

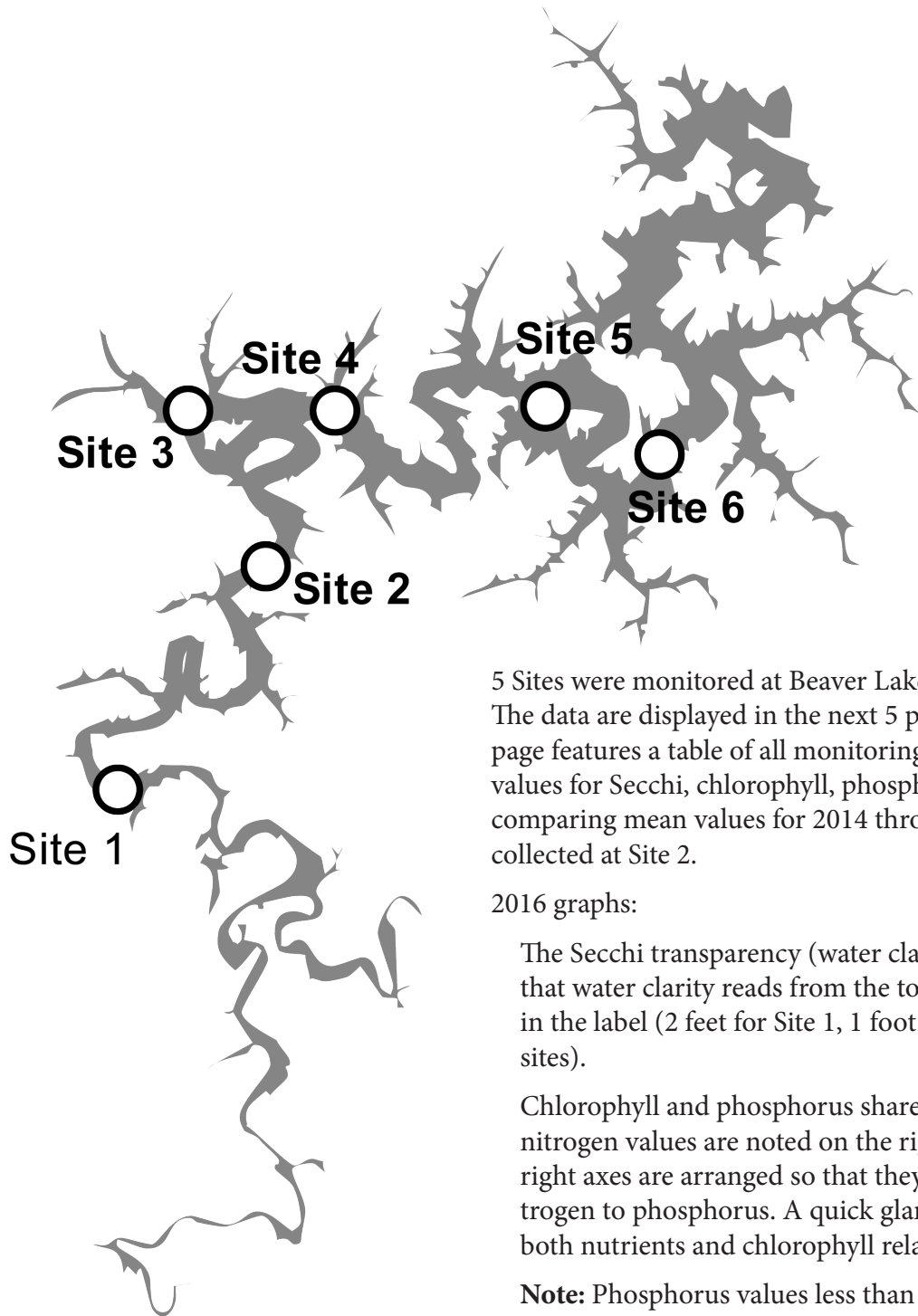
# ***Beaver Lake Volunteer Monitoring Program***

## ***2014-2016 Data Report***



*Angela Danovi  
Beaver LakeSmart / StreamSmart Coordinator  
Ozarks Water Watch  
1200 W. Walnut Street, Suite 3405  
Rogers, AR 72745*

# Beaver Lake Smart 2016 Data



5 Sites were monitored at Beaver Lake in 2016 (no data for Site 4). The data are displayed in the next 5 pages; 1 page per site. Each page features a table of all monitoring data, graphs showing 2016 values for Secchi, chlorophyll, phosphorus and nitrogen, and graphs comparing mean values for 2014 through 2016. No 2014 data were collected at Site 2.

