

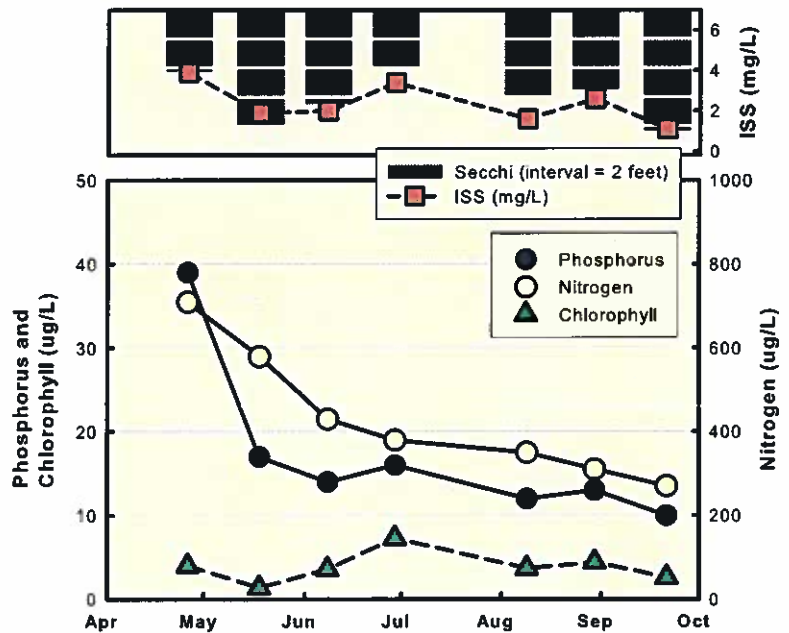
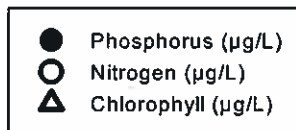
Riss

2014 DATA TABLE

| | 4/26 | 5/18 | 6/8 | 6/29 | 7/19 | 8/9 | 8/30 | 9/21 | Mean |
|--------|------|------|-----|------|------|-----|------|------|------|
| Temp | 62 | 73 | 78 | 82 | 85 | 82 | 81 | 73 | 77 |
| Secchi | 50 | 95 | 77 | 47 | | 72 | 65 | 99 | 70 |
| TP | 39 | 17 | 14 | 16 | | 12 | 13 | 10 | 16 |
| TN | 710 | 580 | 430 | 380 | | 350 | 310 | 270 | 411 |
| CHL | 4.0 | 1.4 | 3.6 | 7.3 | | 3.7 | 4.4 | 2.6 | 3.5 |
| ISS | 3.9 | 1.9 | 2.0 | 3.4 | | 1.6 | 2.6 | 1.1 | 2.2 |

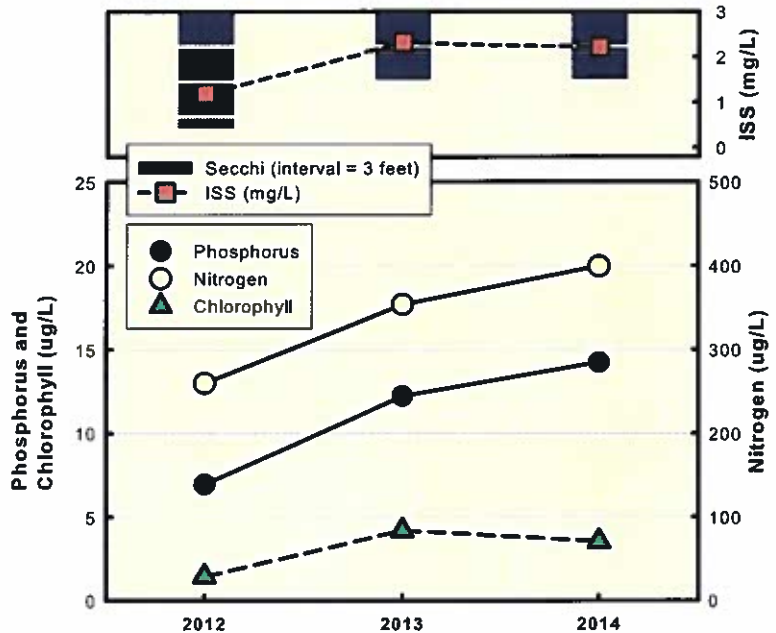
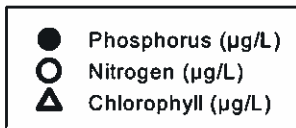
2014 GRAPH

Graph displays all 2013 data



TREND GRAPH

Graph displays geometric mean values for data collected between May 15 and September 15.





