

Green Lake Water Quality Assessment Memo
Appendix – Green Lake Historical Monitoring Data (www.lakesofmaine.org)

GREEN LAKE

MIDAS #: 4294

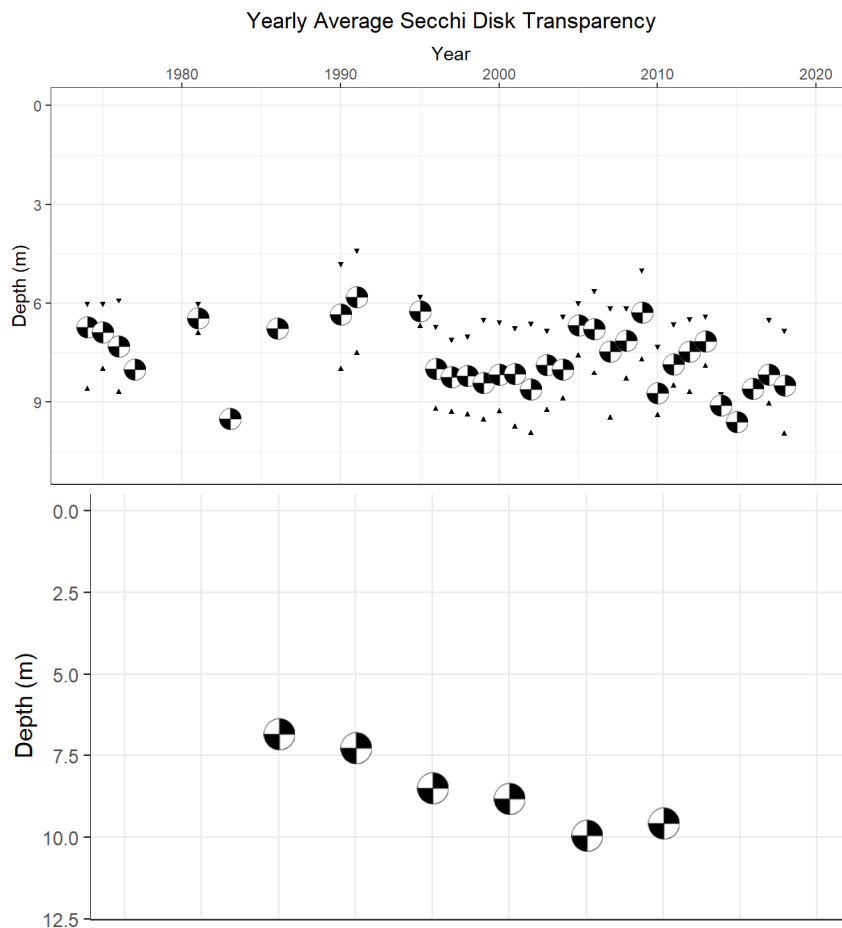
Sampling station: 1

Data period: through 2018

Town	County	Delorme Map #	True Basin	Flushing Rate	Elevation
DEDHAM	HANCOCK	24	1	0.52 flushes/yr	159 ft
Maximum Depth	Average Depth	Surface Area	Lake Volume	Drainage Area	
52 m (170 ft)	11 m (35 ft)	1,209 ha (2,989 ac)	131,000,000 m ³ (106,203 ac-ft)	55 km ² (21 mi ²)	

Secchi Disk Transparency Graphs – Station 1

Graph Legend: Secchi symbols = average Secchi Disk Transparency Values; tick marks = maximum and minimum values for each year.