## 2016 graphs:

The Secchi transparency (water clarity) graphs are arranged so that water clarity reads from the top down. Intervals are noted in the label (2 feet for Site 1, 1 foot for Site 2, 3 feet for the other sites).

Chlorophyll and phosphorus share the left vertical axis, while nitrogen values are noted on the right vertical axis. The left and right axes are arranged so that they display a 20 to 1 ratio of nitrogen to phosphorus. A quick glance at the graph will show how both nutrients and chlorophyll relate to one another.

**Note:** Phosphorus values less than 10 ug/L are below the limit of detection and are displayed on the graph as 5 ug/L.

## 2014 through 2016 comparison graphs:

All sites share the same graph scales for easier comparison.

Secchi transparency graphs (water clarity) are arranged so that water clarity reads from the top down.

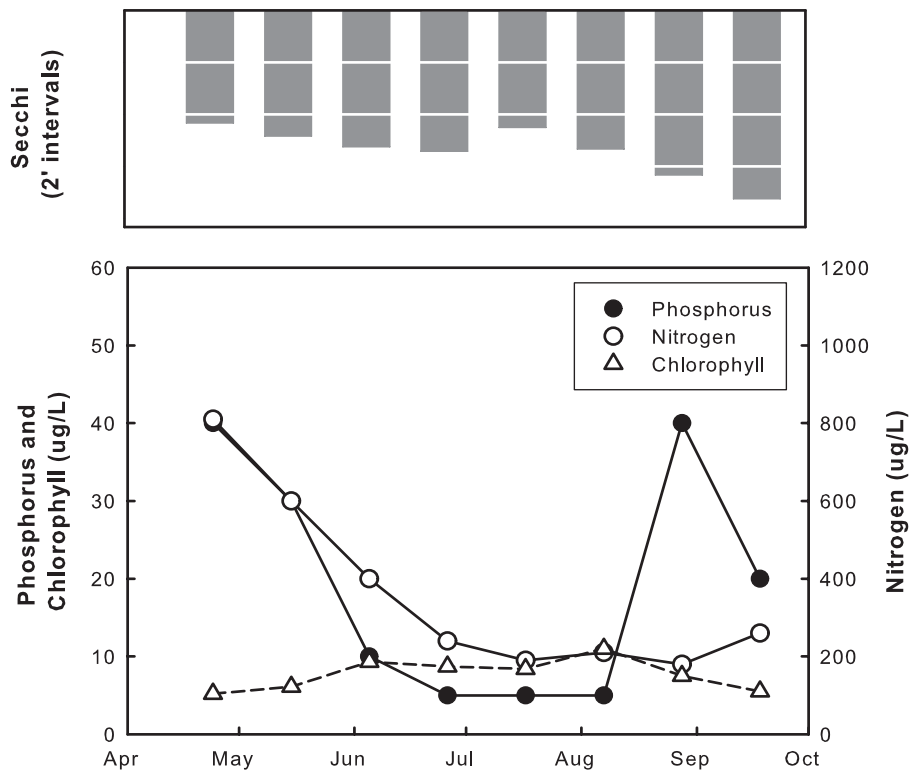
# Beaver Lake - Site 1

## 2016 DATA TABLE

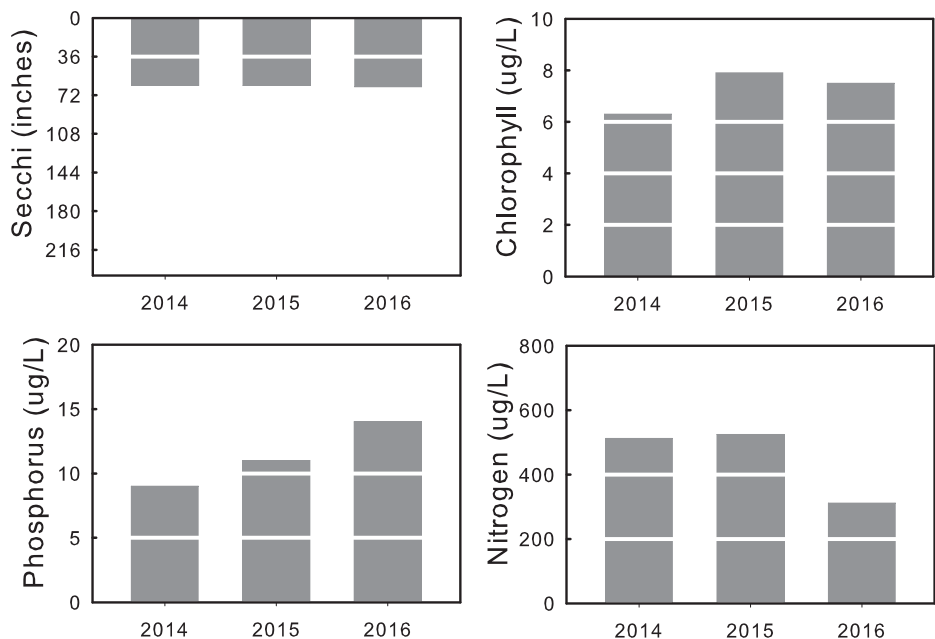
	4/24	5/15	6/5	6/26	7/17	8/7	8/28	9/18	Mean
Temp	68	80	87	93	92	93	90	82	<b>85</b>
Secchi	52	58	63	65	54	64	76	87	<b>64</b>
TN	810	600	400	240	190	210	180	260	<b>311</b>
TP	40	30	10	5	5	5	40	20	<b>14</b>
CHL	5.2	6.1	9.3	8.7	8.4	11	7.5	5.5	<b>7.5</b>

