



LAND & WATER
RESOURCES
DEPARTMENT

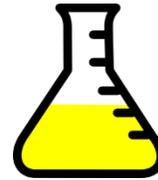
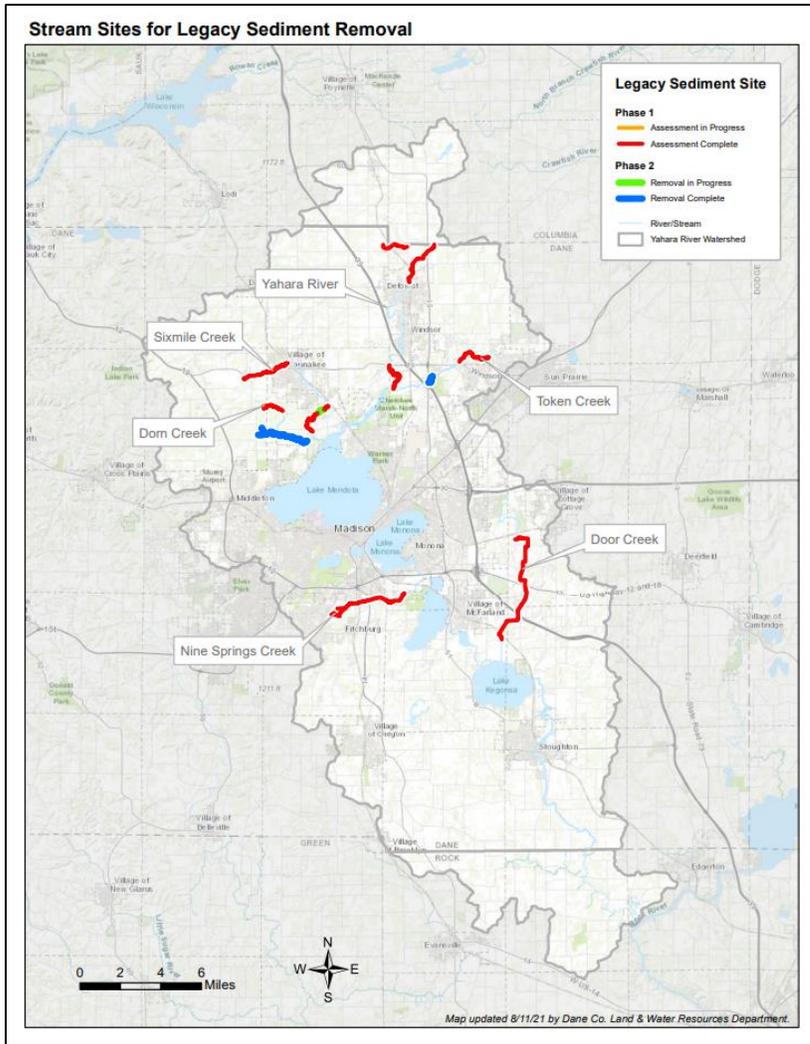
Yahara Legacy Sediment Removal