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Water Chemistry and Trophic State Parameters – Station 1

Table Legend:

Color: Color (SPU), **Alk:** Alkalinity (mg/l CaCO₃), **SpCon:** Specific Conductivity (μS/cm), **pH:** pH (standard units)
TP = Total Phosphorus (μg/L) – **EC:** Epilimnion Core, **SG:** Surface Grab, **BG:** Bottom Grab, **PG:** Profile Grab
SDT = Secchi Disk Transparency (m) – **Min:** minimum value, **Avg:** average value, **Max:** maximum value, **n:** number of months with Secchi readings per year, **b:** number of times Secchi disk was observed touching the bottom of the lake per year

Chl = Chlorophyll-a (μg/L) – **Min:** minimum value, **Avg:** average value, **Max:** maximum value

Year	Color	Alk	SpCon	pH	TP- EC	TP- SG	TP- BG	TP- PG	SDT- Min	SDT- Avg	SDT- Max	SDT- n	SDT- b	Chl- Min	Chl- Avg	Chl- Max
1974						3.5			6.0	6.7	8.6	6		0.9	1.4	1.7
1975						7.4			6.0	6.9	8.0	7		0.7	1.5	2.3
1976		6.7	30		6.4		5		5.9	7.3	8.7	9		1.3	1.6	2.4
1977							4		8.0	8.0	8.0	1				
1981		3.5	37		4.0		6		6.0	6.4	6.9	2		1.7	1.7	1.7
1983		6.0			2.0		3		9.5	9.5	9.5	1		1.3	1.4	1.5
1986		3.4	21		2.0		3		6.7	6.8	6.8	1				
1990									4.8	6.3	8.0	5				
1991		7.0	28	6.9	4.0				4.4	5.8	7.5	4				
1995									5.8	6.2	6.7	4				
1996		5.0	20		4.5				6.7	8.0	9.2	4		1.3	1.6	2.0
1997									7.1	8.2	9.3	6				
1998									7.0	8.2	9.4	5				
1999									6.5	8.4	9.5	6				
2000									6.6	8.2	9.3	8				
2001		3.2	32	6.7	6.0				6.7	8.1	9.7	8		1.6	1.6	1.6
2002									6.6	8.6	9.9	5				
2003									6.8	7.9	9.2	6				

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Year	Color	Alk	SpCon	pH	TP-EC	TP-SG	TP-BG	TP-PG	SDT-Min	SDT-Avg	SDT-Max	SDT-n	SDT-b	Chl-Min	Chl-Avg	Chl-Max
2004						5.0			6.4	8.0	8.9	6	1			
2005									6.0	6.6	7.6	6				
2006									5.6	6.8	8.1	5				
2007						3.0			6.1	7.4	9.5	5				
2008						4.0			6.1	7.1	8.3	5				
2009									5.0	6.3	7.7	5				
2010						4.0			7.3	8.7	9.4	6				
2011									6.6	7.8	8.5	4				
2012						3.5			6.5	7.5	8.7	3				
2013									6.4	7.2	7.9	4				
2014									8.8	9.1	9.3	3				
2015	7	5.0	28	6.9	2.0				9.5	9.6	9.7	1		3.4	3.4	3.4
2016	12	6.0	31	6.8					8.6	8.6	8.6	1		1.6	1.6	1.6
2017									6.5	8.2	9.1	6				
2018									6.8	8.5	9.9	7				

Lake Chemistry and Trophic Summary Data - Overall Summary Values:

Avg Color	Avg Alk	Avg SpCon	pH	Avg TP-EC	Avg TP-SG	Avg TP-BG	Avg TP-PG	SDT-Min	SDT-Avg	SDT-Max	SDT-n	Chl-Min	Chl-Avg	Chl-Max
9.5	5.1	28	6.8	3.9	4.3	4.2		4.4	7.7	9.9	4.7	0.7	1.8	3.4

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Temperature and Dissolved Oxygen Profiles – Station 1

