.2	<0.10	<0.10	<0.04	<0.06	<0.008
APR													
01...	6.50	11.1	158	193	--	13.0	0.12	114	0.86	1.1	0.10	0.64	0.015
30...	3.83	9.37	225	274	--	11.1	--	61.8	0.60	0.69	<0.04	0.16	<0.008
JUN													
03...	4.40	9.01	207	252	7	9.36	--	68.0	0.96	1.0	E.03	<0.06	E.006
11...	3.60	16.8	225	274	--	22.3	--	82.6	1.2	1.6	0.04	0.71	0.035
JUL													
02...	3.54	10.0	218	266	--	9.80	--	68.2	0.74	0.89	<0.04	E.04	E.005
AUG													
05...	2.93	7.63	265	323	--	7.77	--	41.0	0.76	0.83	E.03	<0.06	E.005
SEP													
03...	2.43	5.00	237	289	6	9.46	--	32.1	0.43	0.47	<0.04	<0.06	<0.008
03...	--	--	--	--	--	--	--	--	<0.10	<0.10	E.02	<0.06	<0.008
30...	3.16	7.12	247	301	--	8.95	--	53.8	0.36	0.41	<0.04	<0.06	<0.008
05079200 COUNTY DITCH 72 (BURNHAM CK) NR. MAPLE BAY (SW3) (LAT 47°38'9"N LONG 096°16'48"W)													
OCT 2002													
16...	--	--	--	--	--	--	--	--	0.71	0.84	0.14	0.22	0.025
NOV													
25...	2.34	8.05	--	--	--	12.4	--	64.8	0.57	0.52	0.05	0.53	0.015
MAR 2003													
31...	7.23	4.88	189	231	--	11.7	0.12	43.8	0.81	1.0	E.03	0.20	0.010
APR													
28...	3.08	6.80	284	346	4	13.8	--	42.8	0.79	0.82	<0.04	<0.12	<0.008
JUN													
02...	0.80	7.58	233	284	10	11.1	--	56.4	0.97	1.0	<0.04	<0.06	<0.008
02...	0.74	7.68	235	287	12	11.1	--	56.2	0.96	1.0	<0.04	<0.06	<0.008
02...	<0.16	<0.10	--	--	--	<0.20	--	<0.2	<0.10	<0.10	<0.04	<0.06	<0.008
10...	1.70	4.24	161	196	--	6.92	--	36.1	0.93	1.1	E.03	<0.06	<0.008
JUL													
01...	2.15	6.54	268	327	4	9.74	--	41.7	1.4	1.4	<0.04	<0.06	<0.008
AUG													
04...	2.75	10.5	262	320	7	14.4	--	20.9	1.2	1.2	<0.04	<0.06	<0.008
SEP													
03...	3.28	13.0	149	182	--	27.7	--	36.8	0.88	0.89	<0.04	<0.06	<0.008
29...	1.63	10.4	257	314	--	16.4	--	33.9	0.43	0.54	<0.04	<0.06	<0.008
05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN (SW2) (LAT 47°36'43"N LONG 096°16'46"W)													
OCT 2002													
16...	--	--	--	--	--	--	--	--	0.60	0.62	<0.04	<0.06	<0.008
NOV													
25...	3.60	8.90	--	--	--	9.23	--	13.1	0.73	0.72	<0.04	E.05	<0.008
JAN 2003													
07...	--	--	346	422	--	--	--	--	0.76	0.78	0.29	0.10	0.011
FEB													
19...	1.19	2.30	225	278	--	0.94	0.17	6.7	0.55	0.62	0.33	<0.06	<0.008

