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**To: Members of the Watchic Lake Association**  
**From: Eben Joslyn, Volunteer Lake Monitor/Water Quality Committee**  
**Subject: Current Lake Water Quality Status (Spring – Summer 2015)**

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The purpose of this letter is to discuss with you the current state of the lake, compare this with previous years, and provide some insight into how we can all continue to ensure that water quality will remain in a positive state.

Based on observations made throughout the spring season and into the summer, overall lake water quality remained consistent. The average depth of clarity has been between 3.4 and 4.6-meters, based on Secchi disk readings. The range of readings collected this year has been typical compared to previous years. The lake continues to support a diverse and apparently healthy ecosystem that included a variety of birds, fish and other wildlife. The summer weather has been relatively dry and kept lake water levels consistent, which has minimized shoreline erosion and the potential for impacts from run-off.

In June, lake water samples were collected from various locations within the lake and analyzed by Katahdin Laboratories for the presence of coliform bacteria. The results (from 3.1 coliform forming unit (cfu)/100mL to 21.8 cfu/100mL) were well below the maximum allowable density of 235 cfu/100mL. Additional samples, from around the lake, were collected and analyzed for nitrogen and phosphorus, which are common constituents of run-off into the lake. Total nitrogen and phosphorus results remain very low, and similar to prior year's results.

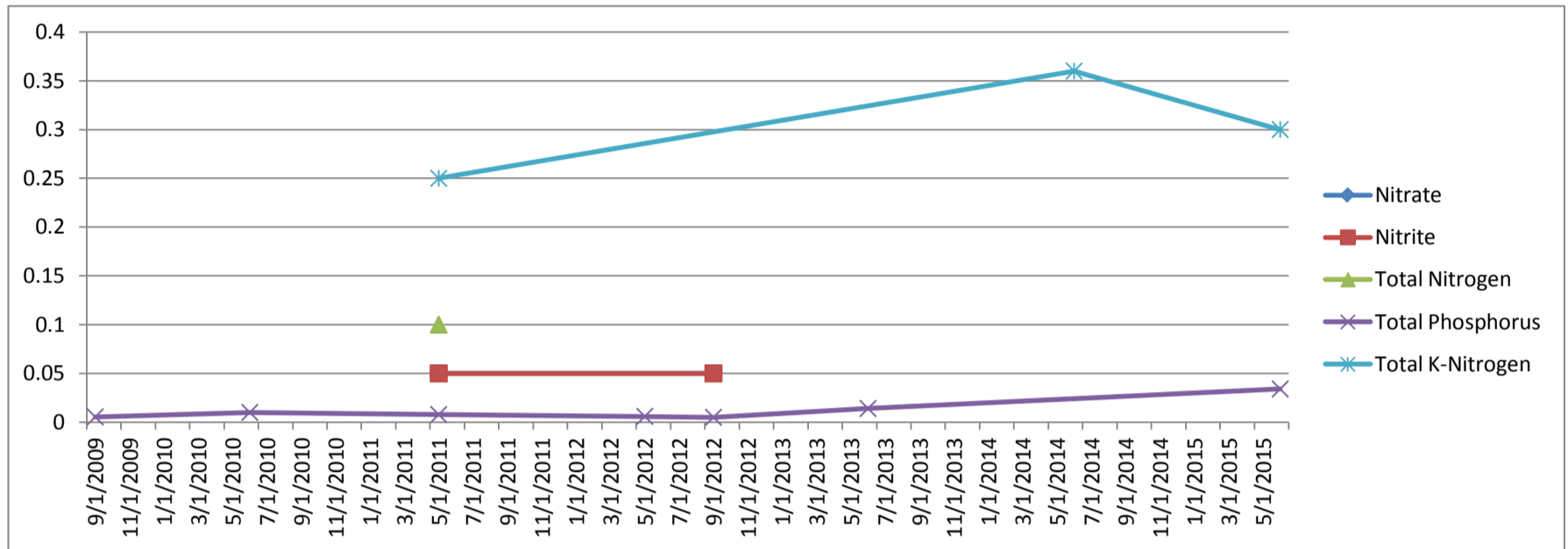
As has been noted in prior reports, the lake's water quality is in a favorable condition and is supporting a diverse eco-system. The quality of the lake's water has been evident by the variety and number of aquatic, amphibian, and avian species that call Watchic Lake home. It remains the responsibility of landowners within the Watchic Lake watershed, and those who enjoy recreational activities on the lake, to ensure their activities do not harm the lake's water quality.



As always, I appreciate any help that others wish to give in ensuring the preservation of Watchic Lake and I am more than happy to help others find ways to do their part in this as well. Please feel free to contact me by phone at (207) 838-5557 or by e-mail at: [ejoslyn@gmail.com](mailto:ejoslyn@gmail.com). Thank you and I look forward to seeing you all on the lake.

