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Dean Hintzman
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November 27th, 2017

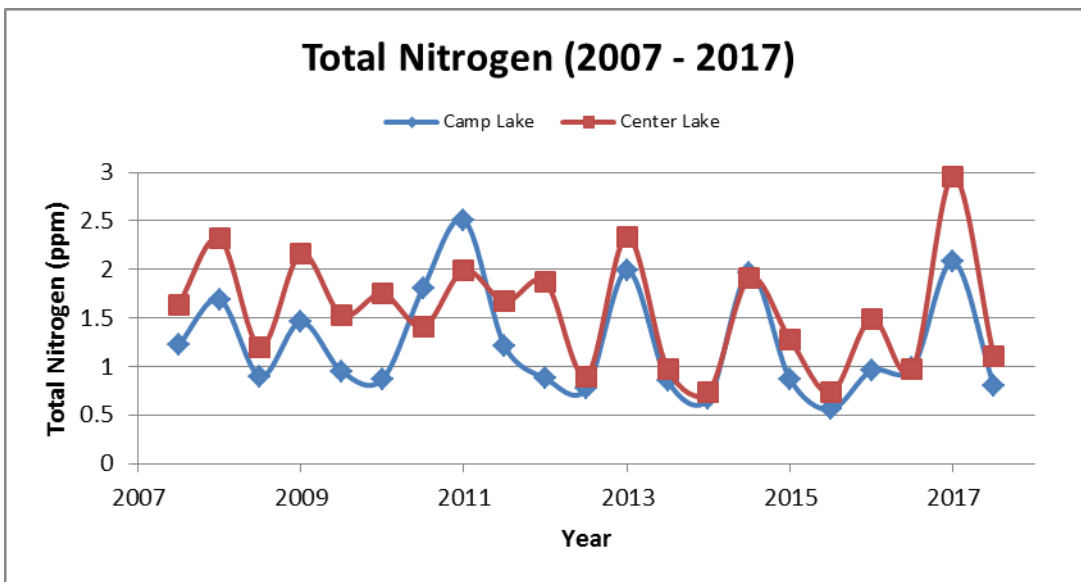
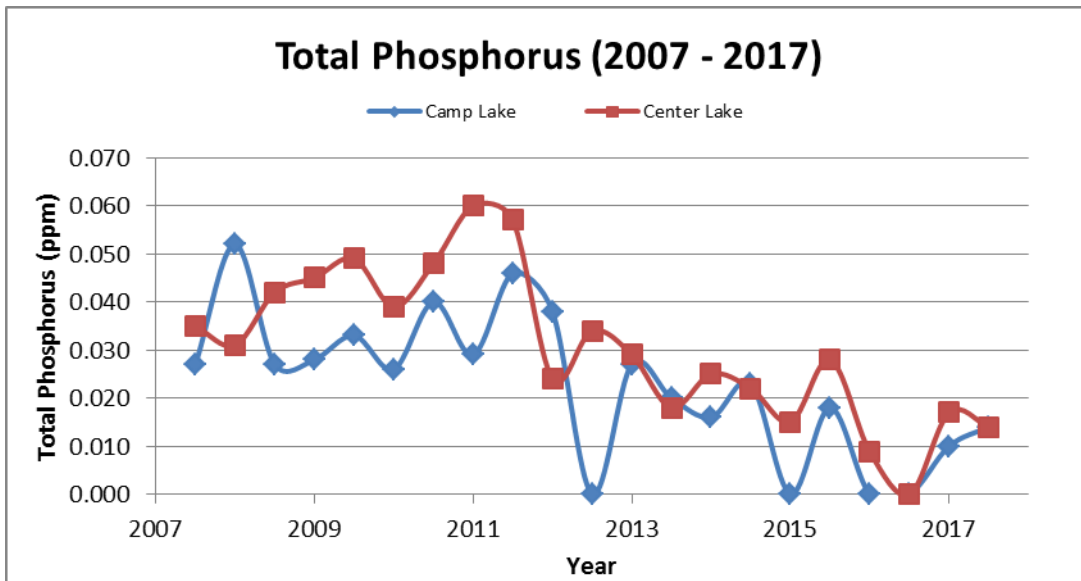
Dear Mr. Hintzman,

The attached laboratory results reflect data from our FALL 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	MOD HARD	VERY HARD
Calcium Hardness	NORMAL	NORMAL
Reactive Phosphorus	LOW (Good)	LOW (Good)
Total Phosphorus	LOW (Good)	LOW (Good)
Ammonia Nitrogen (NH ₃)	NORMAL	ELEVATED
Nitrite plus Nitrate Nitrogen (NO ₂ +NO ₃)	LOW (Good)	LOW (Good)
Total Kjeldahl Nitrogen (TKN)	NORMAL	NORMAL
Chloride (Cl)	ELEVATED	NORMAL
Sulfate (SO ₄)	NORMAL	NORMAL
Sodium (Na)	NORMAL	NORMAL
Potassium (K)	NORMAL	ELEVATED
Turbidity	NORMAL	NORMAL
Color	NORMAL	NORMAL

Overall, the water quality in both lakes looks good with phosphorus remaining constant and nitrogen showing a significant drop. This is actually a bit surprising given the large rain events and flooding from this season. Below I have included the graphs looking at total phosphorus and total nitrogen over the past 11 seasons.



If you have any questions or concerns don't hesitate to contact me.

Sincerely,

Jeff Stelzer – Biologist
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