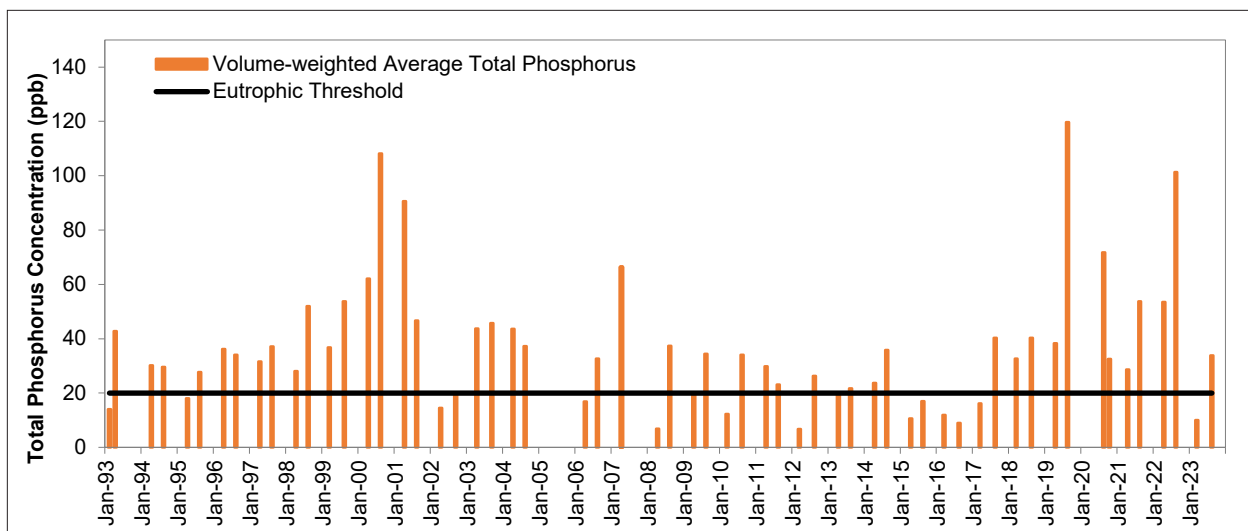
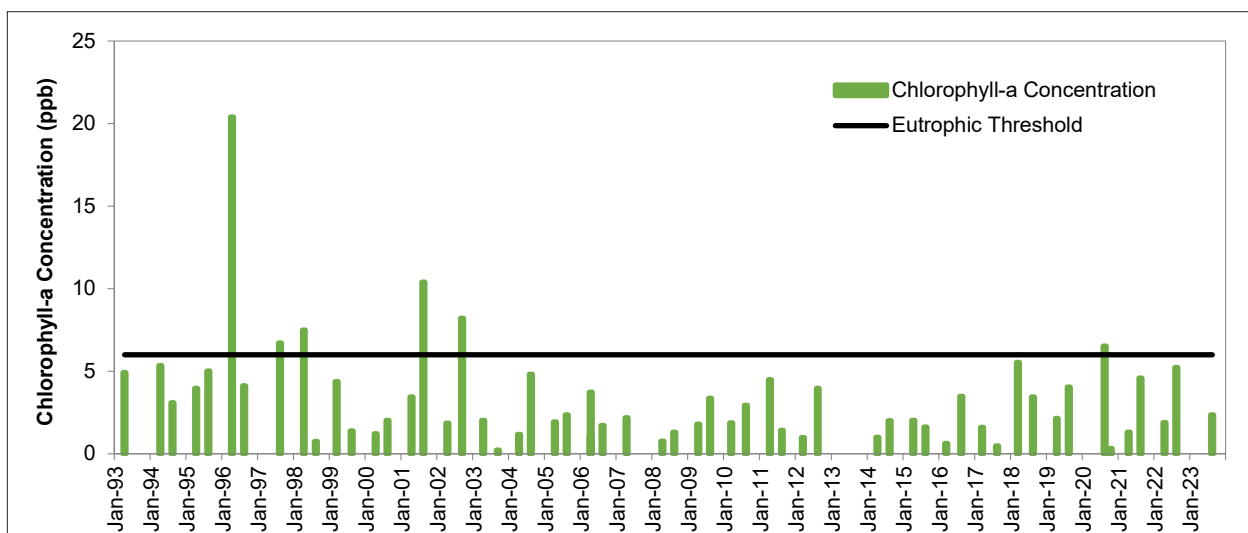
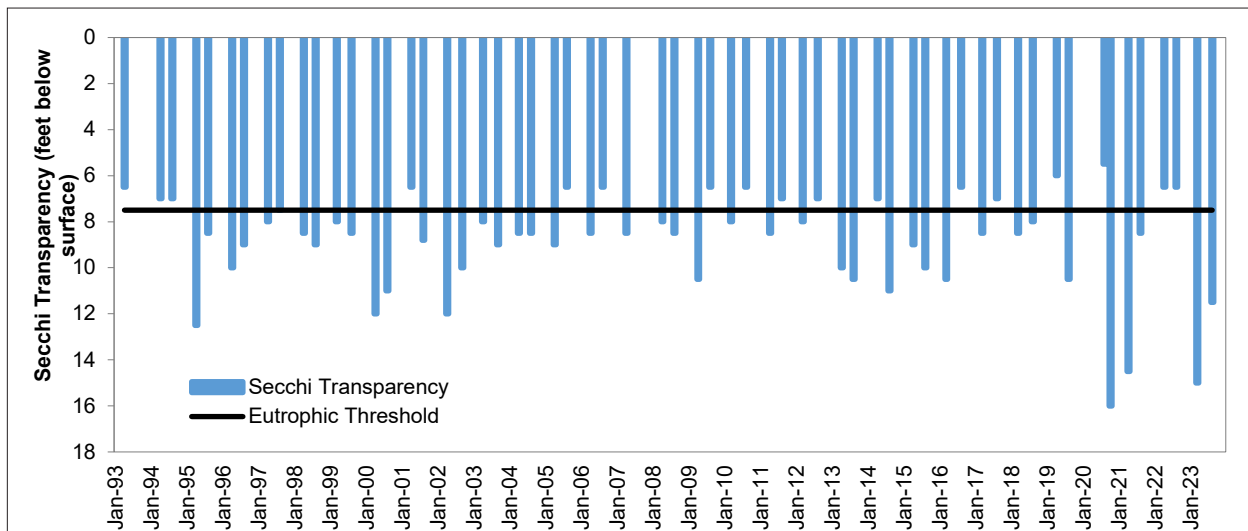