WATER QUALITY DATA

GLACIAL RIDGE WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)
05078770 JUDICIAL DITCH 66 NEAR MARCOUX CORNERS, MN (SW6) (LAT 47°46'54"N LONG 096°19'52"W)			
OCT 2002			
16...	<0.02	0.006	0.011
16...	<0.02	<0.004	<0.004
NOV			
26...	<0.02	E.004	0.011
JAN 2003			
08...	<0.02	0.005	0.015
FEB			
20...	<0.02	0.012	0.022
20...	<0.02	<0.004	<0.004
APR			
01...	<0.02	0.019	0.086
30...	<0.02	0.008	0.021
JUN			
03...	<0.02	0.011	0.040
11...	E.01	0.027	0.133
JUL			
02...	<0.02	0.021	0.055
AUG			
05...	<0.09	0.018	0.051
SEP			
03...	<0.02	0.007	0.026
03...	<0.02	<0.004	<0.004
30...	<0.02	0.006	0.019
05079200 COUNTY DITCH 72 (BURNHAM CK) NR. MAPLE BAY (SW3) (LAT 47°38' 9"N LONG 096°16'48"W)			
OCT 2002			
16...	<0.02	0.011	0.029
NOV			
25...	<0.02	0.007	0.013
MAR 2003			
31...	<0.02	0.023	0.046
APR			
28...	<0.02	0.010	0.017
JUN			
02...	<0.02	0.013	0.021
02...	0.06	0.013	0.017
02...	<0.02	<0.004	<0.004
10...	<0.02	0.015	0.041
JUL			
01...	<0.02	0.023	0.027
AUG			
04...	<0.09	0.025	0.037
SEP			
03...	<0.02	0.021	0.032
29...	<0.02	0.010	0.020
05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN (SW2) (LAT 47°36'43"N LONG 096°16'46"W)			
OCT 2002			
16...	<0.02	0.006	0.013
NOV			
25...	<0.02	0.008	0.016
JAN 2003			
07...	<0.02	E.004	0.014
FEB			
19...	<0.02	E.003	0.032

GLACIAL RIDGE WATER QUALITY—Continued

MISCELLANEOUS STATION ANALYSES

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfl lab, uS/cm 25 deg C (90095)	Specif. conductance, wat unfl lab, uS/cm 25 deg C (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN (SW2) (LAT 47°36'43"N LONG 096°16'46"W)												
MAR 2003												
31...	1150	Environmental	1.2	723	9.4	7.7	7.6	352	355	5.1	42.0	17.1
APR 29...	0950	Environmental	2.2	741	8.6	7.8	8.0	554	580	7.8	71.8	31.9
JUN 03...	0830	Environmental	9.6	735	4.9	7.4	7.5	433	446	15.7	54.0	21.4
JUN 10...	1220	Environmental	37	730	5.2	7.4	7.8	E418	442	15.4	50.2	23.9
JUL 01...	0830	Environmental	9.9	734	4.7	7.4	7.6	437	459	18.8	55.0	25.8
AUG 04...	1220	Environmental	0.05	734	7.0	7.5	7.8	562	591	23.2	73.9	28.7
SEP 29...	1200	Environmental	0.02	739	8.8	7.4	7.8	536	578	8.3	83.6	29.4

Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	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)	Orthophosphate, water, fltrd, mg/L as P (00671)
05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN (SW2) (LAT 47°36'43"N LONG 096° 6'46"W)													
MAR 2003													
31...	6.44	4.17	160	195	5.95	0.14	18.6	0.64	0.93	E.03	0.07	E.006	<0.02
APR 29...	4.61	9.09	338	413	8.39	--	20.7	0.83	0.89	<0.04	<0.12	<0.008	<0.02
JUN 03...	6.94	4.10	212	259	7.47	--	2.4	1.3	1.5	<0.04	<0.06	<0.008	<0.02
JUN 10...	3.30	6.47	222	271	5.28	--	11.2	1.2	1.4	<0.04	E.05	E.004	<0.02
JUL 01...	2.24	4.95	235	287	3.82	--	6.1	1.1	1.1	<0.04	<0.06	<0.008	<0.02
AUG 04...	1.70	8.21	312	381	4.54	--	3.5	0.96	1.0	<0.04	<0.06	<0.008	<0.09
SEP 29...	1.83	6.33	289	353	3.88	--	19.3	0.49	0.58	<0.04	<0.06	<0.008	<0.02

Date	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)
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05079250 COUNTY DITCH 65 NEAR MAPLE BAY, MN (SW2) (LAT 47°36'43"N LONG 096°16'46"W)

MAR 2003		
31...	0.022	0.071
APR 29...	0.011	0.022
JUN 03...	0.026	0.040
JUN 10...	0.026	0.073
JUL 01...	0.018	0.028
AUG 04...	0.015	0.035
SEP 29...	0.007	0.015