Late summer only; limited to eight most recent profiles

Units: Temperature (TEMP) = °C; Dissolved Oxygen (DO) = mg/L

	2015-08-17		2016-09-01		2017-08-01		2017-08-15		2017-08-30		2018-08-08		2018-08-24		2018-09-05	
Depth (m)	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO
0	26.4	8.5	23.4	8.6	23.4	8.5	23.3	7.3	21.2	8.4	26.9	8.1	23.9	8.3	23.9	7.9
1	25.2	8.5	23.4	8.6	23.0	8.6	23.2	6.4	21.2	8.4	26.8	8.2	23.7	8.3	23.8	7.9
2	24.6	8.6	23.3	8.6	22.9	8.7	23.2	6.7	21.2	8.4	26.6	8.2	23.4	8.3	23.6	7.9
3	23.8	8.7	23.1	8.6	22.9	8.6	23.1	6.3	21.2	8.3	26.5	8.2	23.3	8.3	23.6	7.9
4	23.5	8.6	23.9	8.6	22.8	8.5	23.1	6.6	21.2	8.1	25.3	8.3	23.2	8.2	23.5	7.9
5	23.2	8.5	22.7	8.6	22.8	8.5	23.0	6.3	21.1	7.9	24.5	8.1	23.2	8.2	23.5	7.9
6	22.7	8.3	22.5	8.5	22.5	8.3	22.9	6.4	21.1	7.6	23.6	7.9	23.1	8.2	22.8	7.5
7	22.1	8.0	22.5	8.5	19.6	7.3	22.8	6.1	21.0	7.4	21.7	7.4	21.7	6.9	22.8	7.5
8	19.7	7.1	22.4	8.4	17.2	7.0	22.5	6.1	20.9	6.8	18.4	6.9	19.6	6.2	20.1	6.0
9	18.0	6.6	21.2	6.6	16.1	6.8	20.9	5.6	19.3	5.5	16.6	6.8	16.9	5.7	18.0	5.3
10	16.9	6.7	18.8	6.1	14.7	6.8	19.2	5.4	16.7	4.8	15.4	6.8	15.7	5.8	16.0	5.4
11	15.0	6.9	17.8	5.8	13.3	7.1	17.7	5.2	13.9	5.0	12.9	7.7	14.4	6.1	13.8	6.0
12	12.8	7.9	17.2	5.8	10.2	8.7	11.8	6.0	11.4	6.0	11.0	8.8	11.6	7.6	11.2	7.6
13	10.3	8.7	13.6	7.0	8.4	9.0	11.5	6.0	9.8	6.7	9.4	9.5	9.1	9.2	9.4	8.6
14	8.3	9.4	10.6	8.2	7.6	9.2	9.0	6.8	8.4	7.1	7.9	10.2	7.9	9.6	8.0	9.2
15	7.5	9.7	9.6	8.7	7.3	9.1	8.4	6.7	7.6	7.2	7.3	10.2	7.1	10.0	7.2	9.7
16																
17	6.6	10.0	9.2	9.1												

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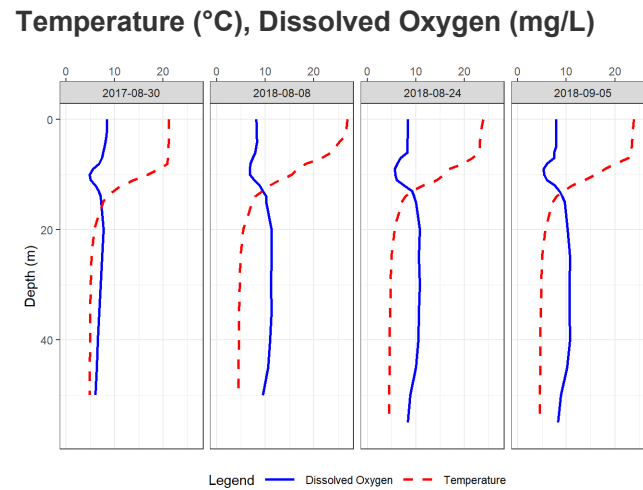
Depth (m)	2015-08-17		2016-09-01		2017-08-01		2017-08-15		2017-08-30		2018-08-08		2018-08-24		2018-09-05	
	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO
18																
19	6.0	10.1	8.2	9.4												
20					5.8	9.0	8.0	6.5	5.7	7.7	5.5	11.3	5.6	10.8	5.6	10.3
21	5.6	10.4	7.5	9.6												
22																
23	5.4	10.4	6.9	9.9												
24																
25	5.2	10.4	6.7	10.1	5.2	9.0	6.6	6.8	5.2	7.4	4.9	11.3	5.0	10.6	5.0	10.7
26																
27																
28																
29																
30	5.0	10.3	6.1	10.2	5.0	8.8	5.9	7.0	5.0	7.1	4.8	11.2	4.8	10.8	4.8	10.6
31																
32																
33																
34																
35	4.8	10.2	5.7	10.0	4.9	8.6	5.7	6.8	4.9	6.8	4.6	11.3	4.7	10.6	4.7	10.6
36																
37																
38																
39																
40	4.8	10.0	5.6	10.1	4.8	8.4	5.5	6.7	4.9	6.5	4.6	11.0	4.6	10.5	4.6	10.7
41																

