



Graphs for the 2013 Sampling Season

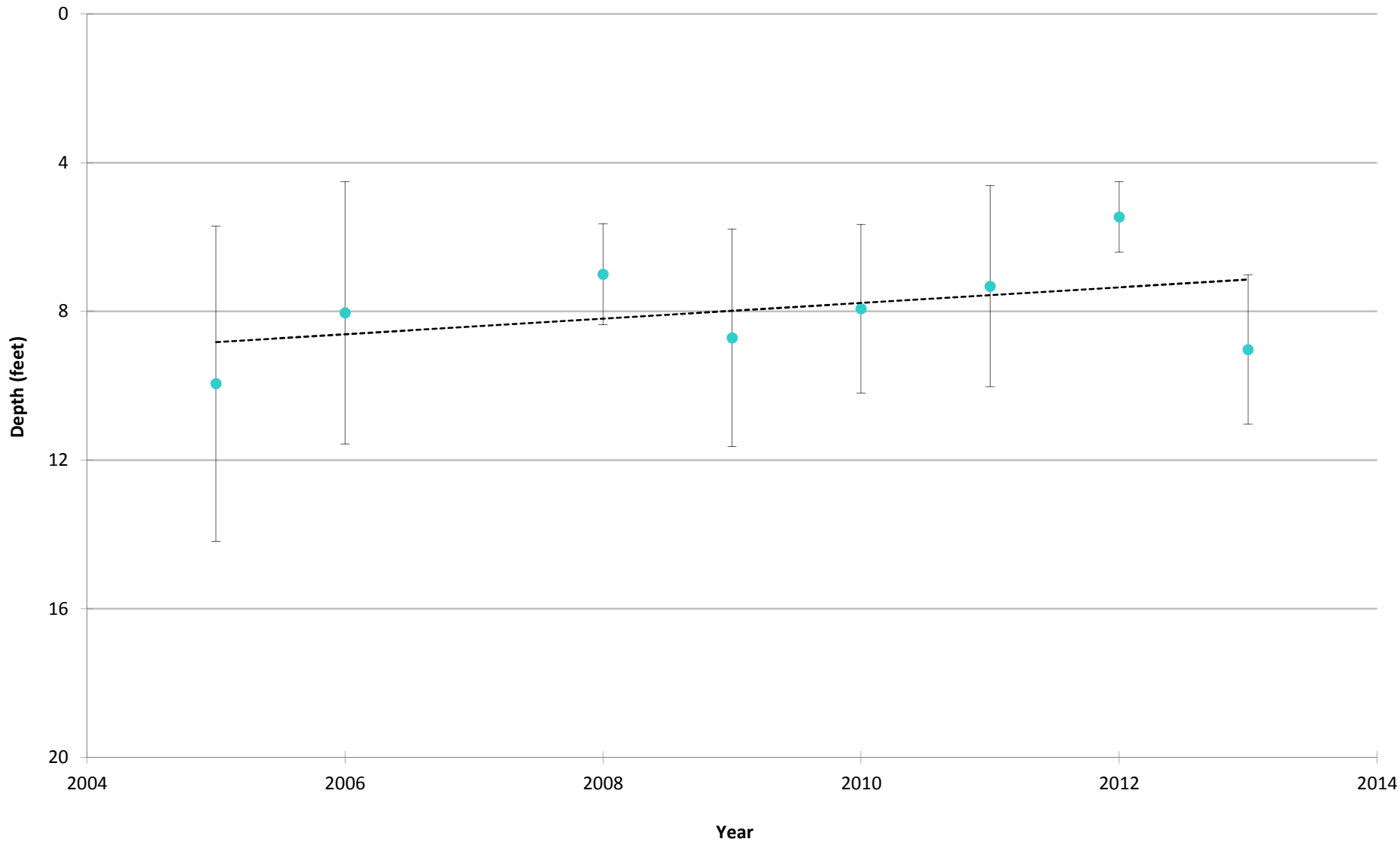
- Secchi Disk Transparency
- Summer Phosphorus
- Chlorophyll-a
- Dissolved Oxygen/Temperature

Please Note!

- Graphs are only made for lakes that are enrolled for the parameters above, have paid, and have collected enough data during the 2013 field season.
- 8 Secchi disk measurements and 3 chlorophyll measurements are needed to properly summarize these parameters.
- Several years of data are required before a graph is made for a lake. If this is the first or second year you have been enrolled, you will not have a graph.
- The exception to this is dissolved oxygen. All participants in the dissolved oxygen parameter will get dissolved oxygen/temperature graphs.
- If you believe anything to be in error or are expecting graphs for a parameter and do not receive them, please email Paul Steen, psteen@hrwc.org. Please no phone calls due to high traffic concerns, and please do not email or call Jean Roth on this issue.