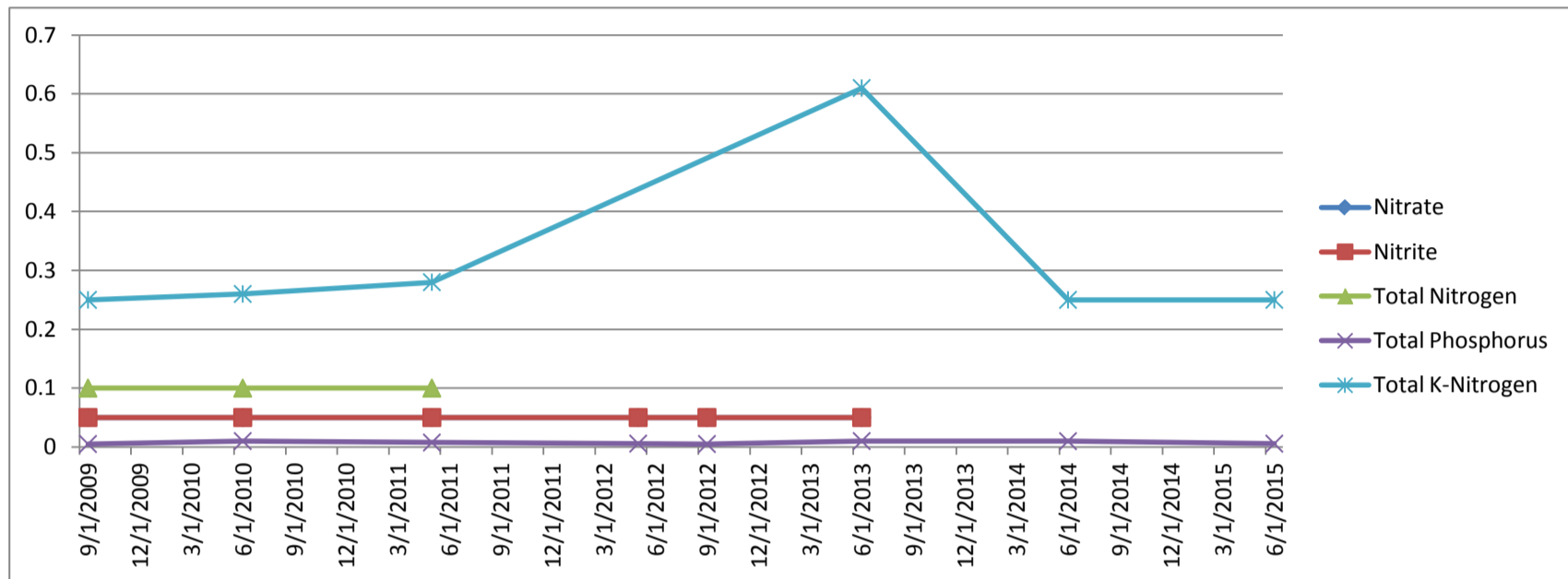
Deep

| Sample Date | Nitrate | Nitrite | Total Nitrogen | Total Phosphorus | Total K-Nitrogen | Total Coliform |
|-------------|---------|---------|----------------|------------------|------------------|----------------|
| 9/23/2009   |         |         |                | 0.0054           |                  | <2             |
| 6/20/2010   |         |         |                | 0.01             |                  | 2              |
| 5/14/2011   | 0.05    | 0.05    | 0.1            | 0.0078           | 0.25             | <1             |
| 5/28/2012   |         |         |                | 0.0059           |                  | 5.2            |
| 9/23/2012   | 0.05    | 0.05    |                | 0.005            |                  | 5.2            |
| 6/9/2013    |         |         |                | 0.014            |                  | 2              |
| 6/15/2014   |         |         |                |                  | 0.36             | 3.1            |
| 6/7/2015    |         |         |                | 0.034            | 0.3              | 4.1            |