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	2015-08-17		2016-09-01		2017-08-01		2017-08-15		2017-08-30		2018-08-08		2018-08-24		2018-09-05	
Depth (m)	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO
42																
43																
44																
45	4.7	9.5	5.6	9.9	4.8	7.9	5.1	7.2	4.8	6.3	4.5	10.6	4.6	10.0	4.6	10.2
46																
47																
48																
49																
50	4.7	9.1	5.5	9.5	4.8	7.0	5.0	7.0	4.8	6.0	4.5	9.5	4.5	8.8	4.5	8.9
51																
52																
53																
54																
55			5.4	8.9									4.5	8.3	4.5	8.3

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Most recent temperature and dissolved oxygen profile plots



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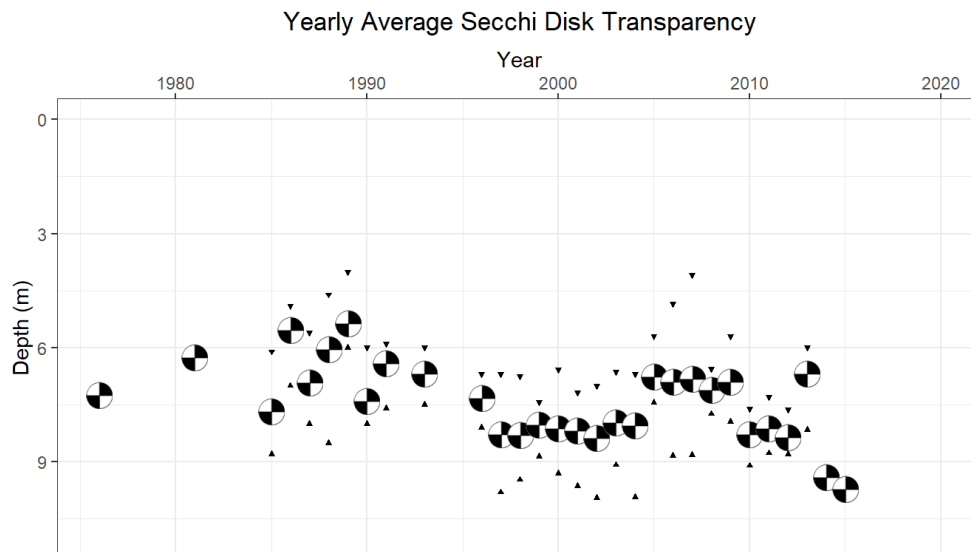
Sampling station: 2

Data period: through 2018

Town	County	Delorme Map #	True Basin	Flushing Rate	Elevation
DEDHAM	HANCOCK	24	1	0.52 flushes/yr	159 ft
Maximum Depth	Average Depth	Surface Area	Lake Volume	Drainage Area	
52 m (170 ft)	11 m (35 ft)	1,209 ha (2,989 ac)	131,000,000 m ³ (106,203 ac-ft)	55 km ² (21 mi ²)	

Secchi Disk Transparency Graphs – Station 2

Graph Legend: Secchi symbols = average Secchi Disk Transparency Values; tick marks = maximum and minimum values for each year.