COOPERATIVE LAKES MONITORING PROGRAM
SUMMER MEAN TRANSPARENCY

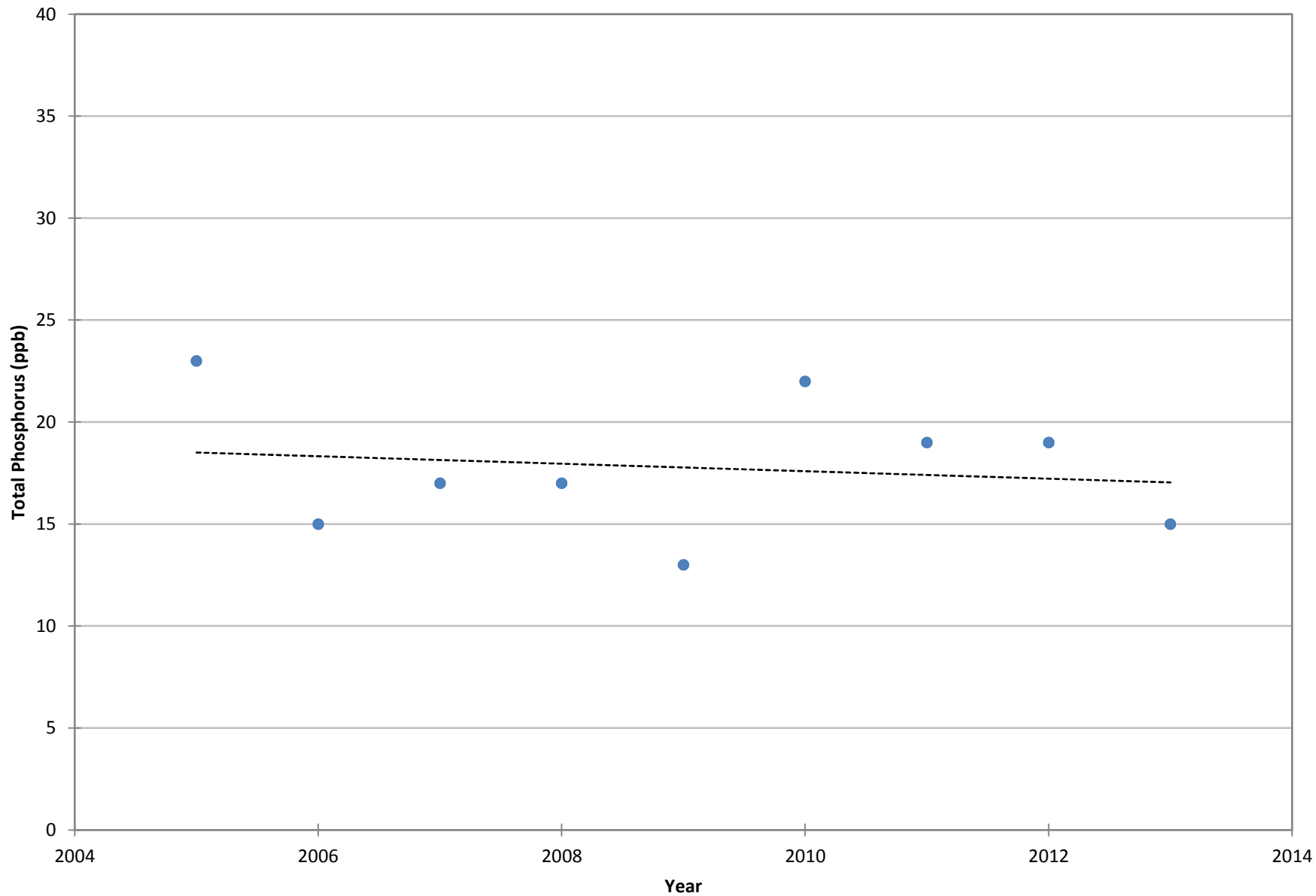
Stony Lake (Oceana Co.), 640049



Vertical bars indicate standard deviation

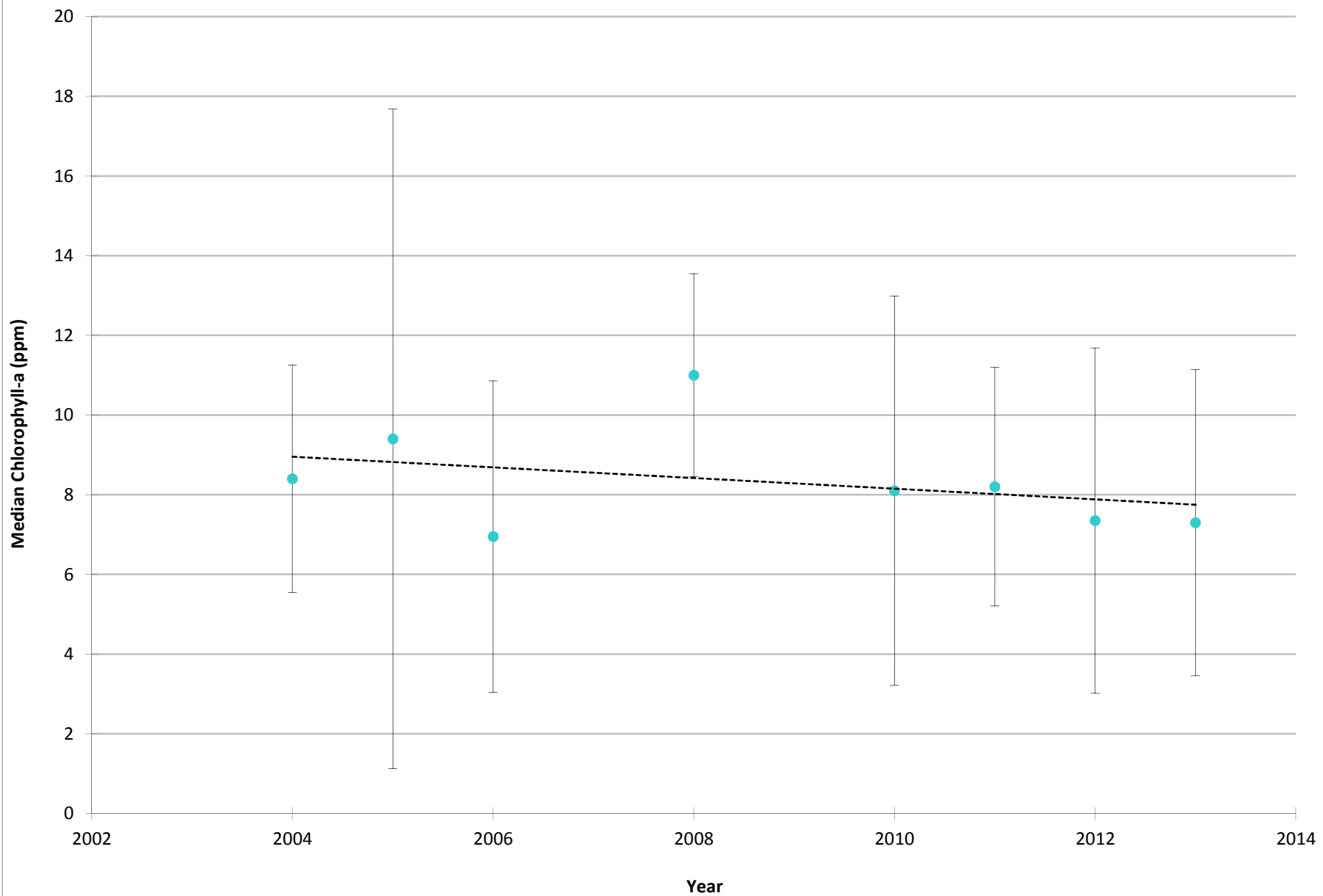
COOPERATIVE LAKES MONITORING PROGRAM
SUMMER TOTAL PHOSPHORUS

Stony Lake (Oceana Co.), 640049



COOPERATIVE LAKES MONITORING PROGRAM
SUMMER MEDIAN CHLOROPHYLL-A

Stony Lake (Oceana Co.), 640049



Vertical bars indicate standard deviation

Time: Stony
 County: Oceana
 Date: May 15, 2013
 Time: 15:45

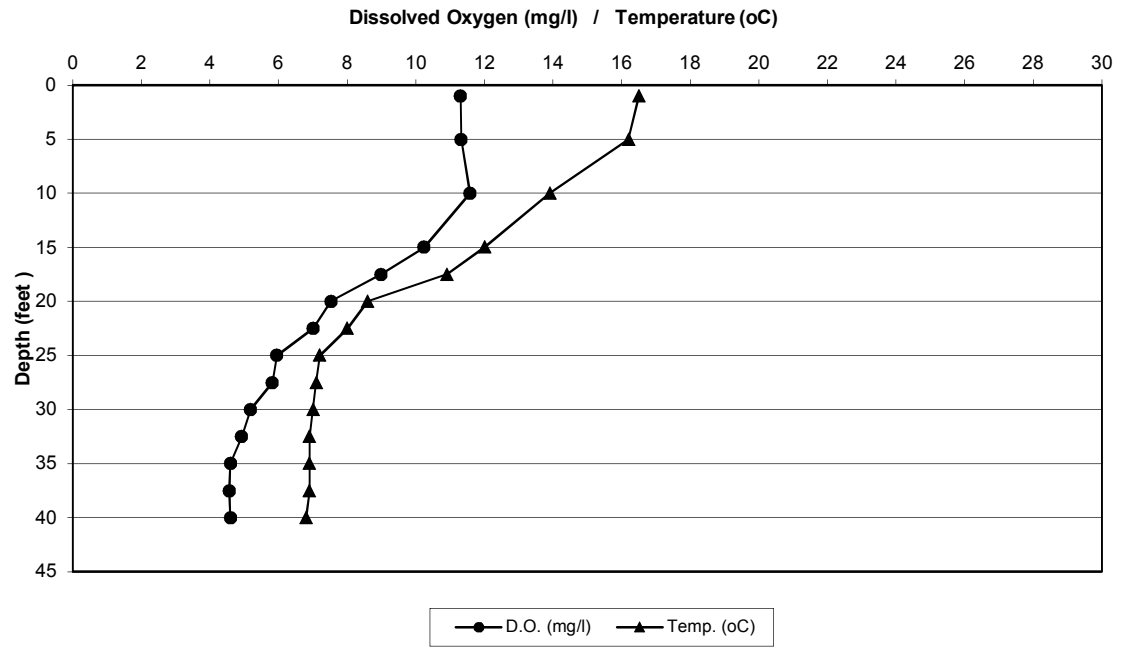
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640049

May 15, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	16.5	11.3
5	16.2	11.32
10	13.9	11.58
15	12	10.24
17.5	10.9	8.98
20	8.6	7.53
22.5	8	7
25	7.2	5.95
27.5	7.1	5.82
30	7	5.18
32.5	6.9	4.92
35	6.9	4.6
37.5	6.9	4.56
40	6.8	4.6



Time: Stony
 County: Oceana
 Date: May 26, 2013
 Time: 15:15

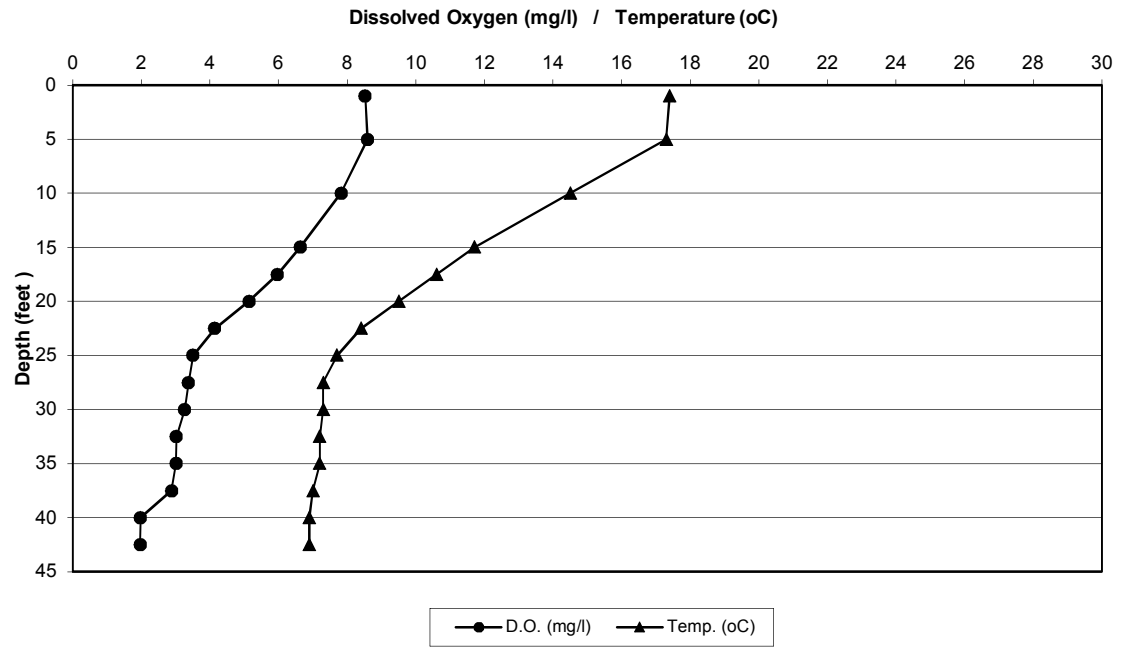
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640049

May 26, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	17.4	8.52
5	17.3	8.59
10	14.5	7.82
15	11.7	6.63
17.5	10.6	5.97
20	9.5	5.14
22.5	8.4	4.14
25	7.7	3.5
27.5	7.3	3.37
30	7.3	3.26
32.5	7.2	3.02
35	7.2	3.01
37.5	7	2.88
40	6.9	1.97
42.5	6.9	1.96



Time: Stony
 County: Oceana
 Date: June 3, 2013
 Time: 14:10

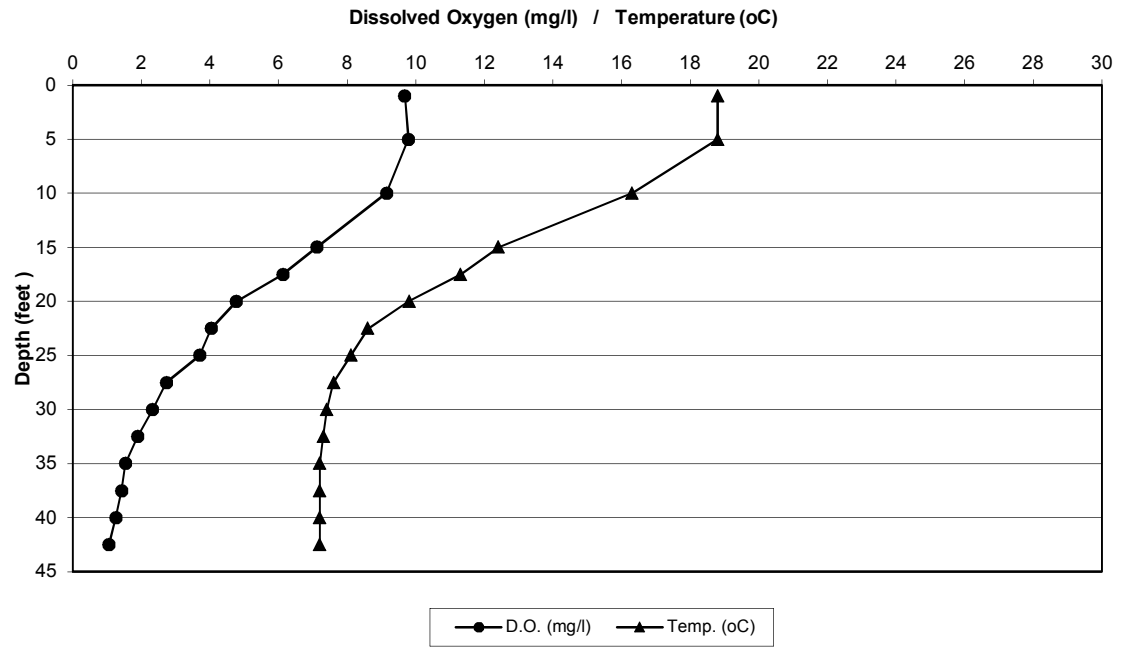
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640049

June 3, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	18.8	9.68
5	18.8	9.78
10	16.3	9.15
15	12.4	7.11
17.5	11.3	6.13
20	9.8	4.77
22.5	8.6	4.03
25	8.1	3.7
27.5	7.6	2.73
30	7.4	2.33
32.5	7.3	1.89
35	7.2	1.54
37.5	7.2	1.42
40	7.2	1.25
42.5	7.2	1.06



640049 Stony
 County: Oceana
 Date: June 15, 2013
 Time: 14:47

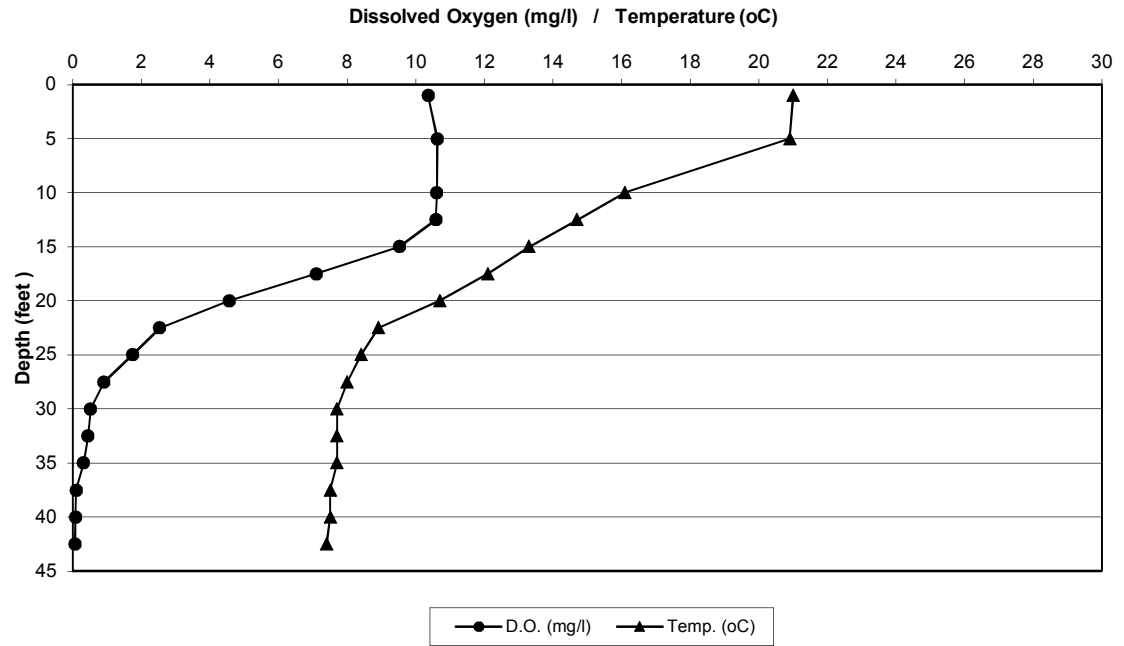
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640049

June 15, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	21	10.36
5	20.9	10.62
10	16.1	10.61
12.5	14.7	10.59
15	13.3	9.52
17.5	12.1	7.1
20	10.7	4.57
22.5	8.9	2.53
25	8.4	1.74
27.5	8	0.91
30	7.7	0.52
32.5	7.7	0.44
35	7.7	0.31
37.5	7.5	0.1
40	7.5	0.08
42.5	7.4	0.07