## 2016 GRAPH

Graph displays all 2016 data



## 2014 - 2016



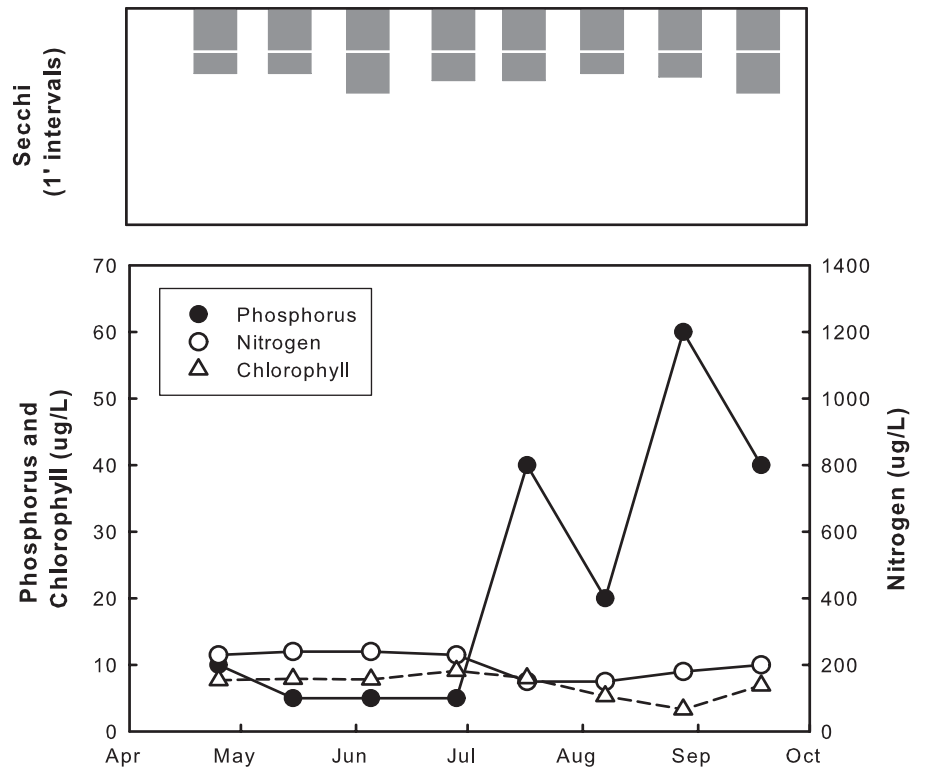
# Beaver Lake - Site 2

## 2016 DATA TABLE

	4/25	5/15	6/5	6/28	7/17	8/7	8/28	9/18	Mean
Temp	65	67	75	86	83	87	81	80	<b>78</b>
Secchi	18	18	24	20	20	18	19	24	<b>20</b>
TN	230	240	240	230	150	150	180	200	<b>199</b>
TP	10	5	5	5	40	20	60	40	<b>15</b>
CHL	7.7	7.9	7.8	9.1	8	5.3	3.3	6.9	<b>6.7</b>