[1] "No 2018 Secchi Disk Transparency Data"

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Appendix – Green Lake Historical Monitoring Data (www.lakesofmaine.org)

Water Chemistry and Trophic State Parameters – Station 2

Table Legend:

Color: Color (SPU), **Alk:** Alkalinity (mg/l CaCO₃), **SpCon:** Specific Conductivity (μS/cm), **pH:** pH (standard units)
TP = Total Phosphorus (μg/L) – **EC:** Epilimnion Core, **SG:** Surface Grab, **BG:** Bottom Grab, **PG:** Profile Grab
SDT = Secchi Disk Transparency (m) – **Min:** minimum value, **Avg:** average value, **Max:** maximum value, **n:** number of months with Secchi readings per year, **b:** number of times Secchi disk was observed touching the bottom of the lake per year

Chl = Chlorophyll-a (μg/L) – **Min:** minimum value, **Avg:** average value, **Max:** maximum value

Year	Color	Alk	SpCon	pH	TP- EC	TP- SG	TP- BG	TP- PG	SDT- EC	SDT- SG	SDT- BG	SDT- PG	SDT- n	Chl- Min	Chl- Avg	Chl- Max
1976		7.0	29		13				7.0	7.2	7.5	1		2.2	2.2	2.2
1981									6.0	6.2	6.5	2				
1985									6.1	7.7	8.8	4				
1986		3.3	20		1		5		4.9	5.5	7.0	5				
1987									5.6	6.9	8.0	5				
1988									4.6	6.0	8.5	5				
1989									4.0	5.4	6.0	5				
1990									6.0	7.4	8.0	2				
1991		5.0	27	6.6	4				5.9	6.4	7.6	2		1.5	1.5	1.5
1993									6.0	6.7	7.5	5				
1996									6.7	7.3	8.1	4				
1997									6.7	8.3	9.8	6				
1998									6.8	8.3	9.5	5				
1999		5.0	30		5				7.4	8.0	8.9	6		2.6	2.6	2.6

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Year	Color	Alk	SpCon	pH	TP-	TP-	TP-	TP-	SDT-	SDT-	SDT-	SDT-	SDT-	Chl-	Chl-	Chl-
2000									6.6	8.1	9.3	7				
2001									7.2	8.2	9.6	6				
2002									7.0	8.4	9.9	8				
2003									6.6	8.0	9.1	6				
2004									6.7	8.1	9.9	6				
2005									5.7	6.8	7.4	6				
2006									4.8	6.9	8.8	8				
2007									4.1	6.8	8.8	5				
2008									6.5	7.1	7.7	5				
2009									5.7	6.9	7.9	4				
2010						5			7.6	8.3	9.1	4				
2011									7.3	8.1	8.8	3	4			
2012									7.6	8.4	8.8	3				
2013									6.0	6.7	8.2	2				
2014									9.2	9.4	9.7	2				
2015	8	6.0	28	6.9	3				9.5	9.7	10.0	1		1.0	1.0	1.0

Lake Chemistry and Trophic Summary Data - Overall Summary Values:

Avg Color	Avg Alk	Avg SpCon	pH	Avg TP-EC	Avg TP-SG	Avg TP-BG	Avg TP-PG	SDT-Min	SDT-Avg	SDT-Max	SDT-n	Chl-Min	Chl-Avg	Chl-Max
8	5.3	27	6.7	5.2	5	5		4	7.4	10	4.4	1	1.8	2.6

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Temperature and Dissolved Oxygen Profiles – Station 2

Late summer only; limited to eight most recent profiles

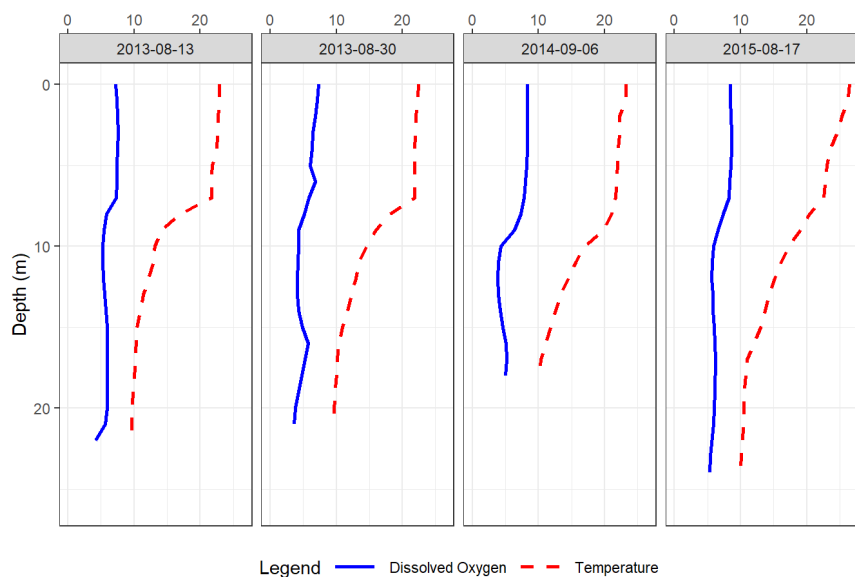
Units: Temperature (TEMP) = °C; Dissolved Oxygen (DO) = mg/L

