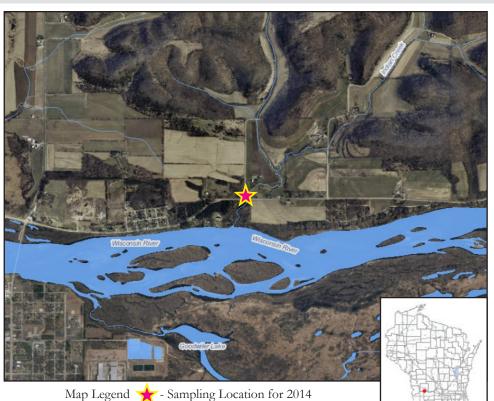
Monitoring Site Information	
SWIMS Station ID	10040127
County	Richland
Watershed	Mill and Indian Creeks
Watershed Area	130.32 sq miles
Total Stream Miles in Watershed	313.19 miles
Downstream Waterbody	Wisconsin River
Volunteer(s)	Maureen van den Bosch
2014 Monitoring Results	
Min TP Value	0.0401 mg/L
Max TP Value	0.0835 mg/L
Median TP Value	0.06615 mg/L
No. Samples > 0.075 r	mg/L 1

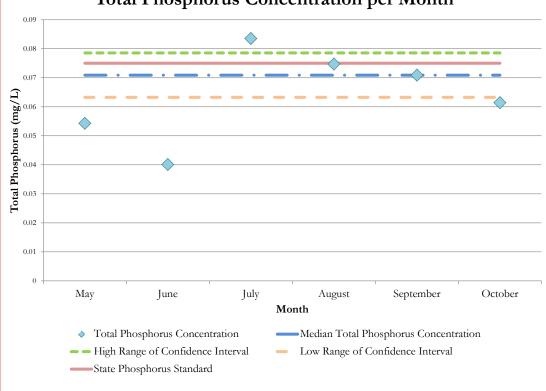


Volunteer Total Phosphorus Monitoring Indian Creek 20m US of STH 60

2014 Monitoring Results

The Indian Creek Watershed Study was a continuation of a DNR watershed study started in 2013. Monitoring from 2013 showed qualitative habitat indices for Indian Creek in poor condition as well as for an unnamed tributary to Indian Creek. Both streams have connected ponds on tributaries, and all other tributaries are now grassed waterways with intermittent flow. Continued monitoring in 2014 was conducted to determine if the streams should be listed as impaired, and for watershed planning.

Watch Waters



Total Phosphorus Concentration per Month

Why Phosphorus?

Phosphorus is an essential nutrient responsible for plant growth, but it is also the most visible, widespread water pollutant in Wisconsin lakes. Small increases in phosphorus levels in a lake can bring about substantial increases in aquatic plant and algae growth, which in turn can reduce the recreational use and aquatic biodiversity of said lake. When the excess plants die and are decomposed, oxygen levels in the water drop dramatically which can lead to fish kills.

Additionally, one of the most common impairments in Wisconsin's streams is excess sediments that cover stream bottoms. Since phosphorus moves attached to sediments, it is intimately connected with this source of pollution in our streams. Phosphorus originates naturally from rocks, but its major sources in streams and lakes today are usually associated with human activities: soil erosion, human and animal wastes, septic systems, and runoff from farmland or lawns. Phosphorus-containing contaminants from urban streets and parking lots such as food waste, detergents, and paper products are also potential sources of phosphorus pollution from the surrounding landscape. The impact that phosphorus can have in streams is less apparent than in lakes due to the overall movement of water, but in areas with slow velocity, where sediment can settle and deposit along the bottom substrate, algae blooms can result.

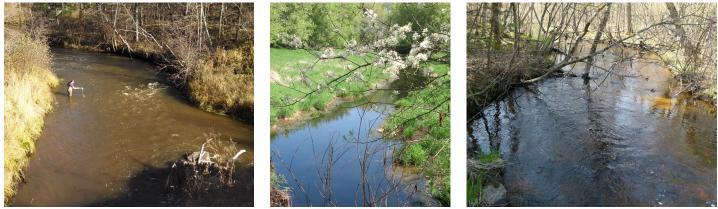


Photo credits to Matt Berg, David Seligman, Linda Warren, and Adrian Konell

Volunteer Monitoring Protocol

To assess in stream phosphorus levels, WAV volunteers collected water samples that were analyzed for total phosphorus (TP) at the State Lab of Hygiene during the growing season (May through October). Following Wisconsin Department of Natural Resources (WDNR) methods, six phosphorus water samples were collected at each monitoring site - one per month for each of the six months during the growing season, The water samples were collected approximately 30 days apart and no samples were collected within 15 days of one another. Total phosphorus impairment is assessed using the criteria in the table below.



The total phosphorus criteria is exceeded if the lower confidence limit of the sample median exceeds the state total phosphorus criteria of 0.075 mg/L.



The site is classified as Watch Waters if the median total phosphorus concentration falls within the confidence limit.

Water Action Volunteers



The total phosphorus criteria is met if the upper limit of the confidence interval does not exceed the state total phosphorus criteria of 0.075 mg/L.





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