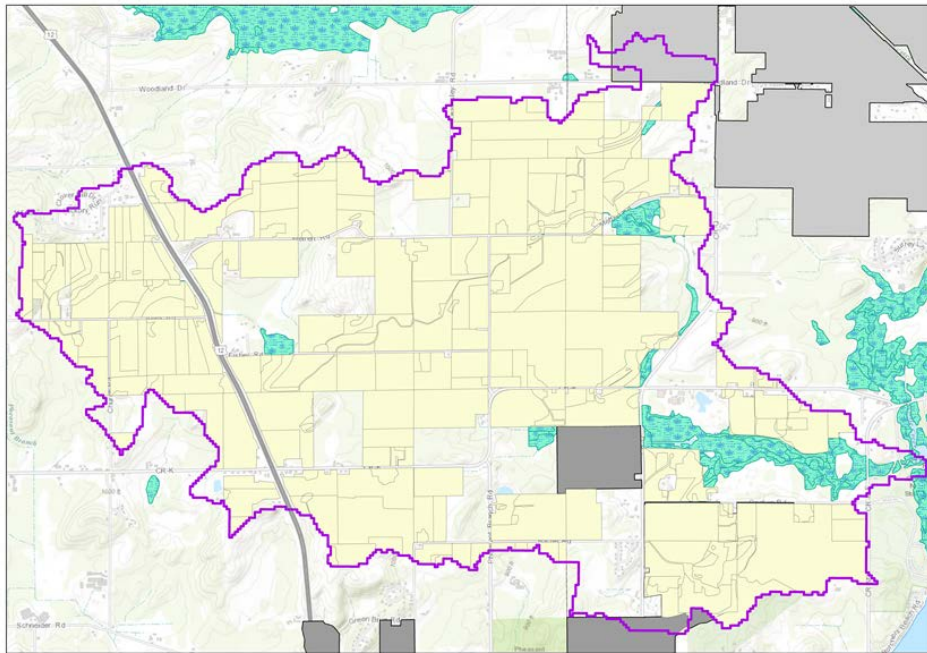
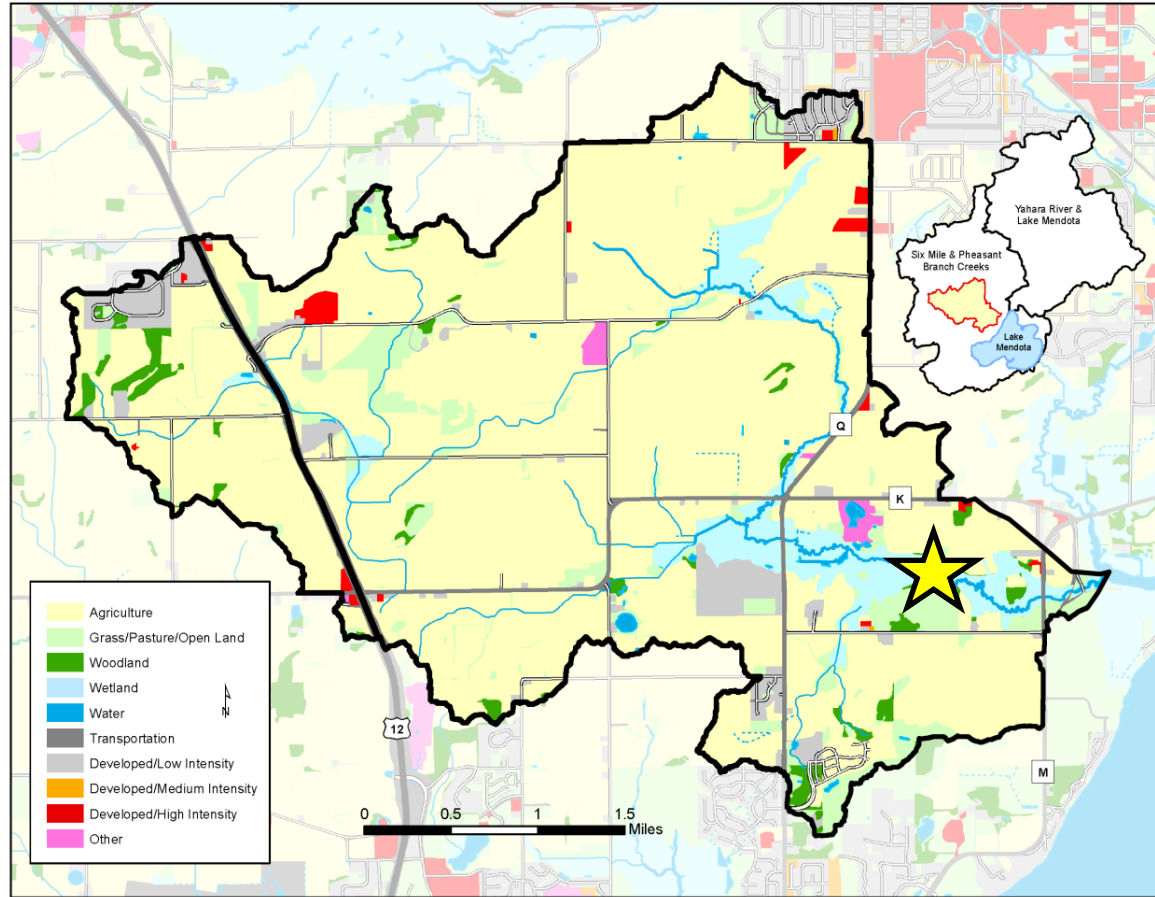