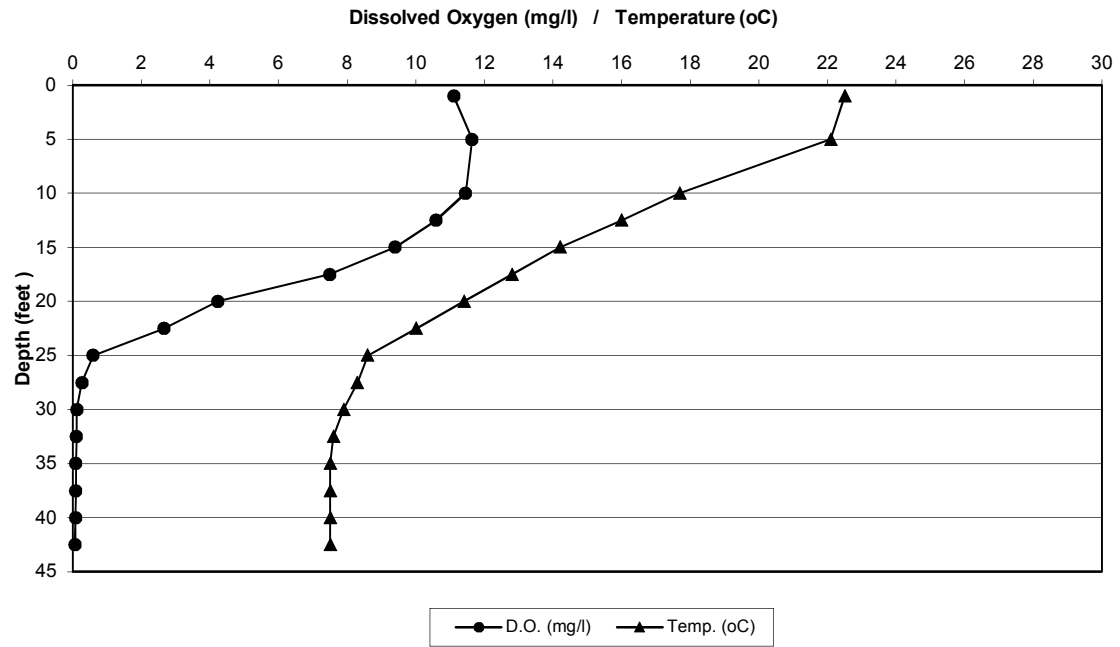


Time: Stony
 County: Oceana
 Date: June 20, 2013
 Time: 15:05

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 June 20, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	22.5	11.11
5	22.1	11.64
10	17.7	11.45
12.5	16	10.58
15	14.2	9.39
17.5	12.8	7.49
20	11.4	4.23
22.5	10	2.66
25	8.6	0.59
27.5	8.3	0.27
30	7.9	0.12
32.5	7.6	0.11
35	7.5	0.09
37.5	7.5	0.09
40	7.5	0.08
42.5	7.5	0.07

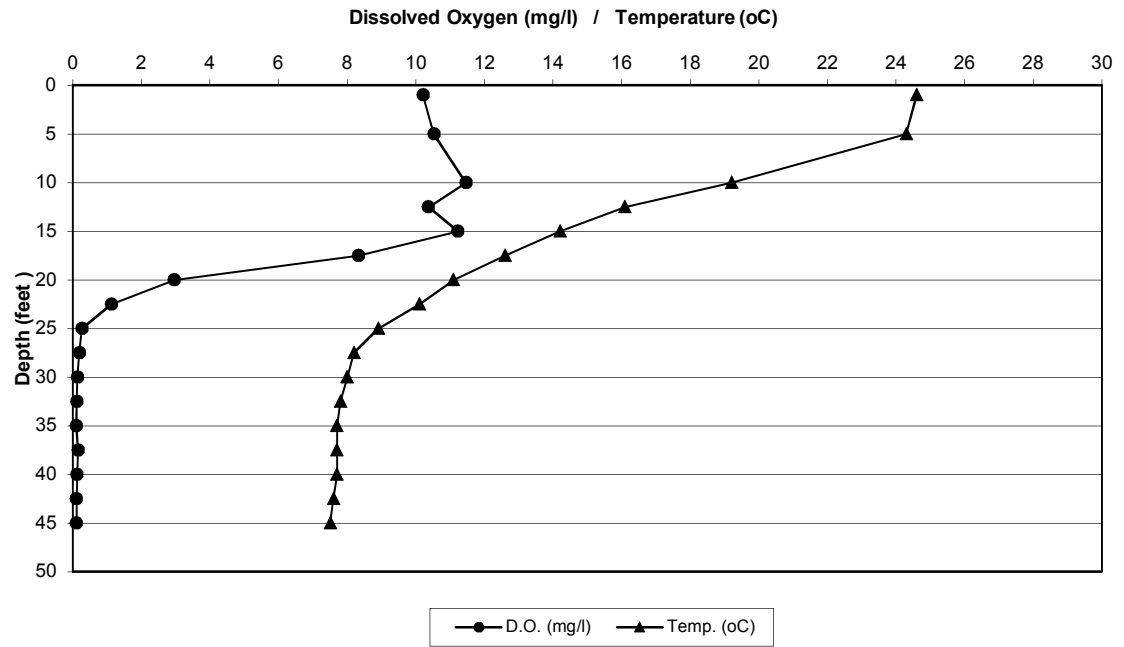


Time: Stony
 County: Oceana
 Date: June 27, 2013
 Time: 14:40

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 June 27, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	24.6	10.21
5	24.3	10.53
10	19.2	11.46
12.5	16.1	10.37
15	14.2	11.23
17.5	12.6	8.33
20	11.1	2.96
22.5	10.1	1.13
25	8.9	0.27
27.5	8.2	0.19
30	8	0.14
32.5	7.8	0.12
35	7.7	0.1
37.5	7.7	0.15
40	7.7	0.13
42.5	7.6	0.11
45	7.5	0.11



Time: Stony
 County: Oceana
 Date: July 4, 2013
 Time: 14:45

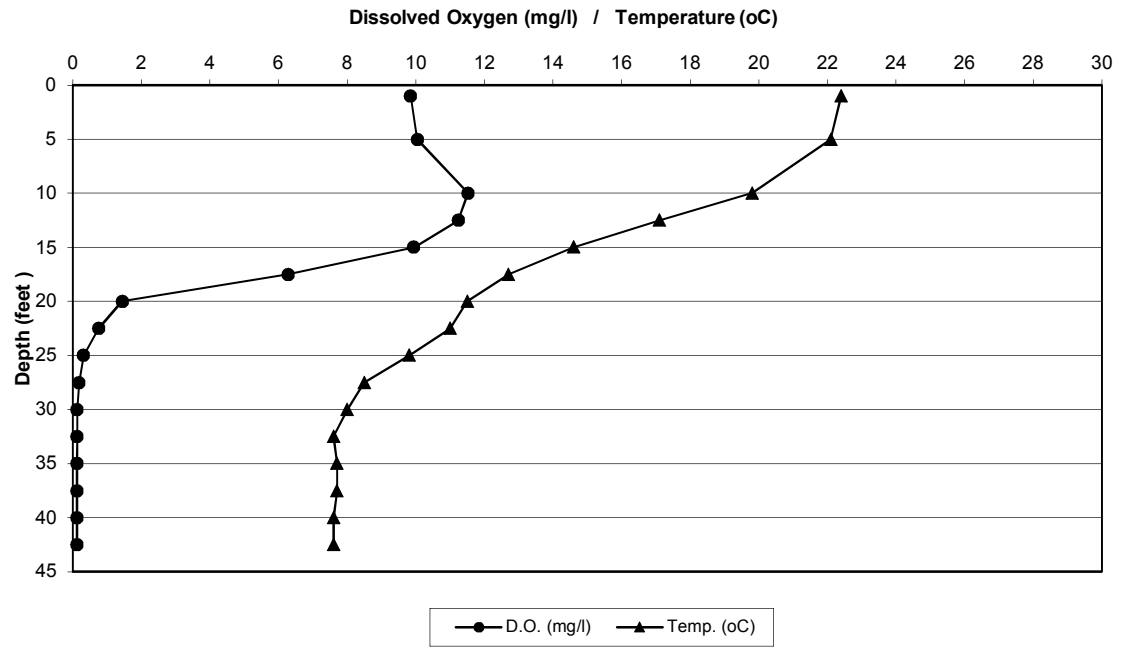
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640049

July 4, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	22.4	9.85
5	22.1	10.04
10	19.8	11.52
12.5	17.1	11.24
15	14.6	9.94
17.5	12.7	6.27
20	11.5	1.44
22.5	11	0.75
25	9.8	0.31
27.5	8.5	0.18
30	8	0.13
32.5	7.6	0.13
35	7.7	0.12
37.5	7.7	0.12
40	7.6	0.12
42.5	7.6	0.12

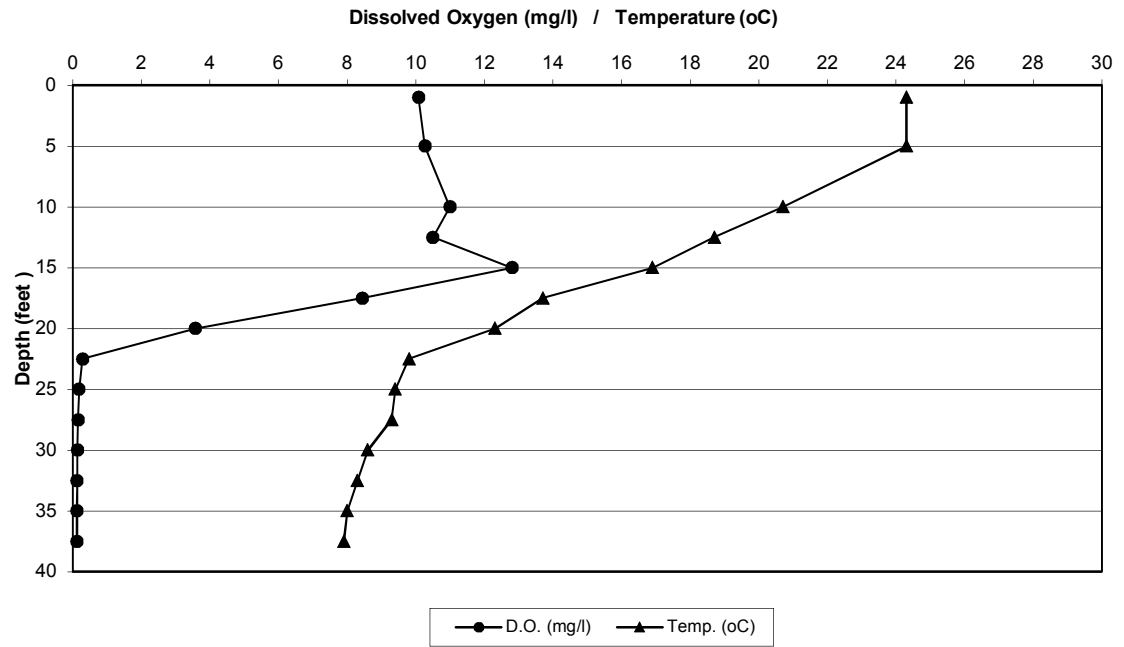


Time: Stony
 County: Oceana
 Date: July 10, 2013
 Time: 14:55

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 July 10, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	24.3	10.08
5	24.3	10.27
10	20.7	11
12.5	18.7	10.5
15	16.9	12.8
17.5	13.7	8.45
20	12.3	3.57
22.5	9.8	0.29
25	9.4	0.18
27.5	9.3	0.15
30	8.6	0.14
32.5	8.3	0.13
35	8	0.12
37.5	7.9	0.12



Time: Stony
 County: Oceana
 Date: July 17, 2013
 Time: 13:12

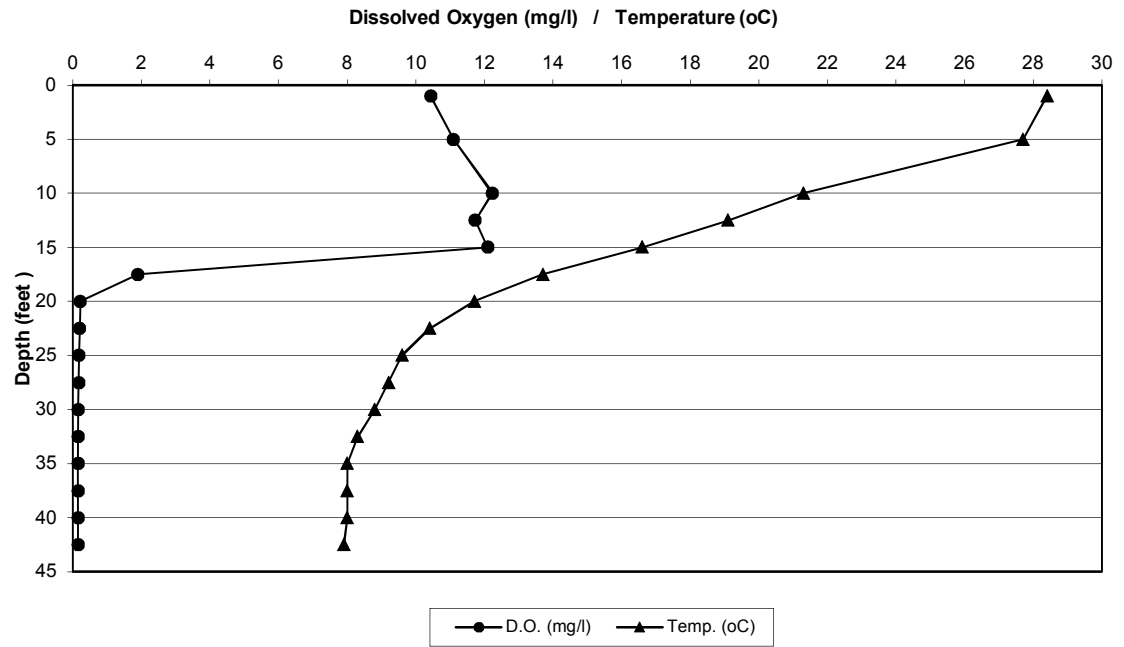
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640049