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Monday, June 01, 2015

Hello everyone,

Here is your "Chlorophyll Report Card." With this you'll see how your duplicate chlorophyll filters compared to one another. There were 813 pairs of chlorophyll filters processed during the 2014 LMVP sampling season. As a quality control measure and to provide feedback to volunteers on their technique, the LMVP measures how well filter pairs compare to one another. In theory, perfect technique should result in identical readings for each of the filters in a pair. In reality, it is nearly impossible to get the same number of microscopic algae on each filter, so some variation between filters is acceptable. This is why filters differing by up to 10% are still considered "Good."

In 2014, nearly 97% of samples were either "Excellent" or "Good" and fewer than 1% of filter pairs differed enough to be considered "Poor." With these scores, 2014 is now the best year to date for volunteer precision.

Great job!

| | Excellent | Good | Fair | Poor |
|--------------------|-----------|-------|--------|------|
| Percent Difference | 0-5% | 5-10% | 10-15% | >15% |

When both filters have less than 5 µg/L of chlorophyll, percent difference is calculated:

$$[(\text{max value} - \text{min value}) \div 5] * 100$$

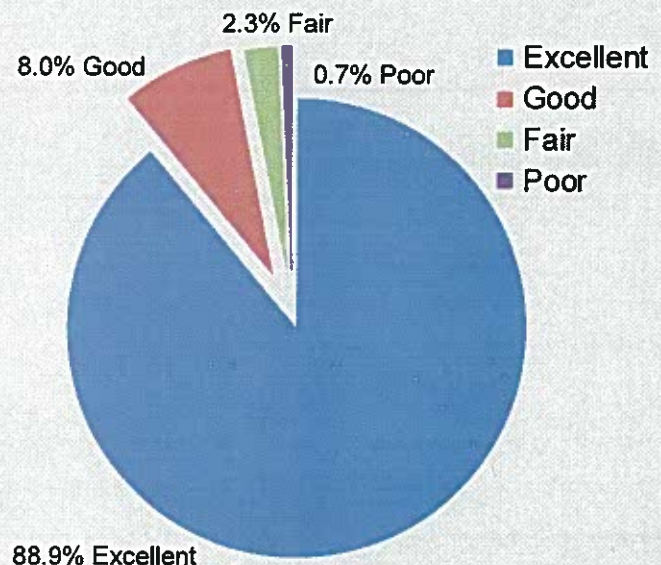
If at least one filter has 5 µg/L or more of chlorophyll:

$$[(\text{max value} - \text{min value}) + \text{max value}] * 100$$

Ways to improve your score:

1. Shake the sample bottle between filters to evenly distribute the algae (and nutrients and suspended sediments) throughout the bottle
2. Double check the volume in the graduated cylinder and record that volume on both the data sheet and the filter house
3. Shake the sample bottle!
4. SHAKE the sample bottle!

All 2014 LMVP Chlorophyll Filter Pairs





Derek Weber

E=Excellent; G=Good; F=Fair; P=Poor

| | Date | Filter 1 | Filter 2 | Rating |
|--------|-------------|-----------------|-----------------|---------------|
| Riss 1 | 4/26/2014 | 4.1 | 3.9 | E |
| Riss 1 | 5/18/2014 | 1.3 | 1.4 | E |
| Riss 1 | 6/8/2014 | 3.6 | 3.6 | E |
| Riss 1 | 6/29/2014 | 7.2 | 7.3 | E |
| Riss 1 | 8/9/2014 | 3.7 | 3.7 | E |
| Riss 1 | 8/30/2014 | 4.4 | 4.5 | E |
| Riss 1 | 9/21/2014 | 2.5 | 2.6 | E |