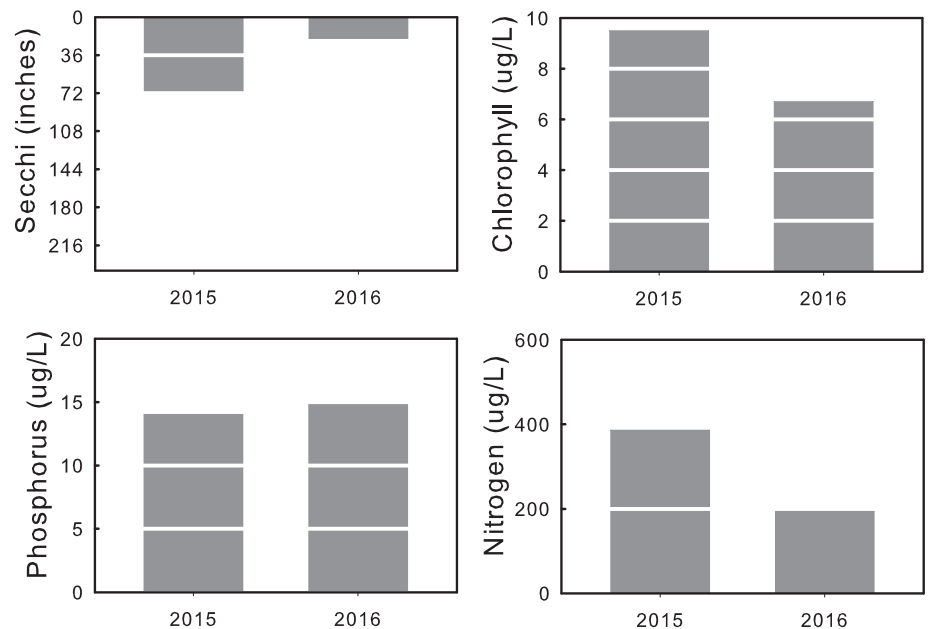
## 2016 GRAPH

Graph displays all 2016 data



## 2015 - 2016

No 2014 data for Site 2



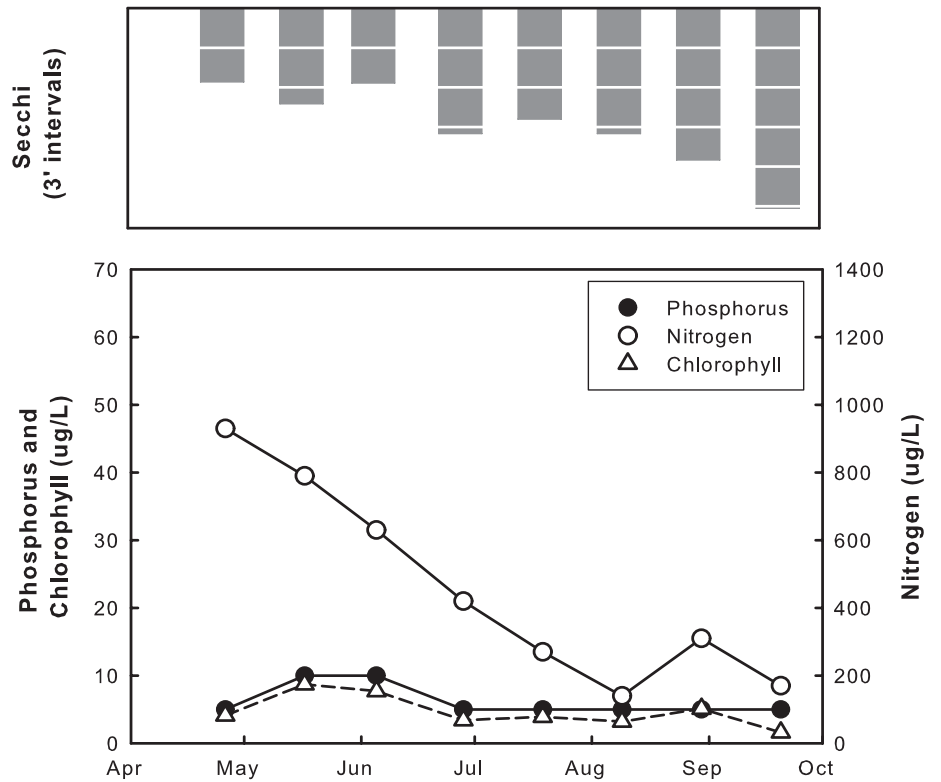
# Beaver Lake - Site 3

## 2016 DATA TABLE

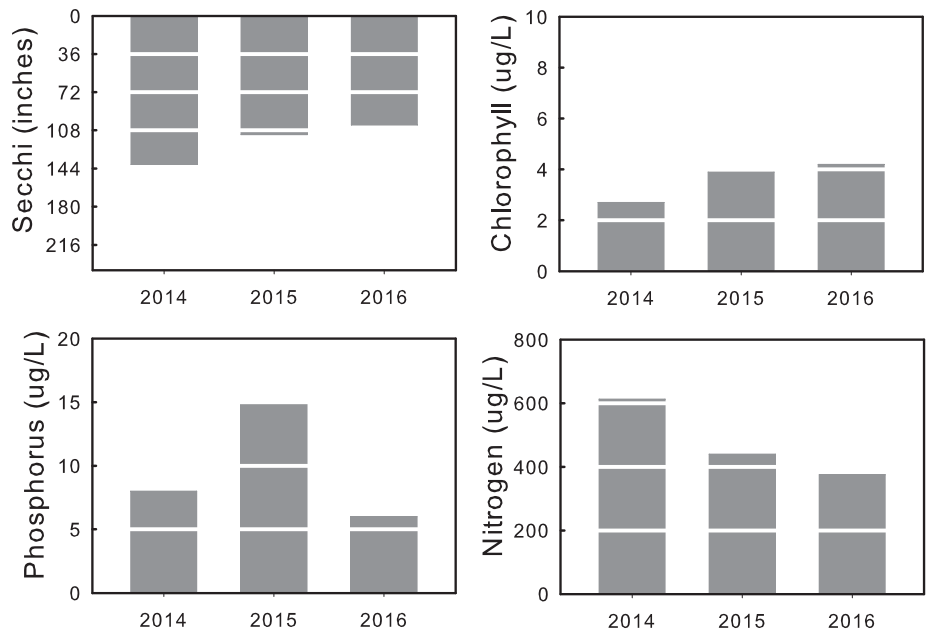
	4/26	5/17	6/5	6/28	7/19	8/9	8/30	9/20	Mean
Temp	67	68	79	90	92	88	84	84	<b>81</b>
Secchi	67	87	68	114	101	114	138	182	<b>103</b>
TN	930	790	630	420	270	140	310	170	<b>375</b>
TP	5	10	10	5	5	5	5	5	<b>6</b>
CHL	4.1	8.7	7.7	3.4	3.9	3.2	5.1	1.6	<b>4.2</b>