	2011-08-02		2011-08-22		2012-08-10		2012-08-29		2013-08-13		2013-08-30		2014-09-06		2015-08-17	
Depth (m)	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO
0	24	8.5	22	8.2	25	7.3	23	7.8	22.9	7.2	22.4	7.3	23	8.3	26	8.4
1	24	8.5	22	8.1	25	7.5	23	7.9	22.9	7.4	22.3	7.1	23	8.3	26	8.4
2	24	8.7	22	8.1	24	7.5	23	7.8	22.7	7.5	22.0	6.8	22	8.3	25	8.5
3	24	8.5	22	8.2	24	7.5	23	7.8	22.6	7.6	21.9	6.4	22	8.3	25	8.6
4	24	8.5	22	8.1	24	7.5	23	7.9	22.5	7.5	21.8	6.3	22	8.3	24	8.6
5	23	8.4	22	8.1	24	7.5	23	7.9	21.8	7.4	21.8	6.1	22	8.2	23	8.5
6	22	8.2	22	8.0	23	7.1	23	7.8	21.7	7.4	21.8	6.8	22	8.0	23	8.3
7	21	7.8	22	8.1	21	6.4	23	7.8	21.7	7.3	21.8	5.9	22	7.8	23	8.2
8	17	7.0	22	8.1	17	5.6	23	7.9	17.0	5.8	18.1	5.2	21	7.3	20	7.4
9	16	7.0	18	5.6	15	5.5	18	5.0	14.1	5.4	16.0	4.3	20	6.4	19	6.6
10	15	6.7	16	5.1	14	5.3	15	4.5	13.1	5.2	14.5	4.3	17	4.3	17	5.9
11	14	6.6	15	4.9	14	5.1	14	4.3	12.9	5.2	13.5	4.2	16	3.9	16	5.7
12	14	6.7	14	4.8	13	5.1	14	4.4	12.2	5.3	13.0	4.1	15	3.8	15	5.6
13	13	6.8	13	4.9	13	5.2	13	4.3	11.4	5.5	12.3	4.1	13	3.9	14	5.8
14	12	7.1	13	5.1	12	5.2	12	4.5	11.0	5.7	11.7	4.3	13	4.2	14	5.8
15	11	7.4	12	5.4	12	5.4	12	4.8	10.4	5.9	10.9	4.9	12	4.6	13	6.0
16	11	7.4	11	5.9	11	5.8	12	5.1			10.3	5.8	11	5.1		
17	11	7.5	11	5.8	11	5.7	11	5.2					10	5.2	11	6.2

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	2011-08-02		2011-08-22		2012-08-10		2012-08-29		2013-08-13		2013-08-30		2014-09-06		2015-08-17	
Depth (m)	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO
18	10	7.4	11	5.8	11	5.7	11	5.1					10	5.0		
19	10	7.3	10	5.6	11	5.7	11	5.0							11	6.1
20	10	7.2	10	5.5	11	5.5	11	4.8	9.7	5.9	9.7	3.8				
21	10	7.0	10	5.5	10	5.2	11	4.7	9.6	5.6	9.7	3.6			10	5.9
22	10	6.8			10	4.9	10	1.0	9.5	4.2						
23	10	1.2													10	5.4
24															10	5.3