Volume-weighted average total phosphorus concentrations, 1993 - 2023.



Average chlorophyll-a concentrations, 1993 - 2023.



Average Secchi transparency measurements, 1993 - 2023.

TABLE 1
LONG IONIA LAKE 2014 - 2023 DEEP BASIN WATER QUALITY DATA

Date	Sample Depth (feet)	Temperature (°F)	Dissolved Oxygen (mg/L)¹	Total Phosphorus (µg/L)²
29-Apr-14	1	52	10.3	33
29-Apr-14	27	50	10.5	11
29-Apr-14	54	43	4.8	14
7-Aug-14	1	78	9.2	10
7-Aug-14	25	59	1.2	34
7-Aug-14	50	51	0.7	259
22-Apr-15	1	50	10.1	12
22-Apr-15	27	50	10.2	9
22-Apr-15	54	46	7.7	8
24-Aug-15	1	74	7.2	10
24-Aug-15	25	74	3.0	20
24-Aug-15	50	49	0.5	59
23-Mar-16	1	43	12.6	15
23-Mar-16	27	43	12.8	8
23-Mar-16	54	42	12.6	7
9-Aug-16	1	83	8.6	6
9-Aug-16	26	54	0.7	8
9-Aug-16	52	47	1.2	39
29-Mar-17	1	44	10.6	18
29-Mar-17	28	42	11.1	14
29-Mar-17	56	41	11.1	13
10-Aug-17	1	76	9.0	18
10-Aug-17	27	62	0.7	42
10-Aug-17	54	53	0.0	216

¹ mg/L = milligrams per liter = parts per million.

² µg/L = micrograms per liter = parts per billion.

Date	Sample Depth (feet)	Temperature (°F)	Dissolved Oxygen (mg/L) ¹	Total Phosphorus (µg/L) ²
14-Mar-18	1	37	11.0	42
14-Mar-18	28	37	10.9	20
14-Mar-18	56	38	11.5	22
27-Aug-18	1	77	8.8	9
27-Aug-18	28	51	1.5	35
27-Aug-18	56	44	0.8	326
8-Apr-19	1	50	10.0	37
8-Apr-19	28	44	8.5	40
8-Apr-19	56	43	8.8	40
19-Aug-19	1	76	8.7	79
19-Aug-19	27	57	0.5	131
19-Aug-19	55	51	0.2	397
8-Apr-19	1	50	10.0	37
8-Apr-19	28	44	8.5	40
8-Apr-19	56	43	8.8	40
19-Aug-19	1	76	8.7	79
19-Aug-19	27	57	0.5	131
19-Aug-19	55	51	0.2	397
27-Aug-20	1	79	8.9	33
27-Aug-20	27	57	0.5	64
27-Aug-20	55	51	0.0	433
28-Oct-20	1	49	9.0	31
28-Oct-20	28	49	9.0	36
28-Oct-20	56	48	8.8	27
7-Apr-21	1	54	12.1	28
7-Apr-21	29	47	11.2	23
7-Apr-21	57	46	10.6	63

1 mg/L = milligrams per liter = parts per million.

2 µg/L = micrograms per liter = parts per billion.

Date	Sample Depth (feet)	Temperature (°F)	Dissolved Oxygen (mg/L) ¹	Total Phosphorus (µg/L) ²
23-Aug-21	1	83	8.7	19
23-Aug-21	27	59	1.0	50
23-Aug-21	55	52	0.2	360
1-Apr-22	1	40	11.5	57
1-Apr-22	27	40	11.8	48
1-Apr-22	54	40	11.9	54
16-Aug-22	1	76	8.5	49
16-Aug-22	27	54	2.0	98
16-Aug-22	54	50	0.1	551
30-Mar-23	1	41.4	11.8	<10
30-Mar-23	28	41.3	11.7	<10
30-Mar-23	56	41.2	11.5	<10
7-Aug-23	1	75.8	7.9	<10
7-Aug-23	27	55.8	0.2	12
7-Aug-23	54	49.6	0.0	345

¹ mg/L = milligrams per liter = parts per million.

² µg/L = micrograms per liter = parts per billion.