## 2016 GRAPH

Graph displays all 2016 data



## 2014 - 2016



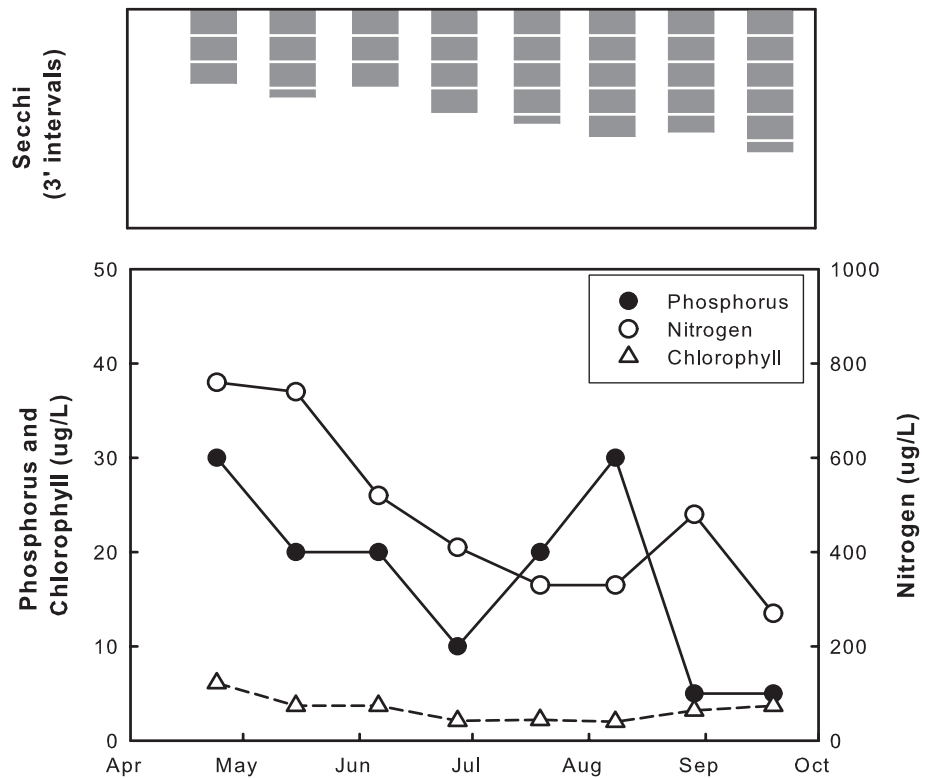
# Beaver Lake - Site 5

## 2016 DATA TABLE

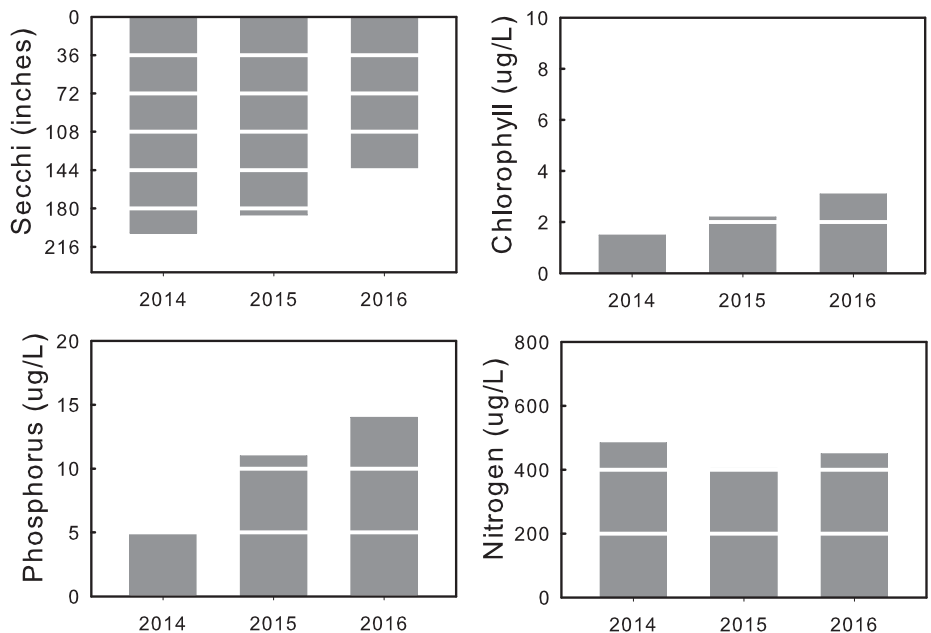
	4/24	5/15	6/6	6/27	7/19	8/8	8/29	9/19	Mean
Temp	67	68	81	86	83	87	83	85	<b>80</b>
Secchi	101	120	108	144	156	174	168	195	<b>142</b>
TN	760	740	520	410	330	330	480	270	<b>450</b>
TP	30	20	20	10	20	30	5	5	<b>14</b>
CHL	6.1	3.7	3.7	2.1	2.2	2	3.2	3.7	<b>3.1</b>