July 17, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	28.4	10.43
5	27.7	11.1
10	21.3	12.23
12.5	19.1	11.73
15	16.6	12.09
17.5	13.7	1.9
20	11.7	0.22
22.5	10.4	0.2
25	9.6	0.18
27.5	9.2	0.17
30	8.8	0.16
32.5	8.3	0.16
35	8	0.16
37.5	8	0.15
40	8	0.15
42.5	7.9	0.15



Time: Stony
 County: Oceana
 Date: July 29, 2013
 Time: 16:08

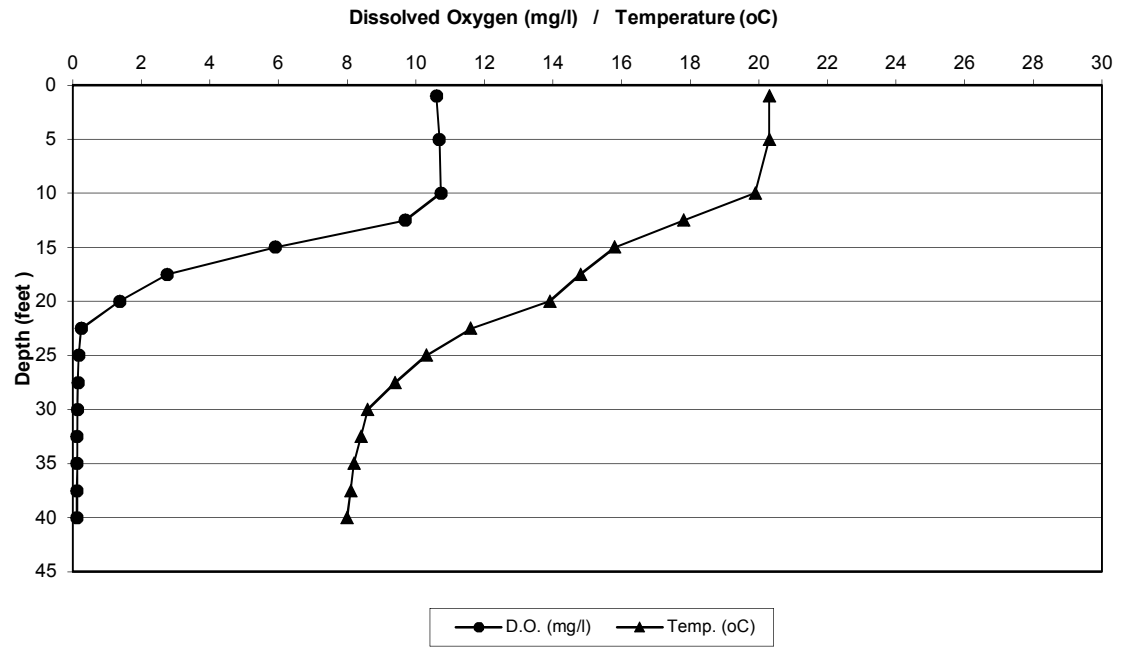
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640049

July 29, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	20.3	10.6
5	20.3	10.69
10	19.9	10.73
12.5	17.8	9.69
15	15.8	5.9
17.5	14.8	2.76
20	13.9	1.37
22.5	11.6	0.25
25	10.3	0.17
27.5	9.4	0.15
30	8.6	0.14
32.5	8.4	0.13
35	8.2	0.13
37.5	8.1	0.12
40	8	0.12

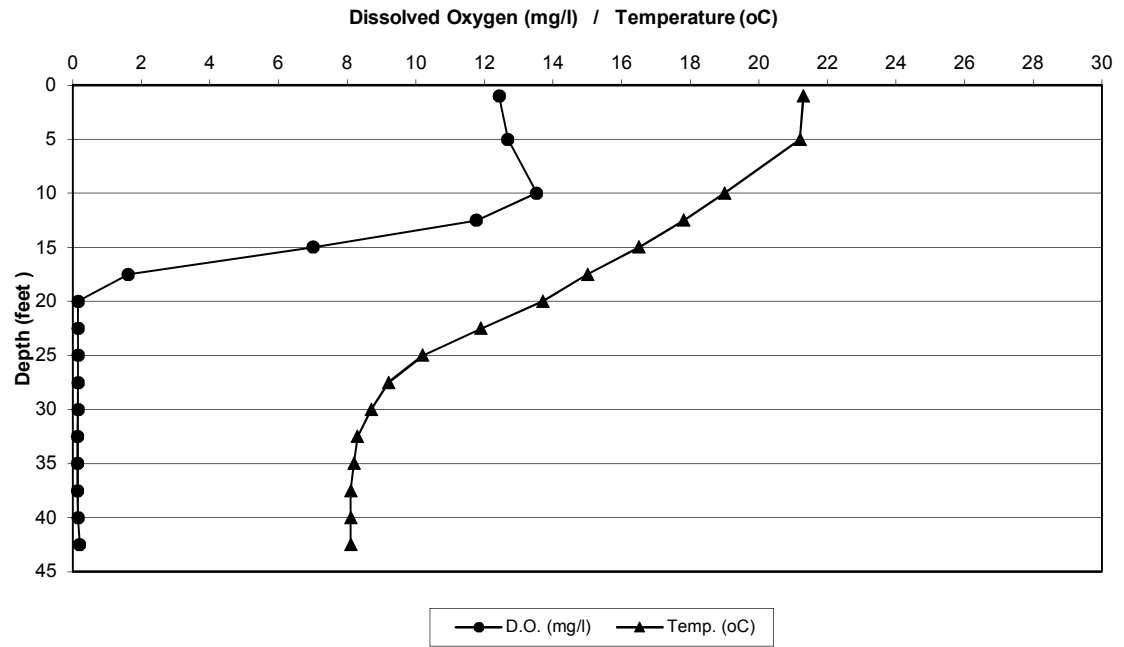


Time: Stony
 County: Oceana
 Date: August 6, 2013
 Time: 14:00

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 August 6, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	21.3	12.43
5	21.2	12.68
10	19	13.52
12.5	17.8	11.77
15	16.5	7
17.5	15	1.62
20	13.7	0.16
22.5	11.9	0.15
25	10.2	0.15
27.5	9.2	0.15
30	8.7	0.15
32.5	8.3	0.14
35	8.2	0.14
37.5	8.1	0.14
40	8.1	0.15
42.5	8.1	0.2

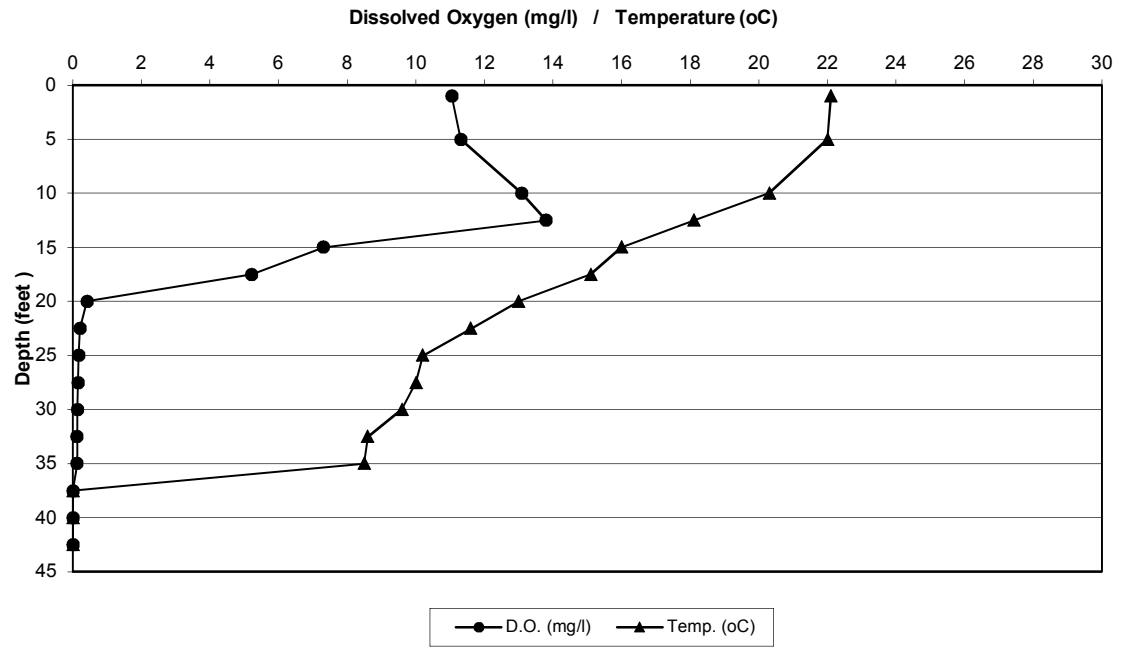


Time: Stony
 County: Oceana
 Date: August 13, 2013
 Time: 14:35

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 August 13, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	22.1	11.05
5	22	11.31
10	20.3	13.09
12.5	18.1	13.8
15	16	7.31
17.5	15.1	5.22
20	13	0.42
22.5	11.6	0.21
25	10.2	0.17
27.5	10	0.15
30	9.6	0.14
32.5	8.6	0.13
35	8.5	0.13
37.5	0	0
40	0	0
42.5	0	0

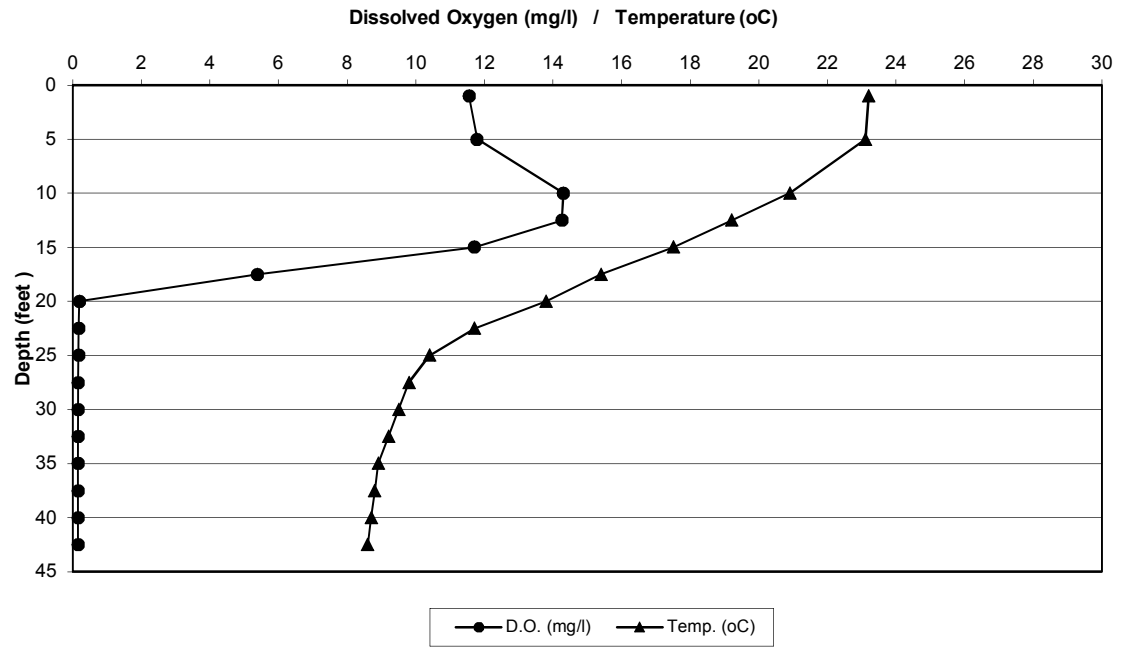


Time: Stony
 County: Oceana
 Date: August 22, 2013
 Time: 15:17

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 August 22, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	23.2	11.55
5	23.1	11.79
10	20.9	14.3
12.5	19.2	14.26
15	17.5	11.7
17.5	15.4	5.39
20	13.8	0.19
22.5	11.7	0.17
25	10.4	0.17
27.5	9.8	0.16
30	9.5	0.15
32.5	9.2	0.15
35	8.9	0.15
37.5	8.8	0.15
40	8.7	0.15
42.5	8.6	0.15