Most recent temperature and dissolved oxygen profile plots



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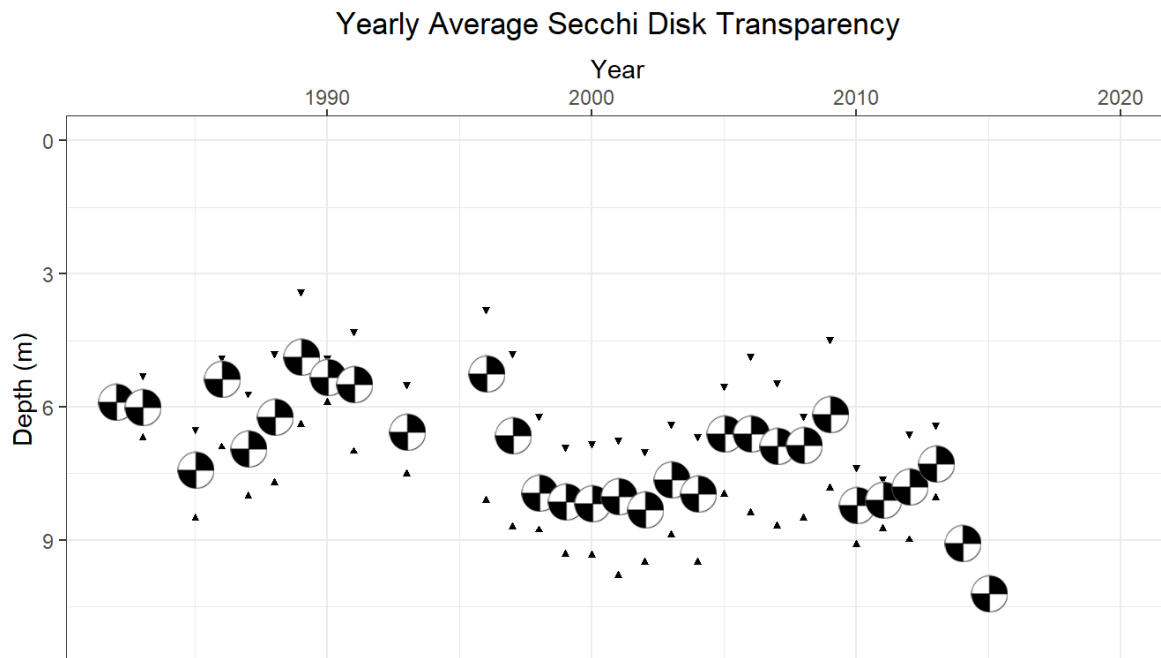
Sampling station: 3

Data period: through 2018

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Chl = Chlorophyll-a (μg/L) – **Min:** minimum value, **Avg:** average value, **Max:** maximum value

Year	Color	Alk	SpCon	pH	TP- EC	TP- SG	TP- BG	TP- PG	SDT- Min	SDT- Avg	SDT- Max	SDT- n	SDT- b	Chl- Min	Chl- Avg	Chl- Max
1982									5.6	5.9	6.1	3				
1983									5.3	6.0	6.7	6				
1985									6.5	7.4	8.5	4				
1986									4.9	5.4	6.9	5				
1987									5.7	6.9	8.0	4				
1988									4.8	6.2	7.7	5				
1989									3.4	4.9	6.4	5				
1990									4.9	5.3	5.9	3				
1991									4.3	5.5	7.0	5				
1993									5.5	6.6	7.5	5				
1996									3.8	5.2	8.1	3				
1997									4.8	6.6	8.7	5				
1998									6.2	7.9	8.8	5				
1999		5.0	30		4		9		6.9	8.1	9.3	6		2.7	2.7	2.7
2000									6.8	8.2	9.3	9				
2001									6.7	8.0	9.8	6				