## 2016 GRAPH

Graph displays all 2016 data



## 2014 - 2016



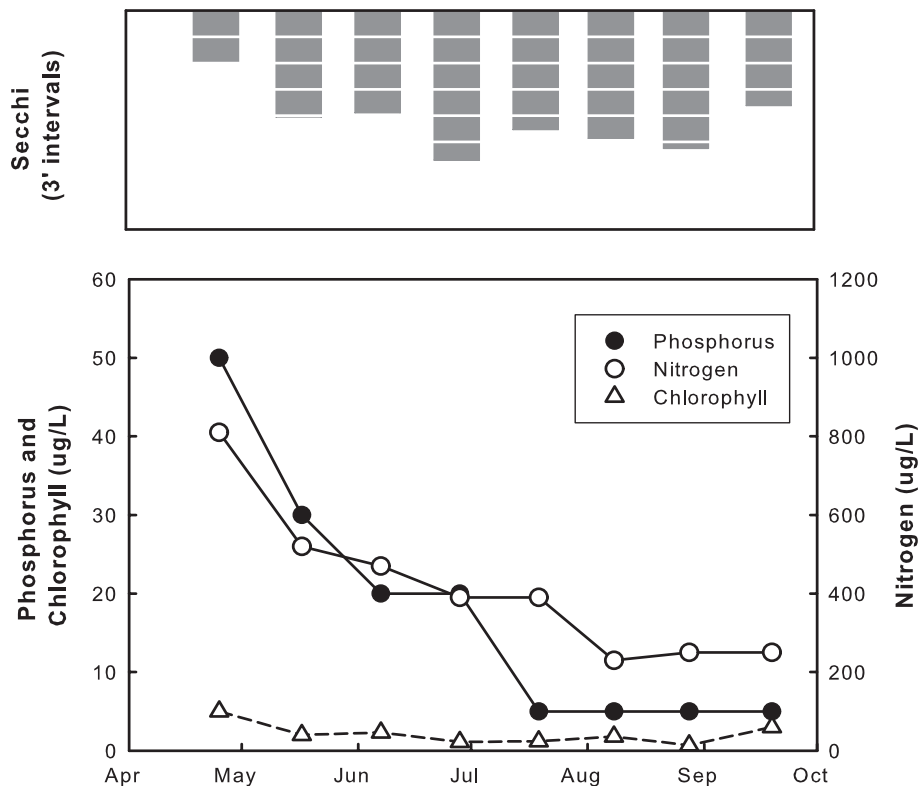
# Beaver Lake - Site 6

## 2016 DATA TABLE

	4/25	5/17	6/7	6/28	7/19	8/8	8/28	9/19	Mean
Temp	63	70	78	89	90	86	85	84	<b>80</b>
Secchi	72	146	140	205	163	175	189	130	<b>146</b>
TN	810	520	470	390	390	230	250	250	<b>380</b>
TP	50	30	20	20	5	5	5	5	<b>12</b>
CHL	5	2	2.3	1.1	1.2	1.8	0.68	3	<b>1.8</b>

## 2016 GRAPH

Graph displays all 2016 data



## 2014 - 2016

