

The LID board returned to our practice of testing all four major inlets three times during the open water season. Samples were taken April 17<sup>th</sup> with a fairly high stream flow in spite of the lack of snow melt this spring, August 9<sup>th</sup> during low stream flow, and September 25<sup>th</sup> with significant stream flow following heavy rains.

The pH level at all sites was abnormally acidic during the April sampling, but has returned to normal at all sites with the subsequent tests.

At the Silver Bay Road inlet results for the September sampling are not yet available, but the heavy metals testing showed no areas of concern. TSS (total suspended solids) have consistently been above the ecoregion range, but were extremely high in April, but dropped back more to the site's normal level in August. Another area of concern would be the total phosphorus. The past three readings have been in the 85 ug/L range while the ecoregion range should be 20-50 ug/L. If these continue to be that high, the LID board will have to consider examining upstream areas for an explanation.

The second inlet is at the Paradise Shores road (east side of the lake). The TSS for September was high probably due to the heavy stream flow. August readings for total phosphorus (a new high) and for orthophosphorus were significantly higher than in either April or September. Good to see that they returned to normal for the site.

At the inlet on Rognaldson Road (west side of the lake) total phosphorus levels were the highest in the spring which would not be expected. They have remained in acceptable levels since then. TSS was also extremely high in April, but normal in both August and September. Conductivity is always way higher (nearly double) that of the other inlets, but has actually decreased somewhat in 2017 with the lowest ever for that site recorded in September.

Testing of the Nokasippi River is generally done behind the Nokasippi Resort area, but the August test was taken at the culvert on County Road 24 due to the lack of access to get a clearly running sample behind the resort at that time. TSS from September was the only elevated reading - a bit higher than the highest sample we've taken.

#### Future plans:

The LID board feels it is best to continue to sample all four major inlets three times per season. If total phosphorus numbers continue on their trend for Silver Bay inlet, we will first consult with RMB labs to determine if this level of elevation should be a concern. If it is, a physical examination of the area upstream of the lake will need to be done.