

STORET RETRIEVAL DATE 87/02/12  
TP CHLA & SECCHI LAKE JOHANNA

PGM=RET

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62-0078  
45 02 40.0 093 10 15.0 3  
LAKE: JOHANNA IN ARDEN HILLS  
27123 MINNESOTA RAMSEY  
AREA: 93 HECTARE B 070320  
MEAN DEPTH: 5.2 M MAX DEPTH: 12.2 M  
21MINNL 800412 07010206 HQ  
0000 FEET DEPTH

/TYPA/AMBNT/LAKE

INDEX  
MILES

DATE FROM TO	TIME OF DAY	MEDIUM	SMK OR DEPTH (FT)	00665 PHOS-TOT MG/L P	32211 CHLRPHYL A UG/L CORRECTD	00078 TRANSP SECCHI METERS
71/03/16	0000	WATER	4	.110		
72/02/28	0000	WATER	4	.048		
75/05/14	0000	WATER	0	.040	13.00	1.20
75/05/14	0001	WATER	0	.050	10.00	1.20
75/07/17	0000	WATER	0	.070	11.00	1.00
75/07/17	0001	WATER	0	.040	19.00	1.20
75/09/23	0000	WATER	0	.090	29.00	1.10
75/09/23	0001	WATER	0	.090	21.00	.90
76/05/26	1450	WATER	0		2.10	2.10
76/05/26	1525	WATER	0		2.30	2.90
76/06/14	0001	WATER	0	.040	9.00	2.30
76/06/14	0002	WATER	0	.040	8.00	2.40
76/08/20	0001	WATER	0	.040	21.00	.90
76/08/20	0002	WATER	0	.050	26.00	.70
77/03/09	0000	WATER	3	.050	2.00	4.30
77/06/15	0001	WATER	3	.010K	10.00	2.60
77/06/15	0002	WATER	3	.040	8.00	2.30
77/06/27	0000	WATER	3	.020	3.00	2.40
77/08/16	0001	WATER	3	.050	33.00	1.40
77/08/16	0002	WATER	3	.060	32.00	1.40
77/10/19	0000	WATER	3	.080	11.00	1.20
78/03/14	0000	WATER	0	.050	1.00K	2.30
78/04/18	0001	WATER	0	.070	12.00	1.40
78/04/18	0002	WATER	0			1.40
78/05/15	0001	WATER	0	.047	19.00	1.22
78/05/15	0002	WATER	0			1.22
78/06/20	0000	WATER	0	.040	3.00	.70
78/07/05	0001	WATER	0	.069	20.00	1.51
78/07/05	0002	WATER	0	.063		1.52
78/07/27	0001	WATER	0	.061	55.00	.78
78/07/27	0002	WATER	0			.76
78/08/17	0001	WATER	0	.057	50.00	.60
78/08/17	0002	WATER	0			.70
78/09/06	0001	WATER	0	.052	33.00	.99
78/09/06	0002	WATER	0			.97
78/09/21	0000	WATER	0	.050	11.00	1.20
78/09/25	0001	WATER	0	.063	41.00	1.00
78/09/25	0002	WATER	0			.86
78/10/16	0001	WATER	0	.075	52.00	.91
78/10/16	0002	WATER	0			.84
78/11/15	0001	WATER	0	.065	26.00	2.29
78/11/15	0002	WATER	0			2.34

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78/12/20	0001	WATER	0	.045	10.00	
79/01/24	0001	WATER	0	.050	5.00	
79/02/28	0001	WATER	0	.051	1.00	
79/03/19	0001	WATER	0	.069	1.00	
79/03/19		WATER	0	.070		
79/05/02	0001	WATER	0	.098	41.00	1.00
79/05/02	0002	WATER	0			1.00
79/05/20	0001	WATER	0	.051	31.00	1.10
79/05/20	0002	WATER	0	.059	29.00	1.10
79/06/14	0001	WATER	0	.076	4.00	3.05
79/06/14	0002	WATER	0	.075	4.00	3.35
79/07/01	0001	WATER	0	.039	5.00	2.36
79/07/01	0002	WATER	0	.036	6.00	1.98
79/07/22	0001	WATER	0	.060	33.00	1.60
79/07/22	0002	WATER	0	.049	11.00	1.83
79/08/06	0001	WATER	0	.051	17.00	1.60
79/08/06	0002	WATER	0	.048	16.00	1.60
79/08/13	0001	WATER	0	.053	25.00	1.52
79/08/13	0002	WATER	0	.045	25.00	1.52
79/08/30	0001	WATER	0	.072	21.00	1.37
79/08/30	0002	WATER	0	.076	25.00	1.22
79/09/24	0001	WATER	0	.070	29.00	1.14
79/09/24	0002	WATER	0	.063	29.00	1.14
79/10/08	0001	WATER	0	.067	25.00	.30
79/10/08	0002	WATER	0	.057	25.00	1.30
79/11/19	0001	WATER	0	.054	14.00	2.29
79/11/19	0002	WATER	0	.044	23.00	2.29
80/01/02	0001	WATER	0	.100	68.00	
81/04/07	0001	WATER	0		16.00	1.22
81/04/07	0001	WATER	1	.050	16.00	1.22
81/04/07	0001	WATER	6	.050		
81/04/07	0002	WATER	0		17.00	
81/04/07	0002	WATER	1	.030	17.00	
81/04/07	0002	WATER	4	.040		
81/05/06	0001	WATER	0		8.00	2.38
81/05/06	0001	WATER	1	.020	8.00	2.38
81/05/06	0001	WATER	6	.040		
81/05/06	0002	WATER	0		9.20	2.04
81/05/06	0002	WATER	1	.010		2.04
81/05/06	0002	WATER	3		9.20	
81/05/06	0002	WATER	4	.050		
81/05/26	1205	WATER	0	.048		1.60