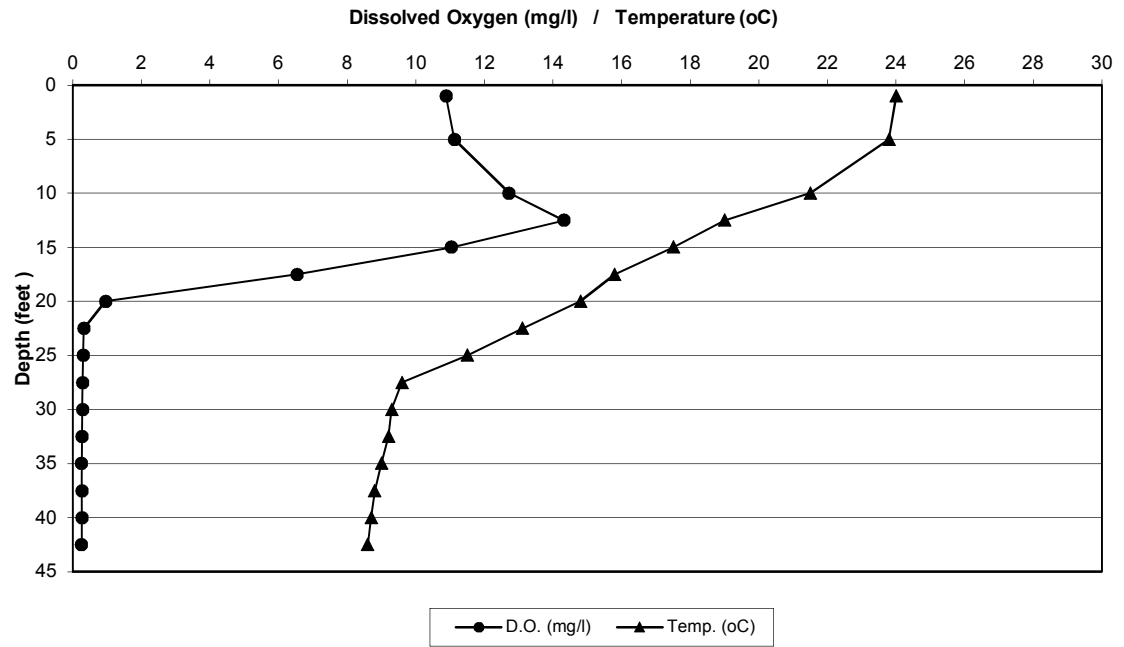


Time: Stony
 County: Oceana
 Date: August 27, 2013
 Time: 14:06

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 August 27, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	24	10.88
5	23.8	11.13
10	21.5	12.72
12.5	19	14.32
15	17.5	11.04
17.5	15.8	6.54
20	14.8	0.96
22.5	13.1	0.32
25	11.5	0.3
27.5	9.6	0.29
30	9.3	0.29
32.5	9.2	0.27
35	9	0.26
37.5	8.8	0.27
40	8.7	0.27
42.5	8.6	0.26

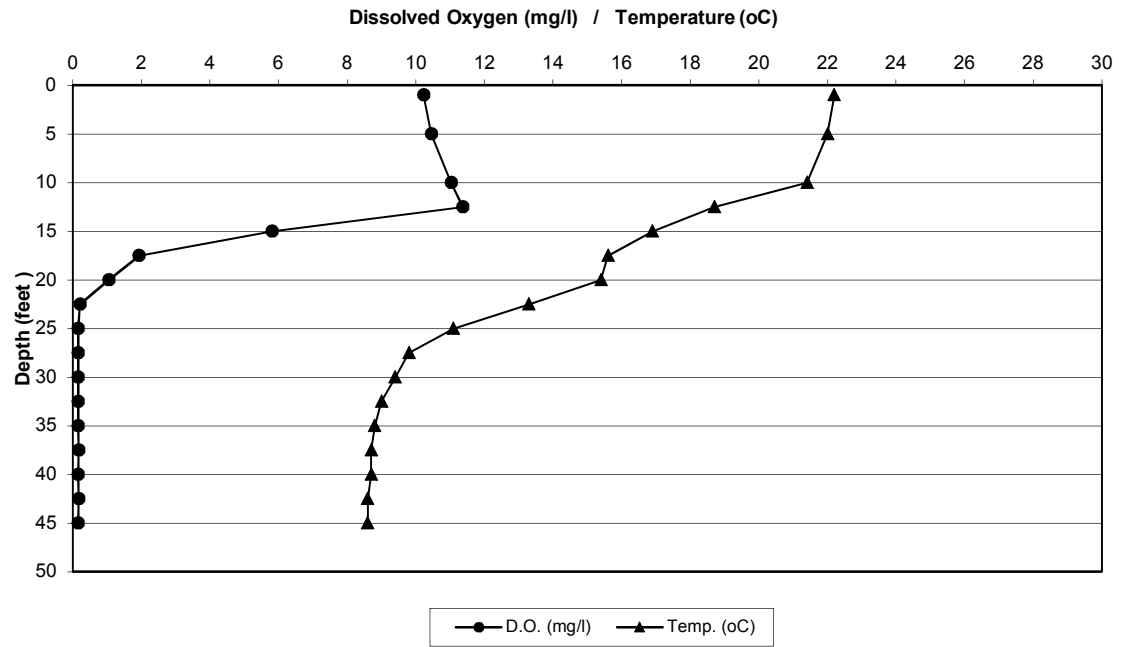


Time: Stony
 County: Oceana
 Date: September 4, 2013
 Time: 14:43

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 September 4, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	22.2	10.23
5	22	10.45
10	21.4	11.03
12.5	18.7	11.37
15	16.9	5.81
17.5	15.6	1.94
20	15.4	1.05
22.5	13.3	0.21
25	11.1	0.16
27.5	9.8	0.16
30	9.4	0.16
32.5	9	0.16
35	8.8	0.16
37.5	8.7	0.17
40	8.7	0.16
42.5	8.6	0.17
45	8.6	0.16

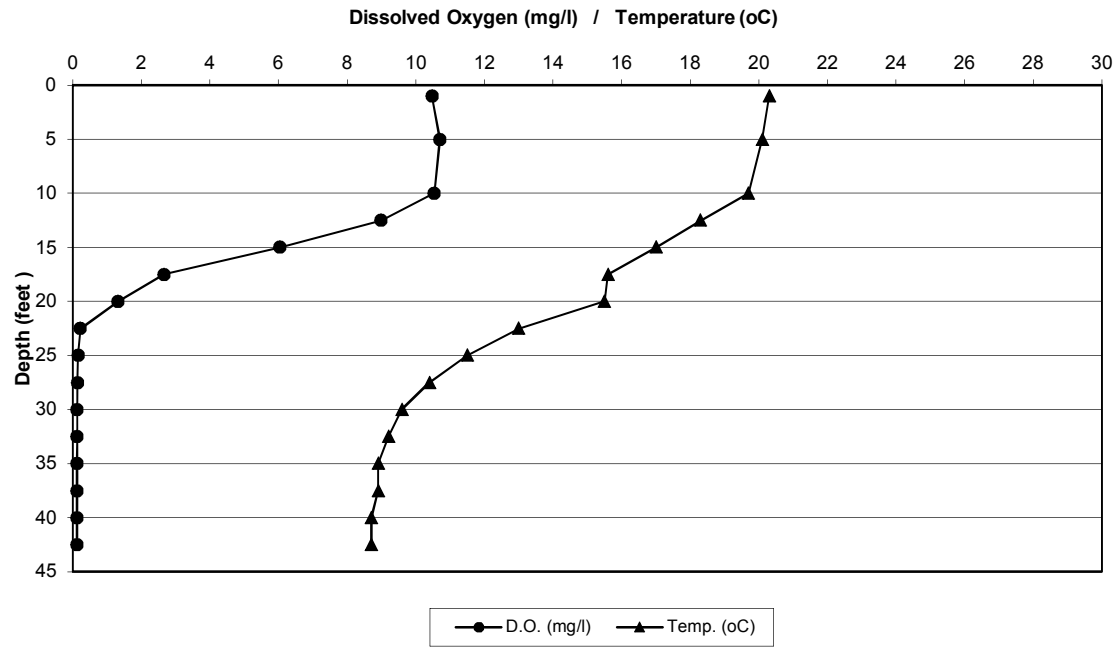


Time: Stony
 County: Oceana
 Date: September 14, 2013
 Time: 12:41

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640049 September 14, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	20.3	10.47
5	20.1	10.7
10	19.7	10.54
12.5	18.3	8.99
15	17	6.04
17.5	15.6	2.66
20	15.5	1.32
22.5	13	0.22
25	11.5	0.15
27.5	10.4	0.14
30	9.6	0.13
32.5	9.2	0.13
35	8.9	0.12
37.5	8.9	0.12
40	8.7	0.12
42.5	8.7	0.12

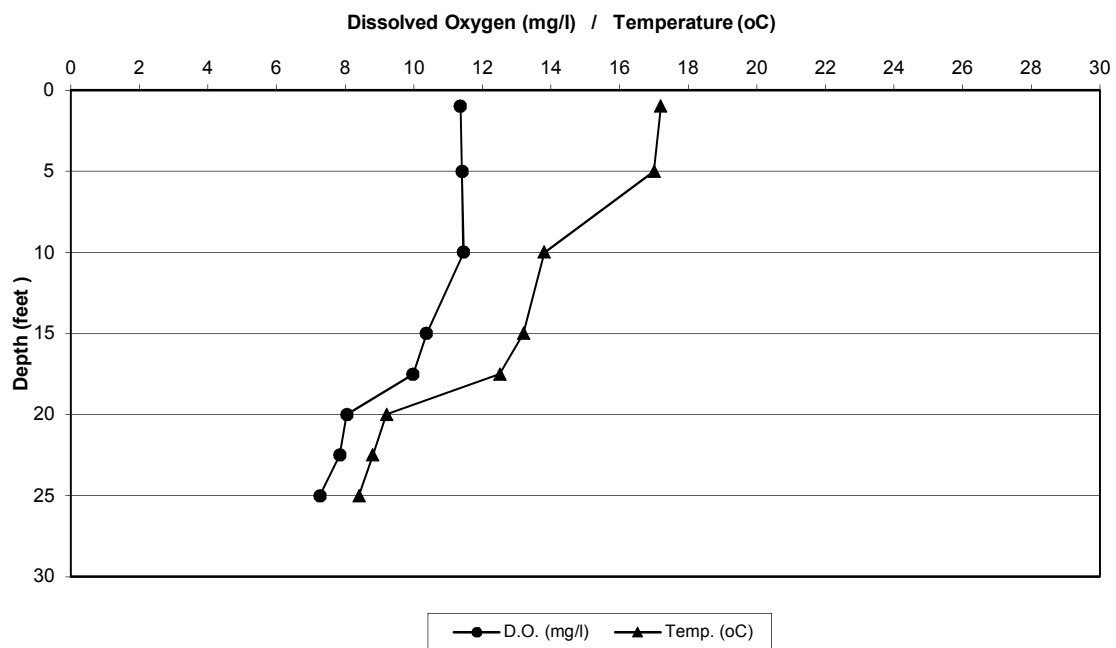


Time: Stony
County: Oceana
Date: May 15, 2013
Time: 15:15

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640345 May 15, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	17.2	11.36
5	17	11.4
10	13.8	11.45
15	13.2	10.37
17.5	12.5	9.98
20	9.2	8.05
22.5	8.8	7.84
25	8.4	7.26