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Year	Color	Alk	SpCon	pH	TP-EC	TP-SG	TP-BG	TP-PG	SDT-Min	SDT-Avg	SDT-Max	SDT-n	SDT-b	Chl-Min	Chl-Avg	Chl-Max
2002									7.0	8.3	9.5	5				
2003						3.7			6.4	7.6	8.9	7				
2004									6.7	8.0	9.5	7				
2005						4.7			5.5	6.6	8.0	6				
2006	22	4.2	29	6.8		4.6			4.8	6.6	8.4	7				
2007						3.5			5.4	6.9	8.7	5				
2008	12	4.1	28	6.7		3.0			6.2	6.8	8.5	4				
2009						4.2			4.5	6.2	7.8	4				
2010						4.0			7.4	8.2	9.1	6				
2011									7.6	8.1	8.7	3	2			
2012									6.6	7.8	9.0	3				
2013									6.4	7.3	8.1	3				
2014									8.8	9.1	9.2	2	2			
2015	8	6.0	28	6.9	5		6		10.2	10.2	10.2	1		3.7	3.7	3.7

Lake Chemistry and Trophic Summary Data - Overall Summary Values:

Avg Color	Avg Alk	Avg SpCon	pH	Avg TP-EC	Avg TP-SG	Avg TP-BG	Avg TP-PG	SDT-Min	SDT-Avg	SDT-Max	SDT-n	Chl-Min	Chl-Avg	Chl-Max
14	4.8	29	6.8	4.5	4	7.5		3.4	7.1	10	4.7	2.7	3.2	3.7

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Temperature and Dissolved Oxygen Profiles – Station 3

Late summer only; limited to eight most recent profiles

Units: Temperature (TEMP) = °C; Dissolved Oxygen (DO) = mg/L

	2011-08-02		2011-08-22		2012-08-10		2012-08-29		2013-08-13		2013-08-30		2014-09-06		2015-08-17	
Depth (m)	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO
0	24	8.1	22	8.1	25	7.8	24	7.7	22	8.8	22	8.9	23	8.2	27	8.4
1	24	8.5	22	8.0	25	7.8	23	7.8	22	8.8	22	8.7	23	8.3	26	8.4
2	24	8.5	22	8.0	25	7.8	23	7.8	22	8.6	22	9.5	22	8.3	25	8.5
3	24	8.5	22	8.0	25	7.8	23	7.8	22	8.7	22	9.5	22	8.2	24	8.6
4	24	8.5	22	8.0	24	7.7	23	7.7	22	8.7	22	9.5	22	8.2	24	8.6
5	24	8.5	22	8.0	24	7.6	23	7.8	22	8.6	22	9.5	22	8.2	23	8.4
6	23	8.4	22	8.0	23	7.3	23	7.8	21	8.6	22	9.5	22	8.1	23	8.3
7	20	7.9	22	8.0	20	6.6	23	7.8	20	8.0	22	9.4	22	8.1	22	8.1
8	17	7.4	20	6.5	17	6.0	23	7.7	17	6.8	17	7.0	21	7.3	21	7.2
9	16	6.9	18	5.6	15	5.5	17	4.8	15	6.3	15	6.1	19	6.0	18	6.2
10	15	6.6	16	4.7	14	5.0	16	4.4	14	6.1	14	5.7	17	4.4	17	5.9
11	14	6.4	15	4.6	14	5.0	15	4.1	14	6.1	13	5.3	16	3.8	16	5.3
12	14	6.3	14	4.4	13	4.7	14	3.9	13	6.0	13	5.2	15	3.2	15	5.0
13	13	5.4	14	3.7	13	4.0	13	2.8	12	5.0	12	4.0	13	1.5	14	4.1
14	12	4.9	12	2.4	12	3.6	12	2.2	11	4.2	12	3.2	12	0.6	14	3.3

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	2011-08-02		2011-08-22		2012-08-10		2012-08-29		2013-08-13		2013-08-30		2014-09-06		2015-08-17	
Depth (m)	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO	TEMP	DO
15	12	4.6	12	2.2	12	3.4	12	2.0	11	3.8	11	2.5	12	0.3	13	2.5
16	12	4.5			12	3.4	12	1.8			11	2.4	12	0.2	13	2.2
17	12	4.2			12	3.4	12	1.6					12	0.1	13	1.9
18	11	0.4			12	3.3			11	3.2			11	0.0	13	1.8
19					12	3.2										
20			12	2.1	12	2.8										

Most recent temperature and dissolved oxygen profile plots

Temperature (°C), Dissolved Oxygen (mg/L)