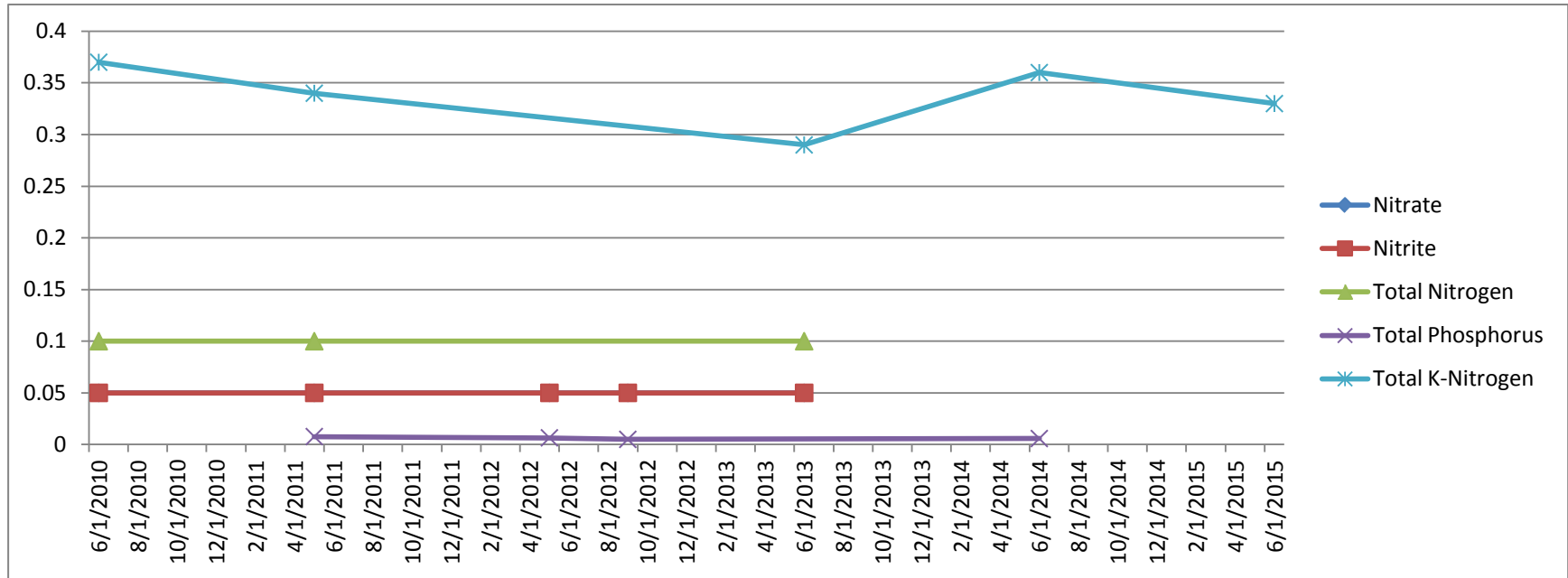


Dam

| Sample Date | Nitrate | Nitrite | Total Nitrogen | Total Phosphorus | Total K-Nitrogen | Total Coliform |
|-------------|---------|---------|----------------|------------------|------------------|----------------|
| 9/23/2009   | 0.05    | 0.05    | 0.1            | 0.005            | 0.25             | 6              |
| 6/20/2010   | 0.05    | 0.05    | 0.1            | 0.01             | 0.26             | 2              |
| 5/14/2011   | 0.05    | 0.05    | 0.1            | 0.0075           | 0.28             | 1              |
| 5/28/2012   | 0.05    | 0.05    |                | 0.0057           |                  | 6.3            |
| 9/23/2012   | 0.05    | 0.05    |                | 0.005            |                  | 7.5            |
| 6/9/2013    | 0.05    | 0.05    |                | 0.01             | 0.61             | 6.3            |
| 6/15/2014   |         |         |                | 0.0098           | 0.25             | 16.8           |
| 6/7/2015    |         |         |                | 0.0056           | 0.25             | 6.3            |



| Sample Date | Nitrate | Nitrite | Total Nitrogen | Total Phosphorus | Total K-Nitrogen | Total Coliform |
|-------------|---------|---------|----------------|------------------|------------------|----------------|
| 9/23/2009   | 0.05    | 0.05    | 0.1            |                  | 0.25             | <2             |
| 6/20/2010   | 0.05    | 0.05    | 0.1            |                  | 0.37             | <2             |
| 5/14/2011   | 0.05    | 0.05    | 0.1            | 0.0077           | 0.34             | <1             |
| 5/28/2012   | 0.05    | 0.05    |                | 0.0065           |                  | 4.1            |
| 9/23/2012   | 0.05    | 0.05    |                | 0.005            |                  | 9.7            |
| 6/9/2013    | 0.05    | 0.05    | 0.1            |                  | 0.29             | 5.2            |
| 6/15/2014   |         |         |                | 0.0058           | 0.36             | 17.3           |
| 6/7/2015    |         |         |                |                  | 0.33             | 7.5            |



| Sample Date | Nitrate | Nitrite | Total Nitrogen | Total Phosphorus | Total K-Nitrogen | Total Coliform |
|-------------|---------|---------|----------------|------------------|------------------|----------------|
| 9/23/2009   | 0.05    | 0.05    | 0.1            | 0.005            | 0.25             | 10             |
| 6/20/2010   | 0.05    | 0.05    | 0.1            | 0.0084           | 0.38             | 20             |
| 5/14/2011   | 0.05    | 0.05    | 0.1            | 0.0095           | 0.47             | 2              |
| 5/28/2012   | 0.05    | 0.05    |                | 0.0079           |                  | 31.5           |
| 9/23/2012   |         |         |                | 0.005            |                  | 14.6           |
| 6/9/2013    | 0.05    | 0.05    | 0.1            |                  | 0.27             |                |
| 6/15/2014   |         |         |                | 0.0098           | 0.25             |                |
| 6/7/2015    |         |         |                | 0.0087           | 0.39             | 21.8           |