Time: Stony
County: Oceana
Date: May 26, 2013
Time: 15:45

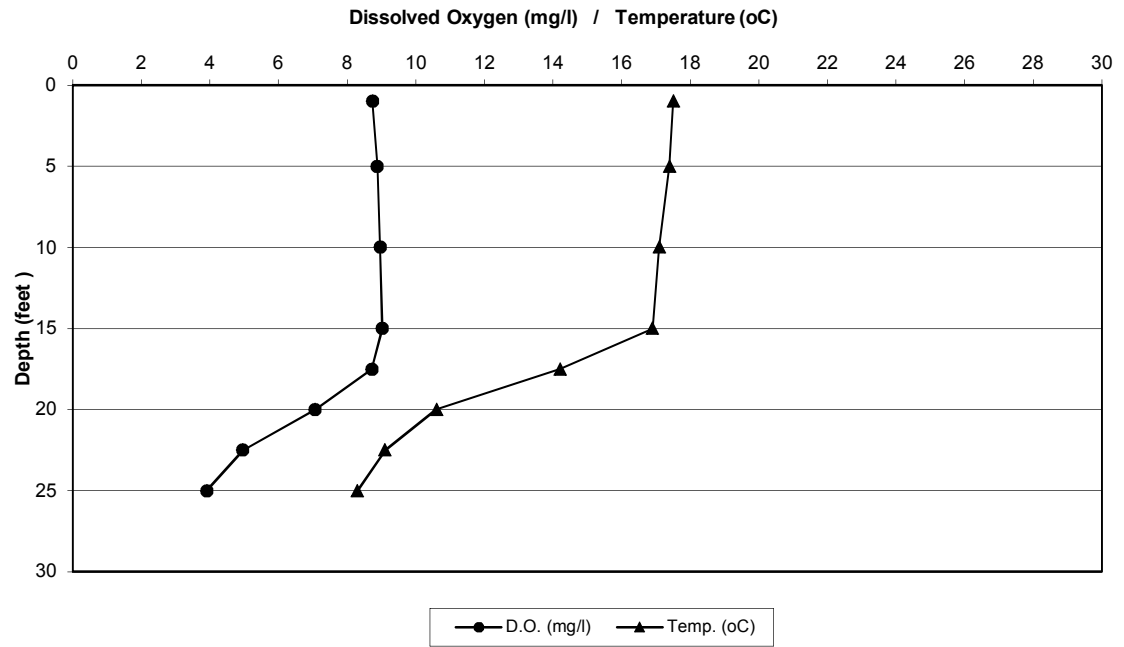
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

May 26, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	17.5	8.74
5	17.4	8.88
10	17.1	8.96
15	16.9	9.02
17.5	14.2	8.72
20	10.6	7.07
22.5	9.1	4.96
25	8.3	3.9



Time: Stony
County: Oceana
Date: June 3, 2013
Time: 14:40

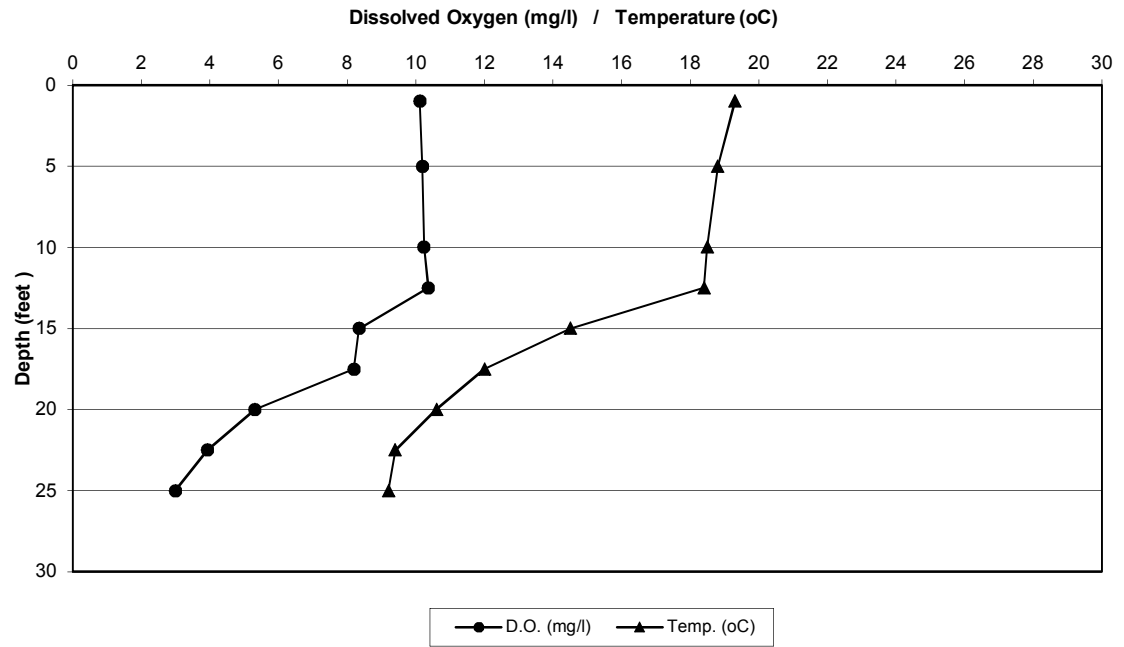
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

June 3, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	19.3	10.12
5	18.8	10.19
10	18.5	10.24
12.5	18.4	10.37
15	14.5	8.34
17.5	12	8.2
20	10.6	5.31
22.5	9.4	3.92
25	9.2	2.99



Time: Stony
County: Oceana
Date: June 15, 2013
Time: 14:05

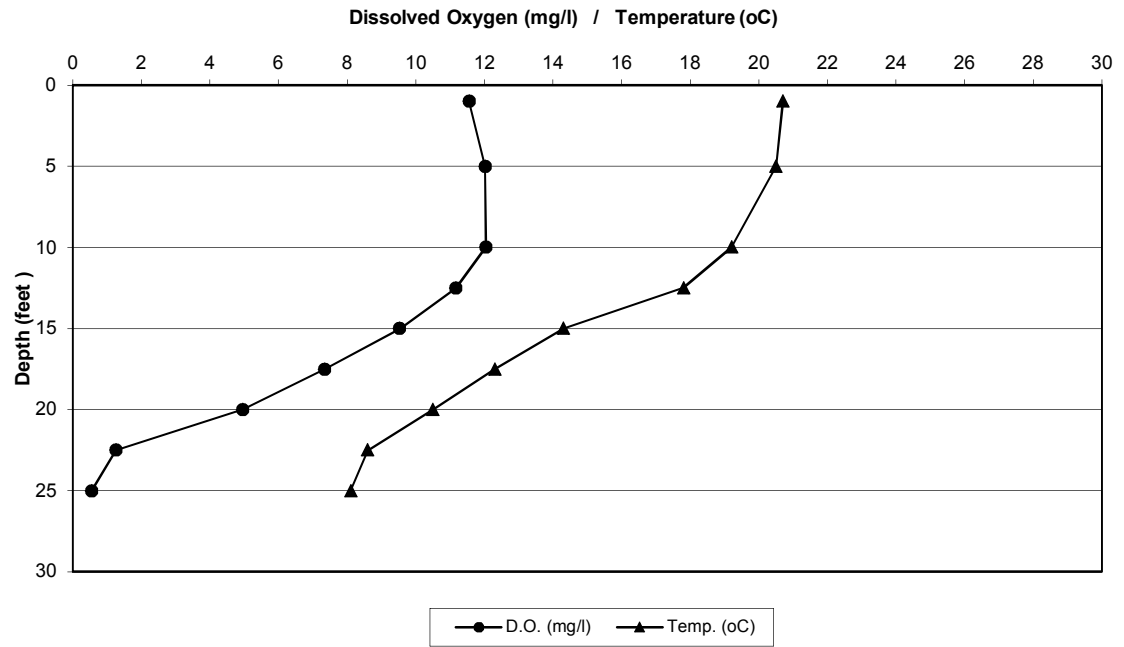
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

June 15, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	20.7	11.56
5	20.5	12.02
10	19.2	12.04
12.5	17.8	11.17
15	14.3	9.53
17.5	12.3	7.35
20	10.5	4.96
22.5	8.6	1.25
25	8.1	0.55

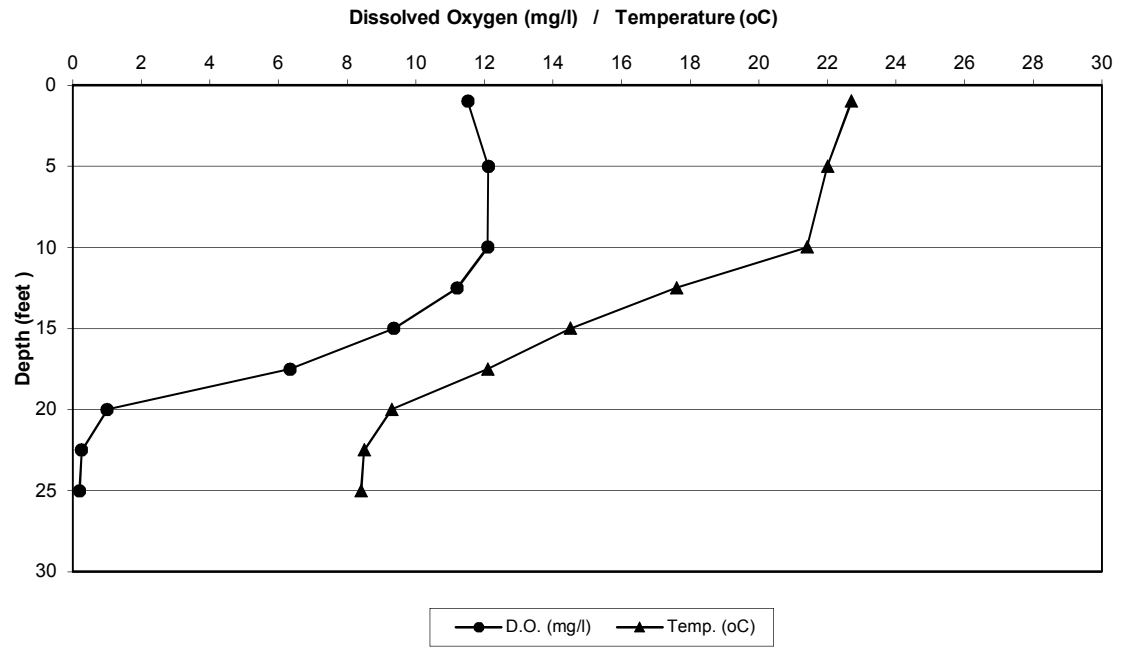


Time: Stony
County: Oceana
Date: June 20, 2013
Time: 14:30

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640345 June 20, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	22.7	11.52
5	22	12.11
10	21.4	12.1
12.5	17.6	11.21
15	14.5	9.35
17.5	12.1	6.33
20	9.3	1
22.5	8.5	0.26
25	8.4	0.19



Time: Stony
County: Oceana
Date: June 27, 2013
Time: 14:00

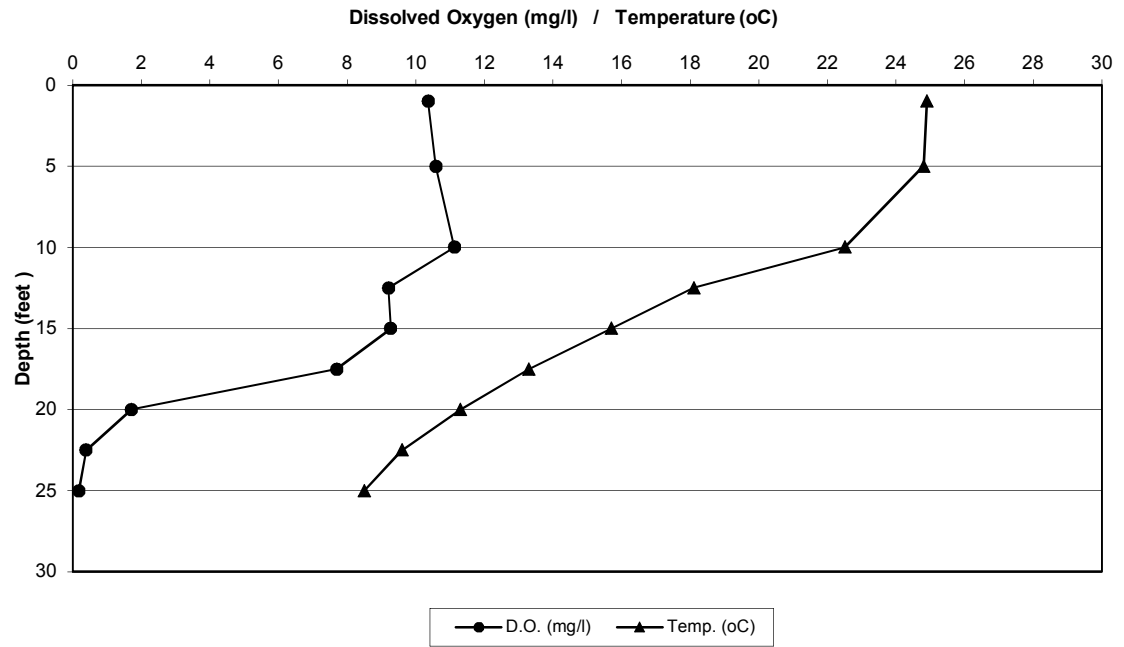
Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	24.9	10.36
5	24.8	10.59
10	22.5	11.12
12.5	18.1	9.2
15	15.7	9.27
17.5	13.3	7.69
20	11.3	1.71
22.5	9.6	0.39
25	8.5	0.18