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81/05/29	0001	WATER	0			1.30
81/05/29	0001	WATER	3	.030	24.10	
81/05/29	0001	WATER	6	.030		
81/05/29	0002	WATER	0			1.37
81/05/29	0002	WATER	3	.040	11.10	1.37
81/06/04	1135	WATER	0	.029		1.60
81/06/11	0001	WATER	0			1.07
81/06/11	0001	WATER	3	.040	7.50	
81/06/11	0001	WATER	6	.040	6.45	
81/06/11	0002	WATER	0			1.22
81/06/11	0002	WATER	1	.030	11.65	
81/06/11	0002	WATER	4	.030	6.95	
81/06/29	0001	WATER	0			1.07
81/06/29	0001	WATER	3	.030	18.28	
81/06/29	0001	WATER	6	.020		
81/06/29	0002	WATER	0			1.07
81/06/29	0002	WATER	3	.030	10.26	
81/06/29	0002	WATER	6	.020		
81/07/20	0002	WATER	0			.91
81/07/20	0002	WATER	3	.030		
81/07/20	0002	WATER	6	.030		
81/07/21	0001	WATER	0			.91
81/07/21	0001	WATER	3	.050		
81/07/21	0001	WATER	6	.040		
81/07/23	1055	WATER	0	.020		1.30
81/08/12	0001	WATER	3	.030	9.00	
81/08/12	0001	WATER	6	.030	17.00	
81/08/12	0002	WATER	0			1.45
81/08/12	0002	WATER	3	.050	21.00	
81/08/17	0935	WATER	0	.021		1.90
81/09/03	0001	WATER	0			1.83
81/09/03	0001	WATER	3	.040	12.00	
81/09/03	0001	WATER	6	.040	6.40	
81/09/03	0002	WATER	0			1.75
81/09/03	0002	WATER	3	.070	6.30	
81/09/03	0002	WATER	6	.100	19.00	
81/09/23	1045	WATER	0	.012		1.70
82/02/10	0001	WATER	3	.090	8.60	1.00
82/02/10	0001	WATER	6	.040		
82/02/10	0002	WATER	3	.080	7.90	1.00
82/02/10	0002	WATER	6	.040		
82/03/18	0001	WATER	3	.080	2.30	.91

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DATE FROM TO	TIME OF DAY	MEDIUM	SMK OR DEPTH (FT)	00665 PHOS--TOT MG/L P	32211 CHLRPHYL A UG/L CORRECTD	00078 TRANSP SECCHI METERS
82/03/18	0001	WATER	6	.090	2.80	
82/03/18	0002	WATER	3	.040	1.30	4.27
82/03/18	0002	WATER	6	.030	2.10	
82/04/26	0001	WATER	3	.090	49.00	1.30
82/04/26	0001	WATER	6	.110	52.00	
82/04/26	0002	WATER	3	.100	40.00	1.75
82/04/26	0002	WATER	6	.100	35.00	
82/05/14	0001	WATER	3	.060	4.00	2.29
82/05/14	0001	WATER	6	.050		
82/05/14	0002	WATER	3	.030	6.00	2.67
82/05/14	0002	WATER	6	.080		
82/06/08	0001	WATER	0	.030	1.00K	
82/06/08	0001	WATER	6	.040		
82/06/08	0002	WATER	0	.050	18.00	
82/06/08	0002	WATER	3	.050		
82/06/08	0002	WATER	6	.060		
82/06/09	0001	WATER	0	.060	15.00	2.13
82/06/09	0002	WATER	0	.060	13.00	1.52
82/06/09	0002	WATER	6	.060		
82/06/21	0001	WATER	0	.220	45.00	1.22
82/06/21	0001	WATER	6	.140		
82/06/21	0002	WATER	0	.090	7.00	1.22
82/06/21	0002	WATER	4	.060		
82/06/22	0002	WATER	4	.060		
82/07/07	0001	WATER	0	.040	10.00	1.98
82/07/07	0001	WATER	6	.040		
82/07/07	0002	WATER	0	.040	6.00	1.83
82/07/07	0002	WATER	4	.040		
82/07/20	0001	WATER	0	.030	6.00	2.29
82/07/20	0001	WATER	6	.030		
82/07/20	0002	WATER	0	.030	4.00	2.44
82/07/20	0002	WATER	4	.040		
82/08/05	0002	WATER	0	.040	8.00	1.98
82/08/05	0002	WATER	4	.040		
82/08/06	0001	WATER	0	.020	9.00	2.06
82/08/06	0001	WATER	6	.040		
82/08/25	0001	WATER	0	.040	9.00	1.52
82/08/25	0001	WATER	6	.090		
82/08/25	0002	WATER	0	.030	16.00	1.47
82/08/25	0002	WATER	4	.020		
82/09/23	0001	WATER	1	.050	26.00	1.68
82/09/23	0001	WATER	6	.040		