# Conservation in Dorn Creek

- Conservation practices implemented on over 90% of fields
- Over 60% of livestock facilities have adopted conservation practices to reduce phosphorus
- Nutrient management plans have been completed for 75% of cropland acres
- Average soil loss from cropland fields is reduced to more than half of the tolerable soil loss standard. The current soil loss is 1.8 versus tolerable loss of 4 tons/acre/year
- Average phosphorus (P) index from agriculture fields is half the state recommended standard. Current P index is 3 compared standard of 6 pounds/acre/year



# Dorn Creek Legacy P Study Site



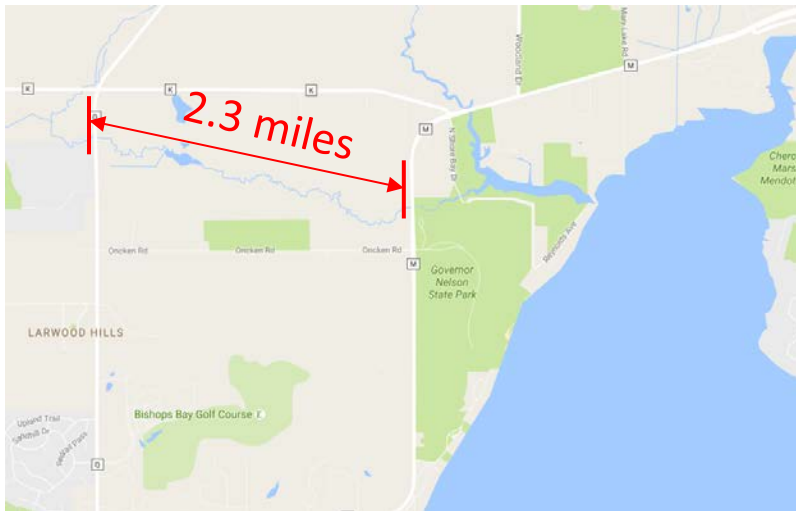
# Phosphorus in Stream Sediments

## Source Comparison



The Phosphorus concentrations in stream sediments were about seven times more concentrated than adjacent farm fields.

## Phosphorus in the Stream



Within a 2.3 mile stretch of Dorn Creek there is an estimated 75,000 pounds of Phosphorus.

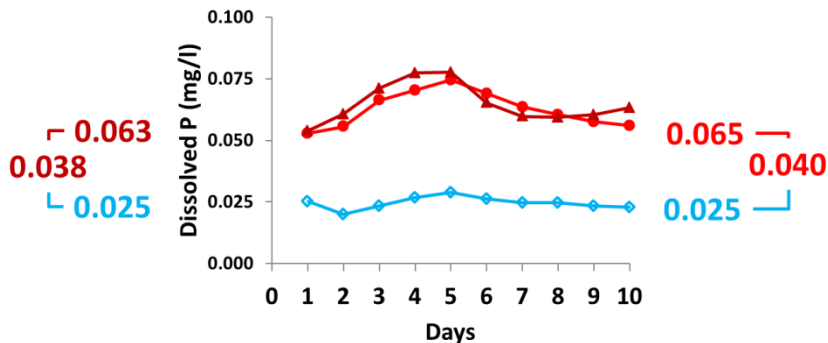
# Phosphorus Release

## Laboratory Testing



The stream sediments released Phosphorus in the water more than half of the state water quality criterion (0.075 mg/l).

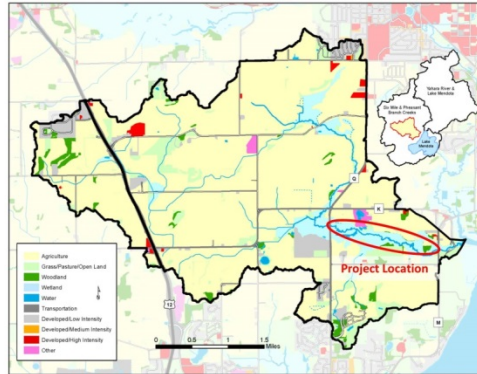
## Time of Water Quality Impact



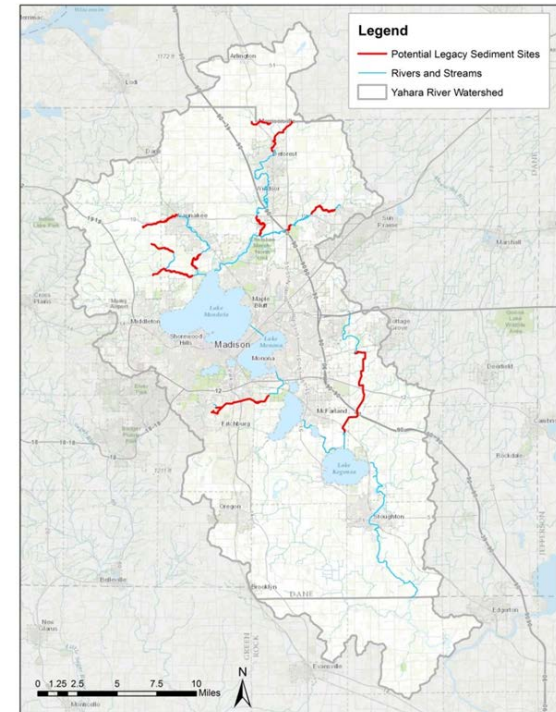
The stream bottom sediments will continue to release Phosphorus into the water for at least the next 60 years.

# 2017 Budget

**Phase 1: Remove 2.3 miles of P rich stream sediments in Dorn Creek**



**Phase 2: Prioritize and remove 30 miles of P rich stream sediments in the Yahara Watershed**



**Phase 3: Monitor improvements to water quality, wildlife/plant diversity, and fish spawning/habitat.**