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

June 27, 2013



Time: Stony
County: Oceana
Date: July 4, 2013
Time: 14:18

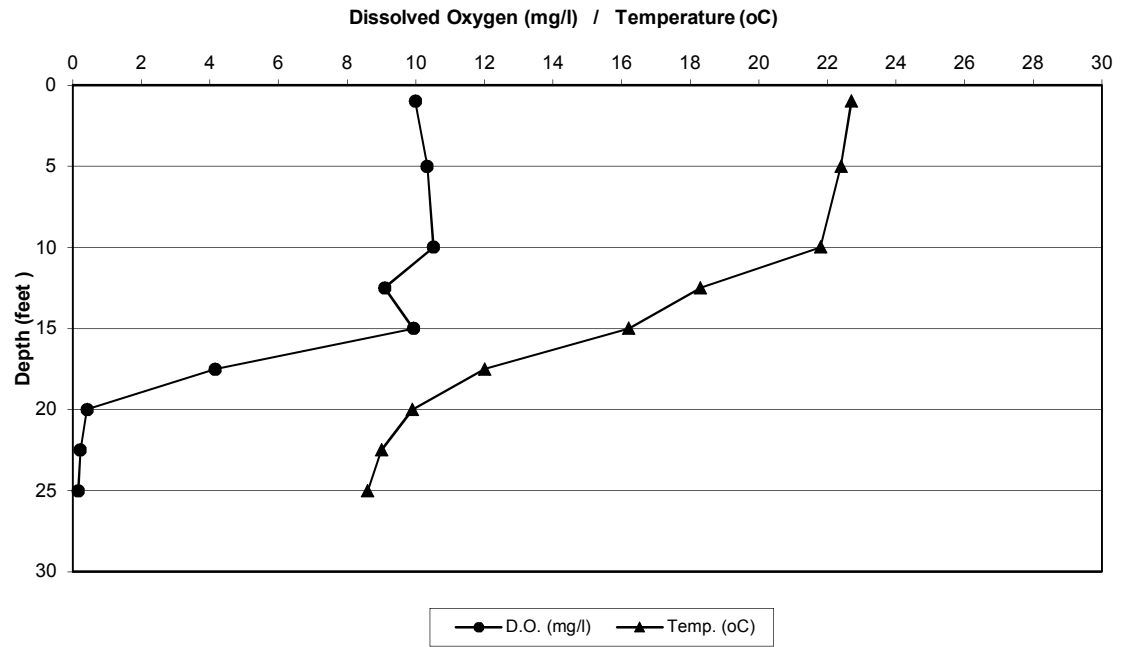
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

July 4, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	22.7	9.99
5	22.4	10.33
10	21.8	10.51
12.5	18.3	9.09
15	16.2	9.93
17.5	12	4.16
20	9.9	0.42
22.5	9	0.22
25	8.6	0.16



Time: Stony
 County: Oceana
 Date: July 10, 2013
 Time: 14:28

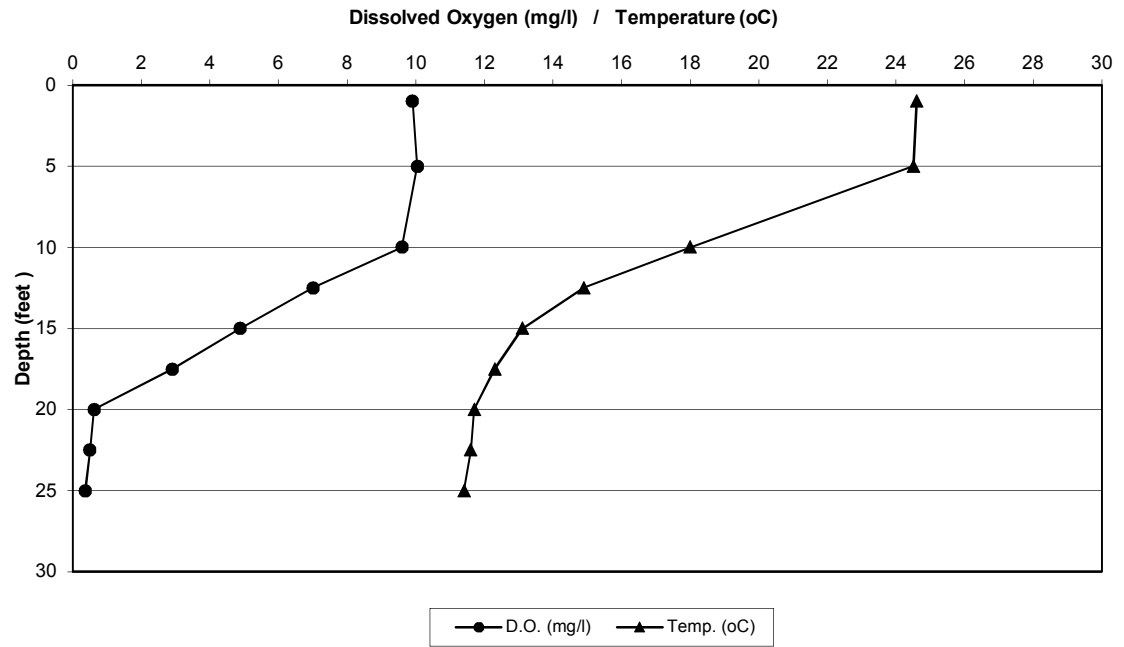
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

July 10, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	24.6	9.9
5	24.5	10.04
10	18	9.6
12.5	14.9	7
15	13.1	4.88
17.5	12.3	2.9
20	11.7	0.62
22.5	11.6	0.5
25	11.4	0.37



Time: Stony
County: Oceana
Date: July 17, 2013
Time: 12:35

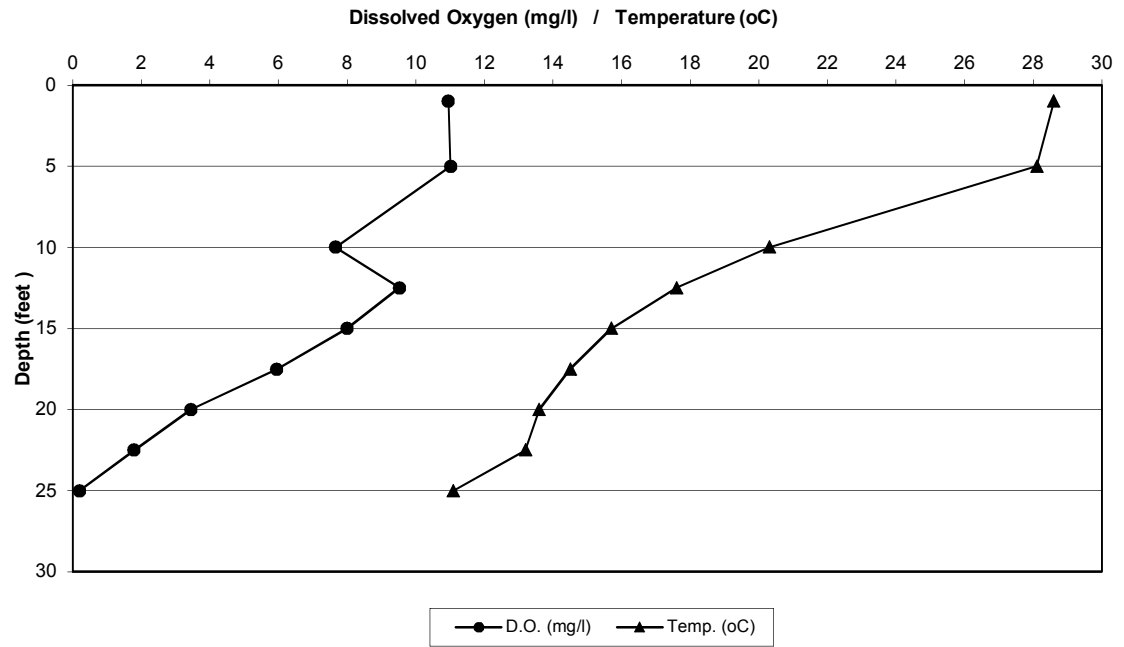
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

July 17, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	28.6	10.95
5	28.1	11.01
10	20.3	7.66
12.5	17.6	9.52
15	15.7	7.99
17.5	14.5	5.95
20	13.6	3.45
22.5	13.2	1.79
25	11.1	0.19



Time: Stony
County: Oceana
Date: July 29, 2013
Time: 16:42

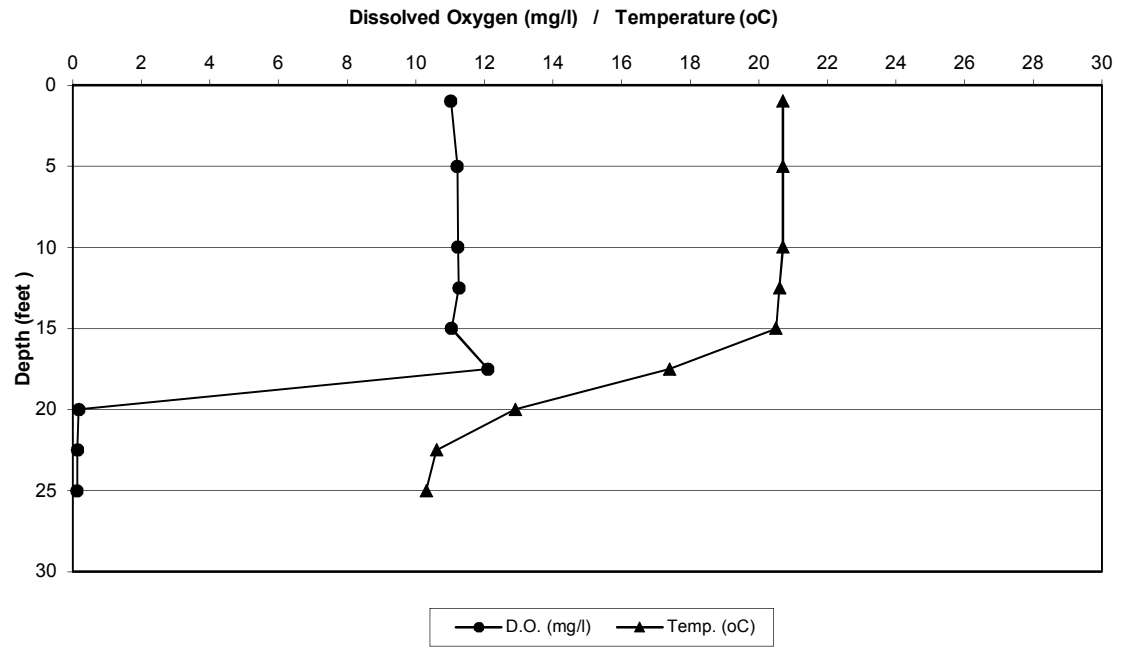
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

July 29, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	20.7	11.02
5	20.7	11.21
10	20.7	11.23
12.5	20.6	11.26
15	20.5	11.04
17.5	17.4	12.1
20	12.9	0.17
22.5	10.6	0.14
25	10.3	0.13



Time: Stony
County: Oceana
Date: August 6, 2013
Time: 14:46

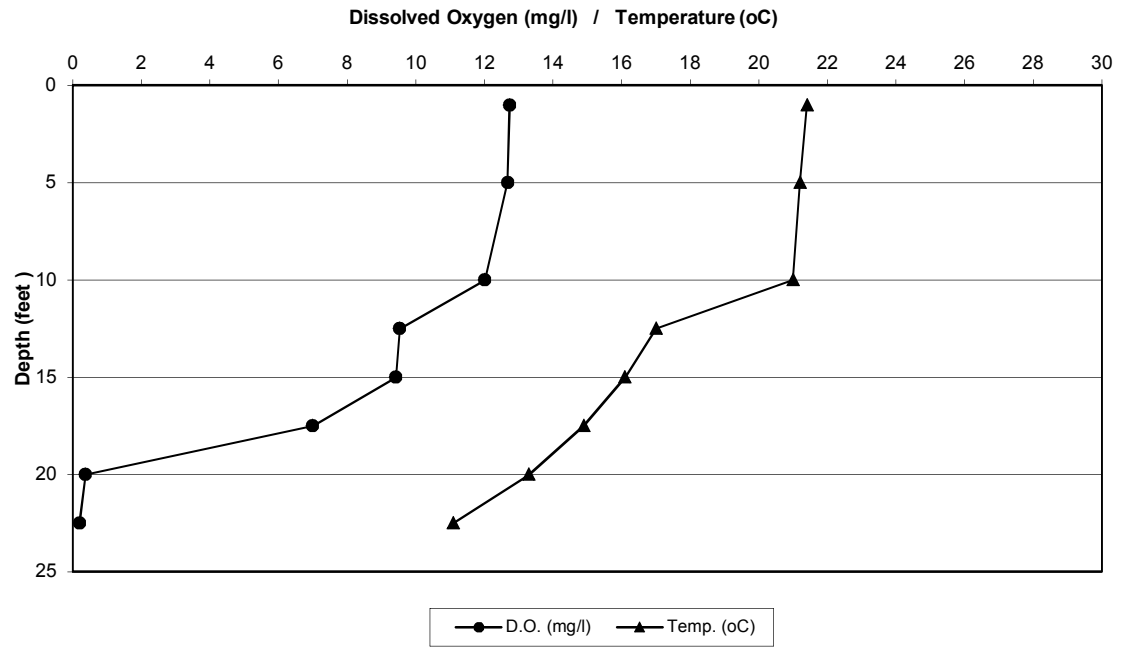
Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	21.4	12.73
5	21.2	12.67
10	21	12.01
12.5	17	9.53
15	16.1	9.42
17.5	14.9	6.99
20	13.3	0.37
22.5	11.1	0.2