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DATE FROM TO	TIME OF DAY	MEDIUM	SMK OR DEPTH (FT)	00665 PHOS-TOT MG/L P	32211 CHLRPHYL A UG/L CORRECTD	00078 TRANSP SECCHI METERS
82/09/23	0002	WATER	1	.070	24.00	1.60
82/09/23	0002	WATER	4	.040		
82/10/11	0001	WATER	0			1.45
82/10/11	0002	WATER	0			1.37
82/11/05	0001	WATER	0	.080	34.00	1.68
82/11/05	0001	WATER	6	.110		
82/11/05	0002	WATER	0	.060	31.00	1.68
82/11/05	0002	WATER	4	.100		
83/01/07	0001	WATER	0	.110	19.00	.91
83/01/07	0001	WATER	6	.070		
83/01/07	0002	WATER	0	.090	15.00	1.68
83/01/07	0002	WATER	4	.080		
83/01/27	0001	WATER	0	.060	3.00	
83/01/27	0001	WATER	6	.060		
83/01/27	0002	WATER	0	.050	3.00	
83/01/27	0002	WATER	4	.080		
83/01/27	0002	WATER	6	.080		
83/02/15	0001	WATER	0	.050	4.00	4.70
83/02/15	0001	WATER	6	.030		
83/02/15	0002	WATER	0	.050	6.00	3.80
83/02/15	0002	WATER	4	.040		
83/04/11	0001	WATER	0	.080	3.00	2.00
83/04/11	0001	WATER	6	.080		
83/04/11	0002	WATER	0	.060	3.00	1.80
83/04/11	0002	WATER	4	.080		
83/05/11	0001	WATER	0	.060	3.00	1.10
83/05/11	0001	WATER	6	.060		
83/05/11	0002	WATER	0	.050	2.00	1.10
83/05/11	0002	WATER	4	.080		
83/05/23	0001	WATER	0	.040	1.00K	3.20
83/05/23	0001	WATER	6	.060		
83/05/23	0002	WATER	0	.060	1.00K	3.20
83/05/23	0002	WATER	4	.080		
83/06/09	0001	WATER	0	.040	1.00K	1.40
83/06/09	0001	WATER	6	.050		
83/06/09	0002	WATER	0	.050	1.00K	1.40
83/06/09	0002	WATER	4	.060		
83/06/22	0001	WATER	0	.040	1.00K	1.60
83/06/22	0001	WATER	6	.040		
83/06/22	0002	WATER	0	.060	3.00	1.70
83/06/22	0002	WATER	4	.070		
83/07/11	0001	WATER	0	.050	2.00	1.60

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DATE FROM TO	TIME OF DAY	MEDIUM	SMK OR DEPTH (FT)	00665 PHOS-TOT MG/L P	32211 CHLRPHYL A UG/L CORRECTD	00078 TRANSP SECCHI METERS
83/07/11	0001	WATER	6	.050		
83/07/11	0002	WATER	0	.050	1.00K	1.50
83/07/11	0002	WATER	4	.070		
83/07/29	0001	WATER	0	.040	1.00K	.80
83/07/29	0001	WATER	6	.040		
83/07/29	0002	WATER	0	.020	2.00	.80
83/07/29	0002	WATER	4	.020		
83/08/11	0001	WATER	0	.040	4.00	.90
83/08/11	0001	WATER	6	.050		
83/08/11	0002	WATER	0	.040	5.00	.90
83/08/11	0002	WATER	4	.050		
83/08/22	0001	WATER	0	.080	3.00	3.25
83/08/22	0001	WATER	6	.060		
83/08/22	0002	WATER	0	.070	5.00	1.20
83/08/22	0002	WATER	4	.070		
83/09/14	0001	WATER	0	.060	1.00K	1.20
83/09/14	0001	WATER	6	.050		
83/09/14	0002	WATER	0	.060	1.00K	1.10
83/09/14	0002	WATER	4	.070		
84/06/25	0001	WATER	0	.040	1.00K	1.40
84/09/27	0001	WATER	0	.060	2.00	1.40
85/05/10	1021	WATER	0	.045		2.00
85/06/13	1040	WATER	0	.030		1.60
85/07/10	0001	WATER	1.64	.030	3.00	2.70
85/07/15	1053	WATER	0	.030		3.40
85/08/08	1017	WATER	0	.030		2.10
85/09/12	1010	WATER	0	.030		1.70
86/06/26	1345	WATER	0			3.05
86/07/09	0001	WATER	1.64	.020	.50	2.40
86/07/18	1130	WATER	0			1.98
86/08/31	1300	WATER	0			1.98