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Dean Hintzman
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May 1st, 2017

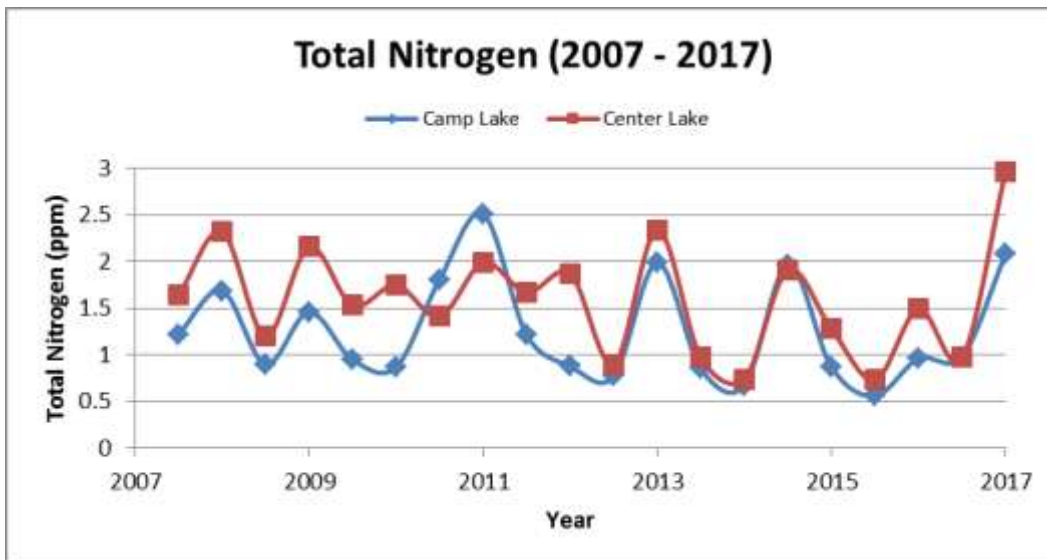
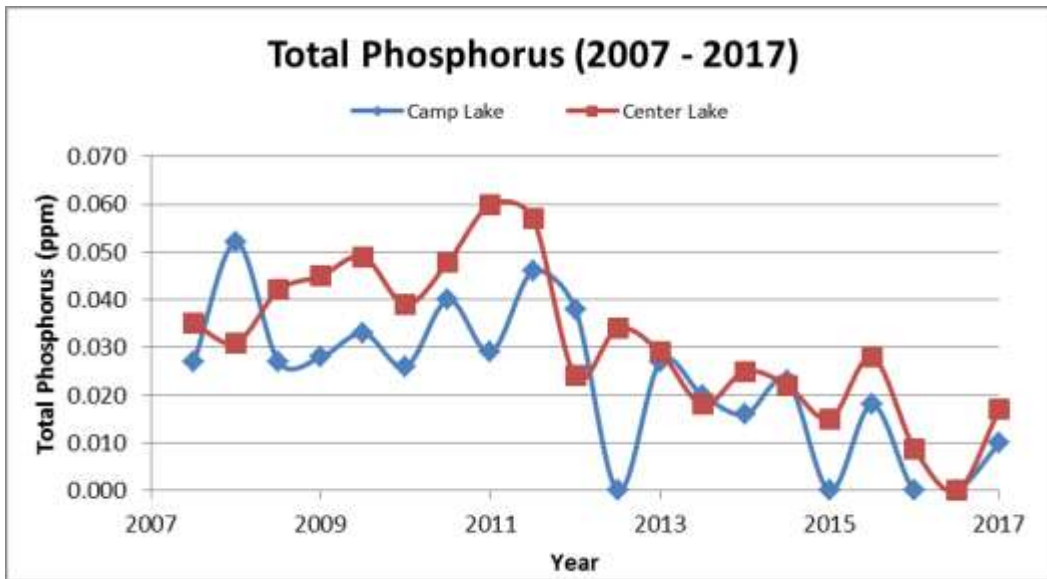
Dear Mr. Hintzman,

The attached laboratory results reflect data from our SPRING sampling efforts on Camp and Center Lakes.

The following parameters were analyzed: pH, Conductivity, Alkalinity, Total Hardness, Calcium Hardness, Reactive Phosphorus, Total Phosphorus, Ammonia, NO₂+NO₃, Total Kjeldahl Nitrogen, Chloride, Sulfate, Sodium, Potassium, Turbidity and Color. Since we've previously sent out detailed reports, I've only interpreted each component and commented where appropriate.

<u>ANALYSIS</u>	<u>CAMP</u>	<u>CENTER</u>
pH	NORMAL	NORMAL
Conductivity	NORMAL	NORMAL
Alkalinity	NORMAL	NORMAL
Total Hardness	VERY HARD	VERY HARD
Calcium Hardness	NORMAL	NORMAL
Reactive Phosphorus	LOW (Good)	LOW (Good)
Total Phosphorus	LOW (Good)	NORMAL
Ammonia Nitrogen (NH ₃)	LOW (Good)	NORMAL
Nitrite plus Nitrate Nitrogen (NO ₂ +NO ₃)	NORMAL	NORMAL
Total Kjeldahl Nitrogen (TKN)	ELEVATED	ELEVATED
Chloride (Cl)	NORMAL	NORMAL
Sulfate (SO ₄)	NORMAL	NORMAL
Sodium (Na)	NORMAL	NORMAL
Potassium (K)	NORMAL	NORMAL
Turbidity	NORMAL	NORMAL
Color	N/A	N/A

Overall, the water quality in both lakes looks good but we did see small increases in total phosphorus and more significant increases in TKN. Below I have included the graphs looking at total phosphorus and total nitrogen over the past 11 seasons.



I'm a little nervous that the higher nutrient levels, specifically nitrogen, could lead to an increase in blue-green algae blooms this summer. It's something you'll have to keep a close eye on. If you have any questions or concerns don't hesitate to contact me.

Sincerely,

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