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

August 6, 2013



Time: Stony
County: Oceana
Date: August 13, 2013
Time: 14:08

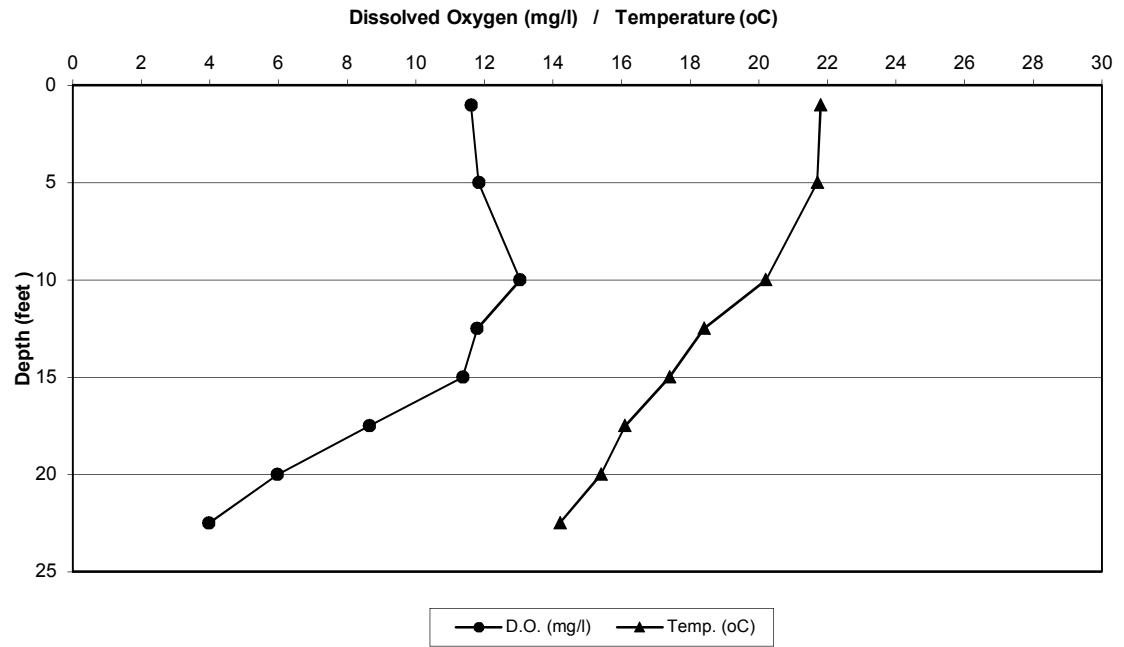
Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.)

640345

August 13, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	21.8	11.61
5	21.7	11.84
10	20.2	13.04
12.5	18.4	11.79
15	17.4	11.37
17.5	16.1	8.64
20	15.4	5.97
22.5	14.2	3.96

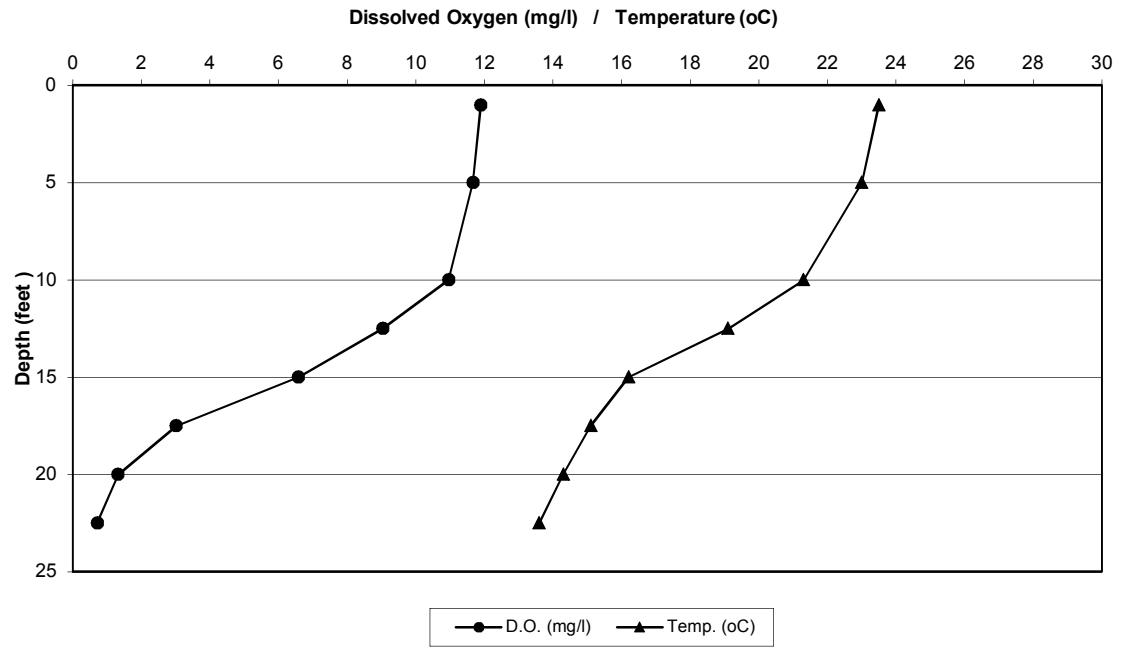


Time: Stony
County: Oceana
Date: August 22, 2013
Time: 14:48

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640345 August 22, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	23.5	11.89
5	23	11.67
10	21.3	10.96
12.5	19.1	9.04
15	16.2	6.57
17.5	15.1	3.02
20	14.3	1.32
22.5	13.6	0.71

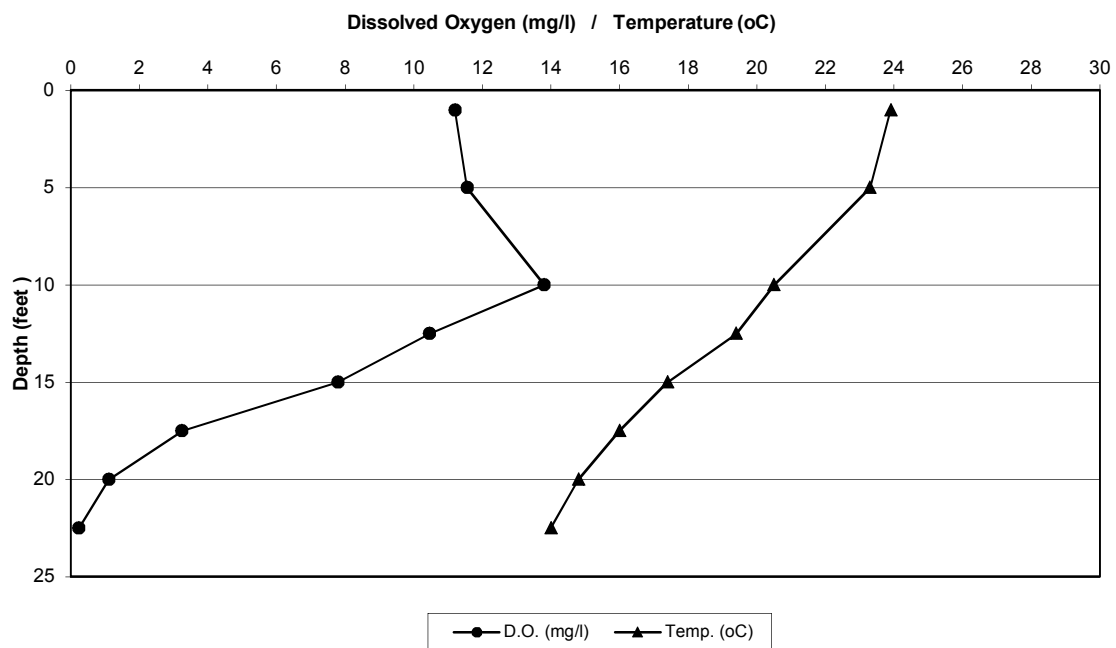


Time: Stony
County: Oceana
Date: August 27, 2013
Time: 13:26

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640345 August 27, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	23.9	11.2
5	23.3	11.56
10	20.5	13.8
12.5	19.4	10.46
15	17.4	7.79
17.5	16	3.24
20	14.8	1.11
22.5	14	0.24

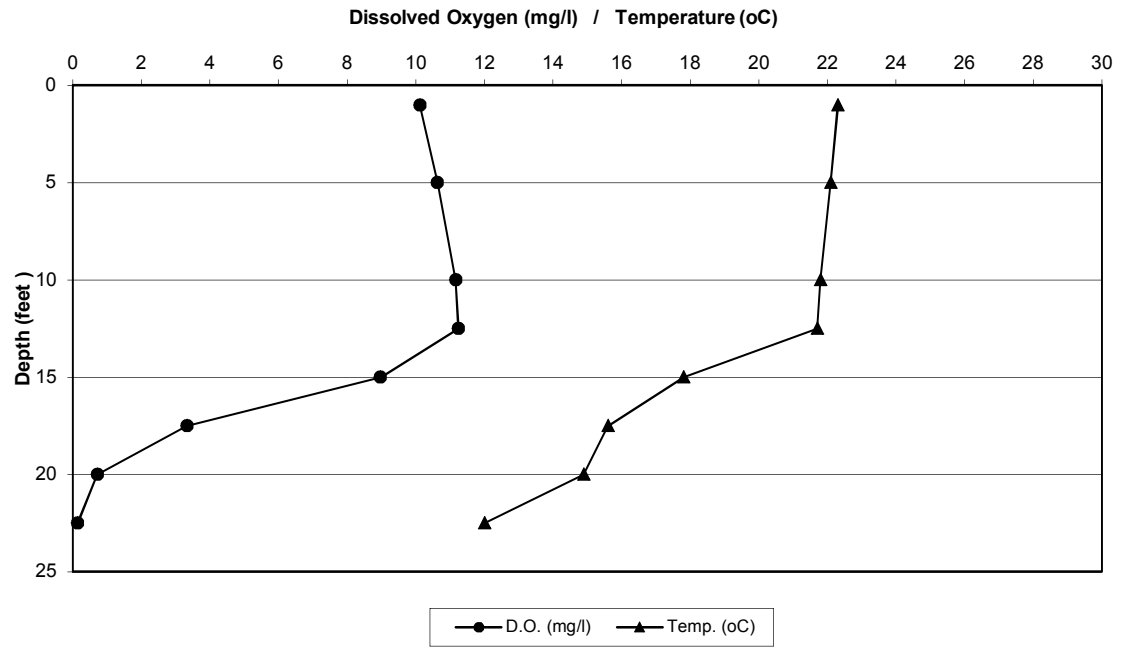


Time: Stony
County: Oceana
Date: September 4, 2013
Time: 14:11

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640345 September 4, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	22.3	10.12
5	22.1	10.63
10	21.8	11.16
12.5	21.7	11.24
15	17.8	8.97
17.5	15.6	3.33
20	14.9	0.71
22.5	12	0.14



Time: Stony
County: Oceana
Date: September 14, 2013
Time: 12:10

Dissolved Oxygen and Temperature Profile

Lake: Stony (Oceana Co.) 640345 September 14, 2013

Depth (ft.)	Temp. (°C)	D.O. (mg/l)
1	20	11.04
5	19.9	11.37
10	19.6	11.83
12.5	19.4	11.5
15	17.8	12.51
17.5	16.8	8.65
20	15	9.32
22.5	13	0.29
25	10.6	0.2