Kyle Minks, Watershed Manager

May 4, 2022



Two Phase Project



Phase 1: Assessment

Identify stream reaches, conduct field investigation, and evaluate results

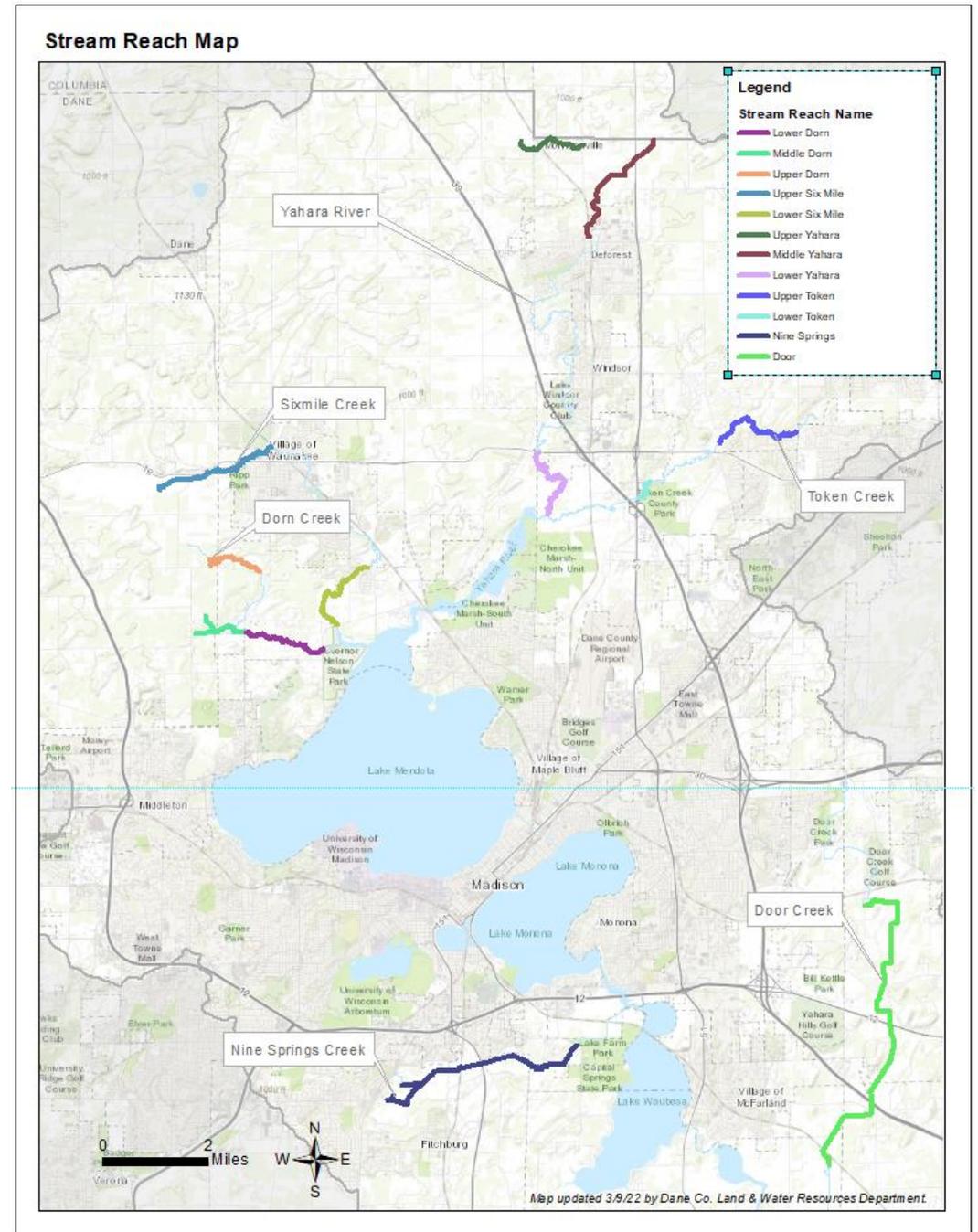


Phase 2: Removal

Develop construction documents, secure permits, and remove & stabilize sediments

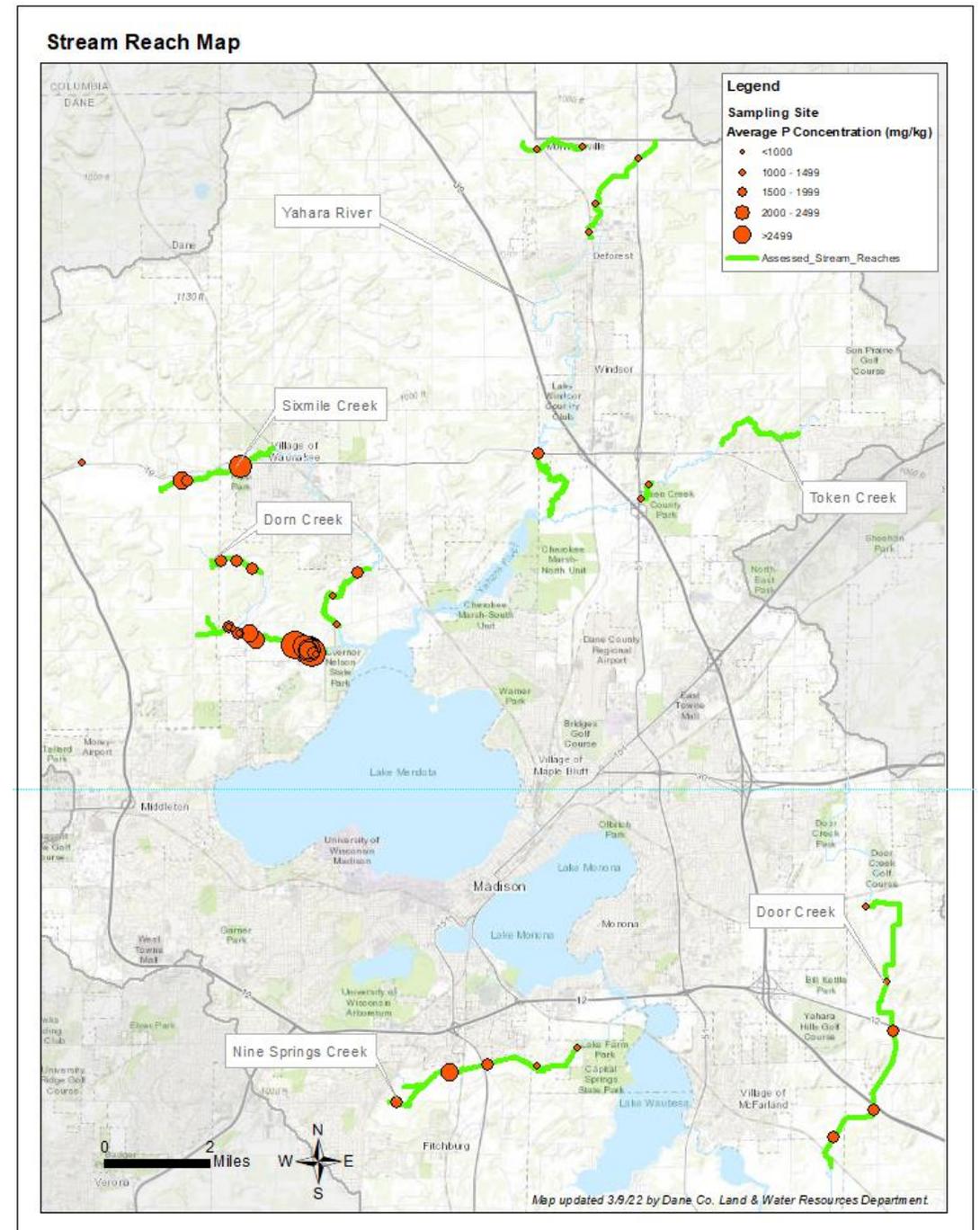
Assessment

- Six Streams
- 12 reaches
- 46 sites
- Over 300 samples



Results

- Sediment P concentration
 - Average range - 3,050 to 792 ppm
- Sediment depth
 - Average range - 11 to 44 inches
- Average P diffusion
 - 0.075 mg/l
- Average age
 - 1' = 25 years old
 - 2' = 75 years old



Removal

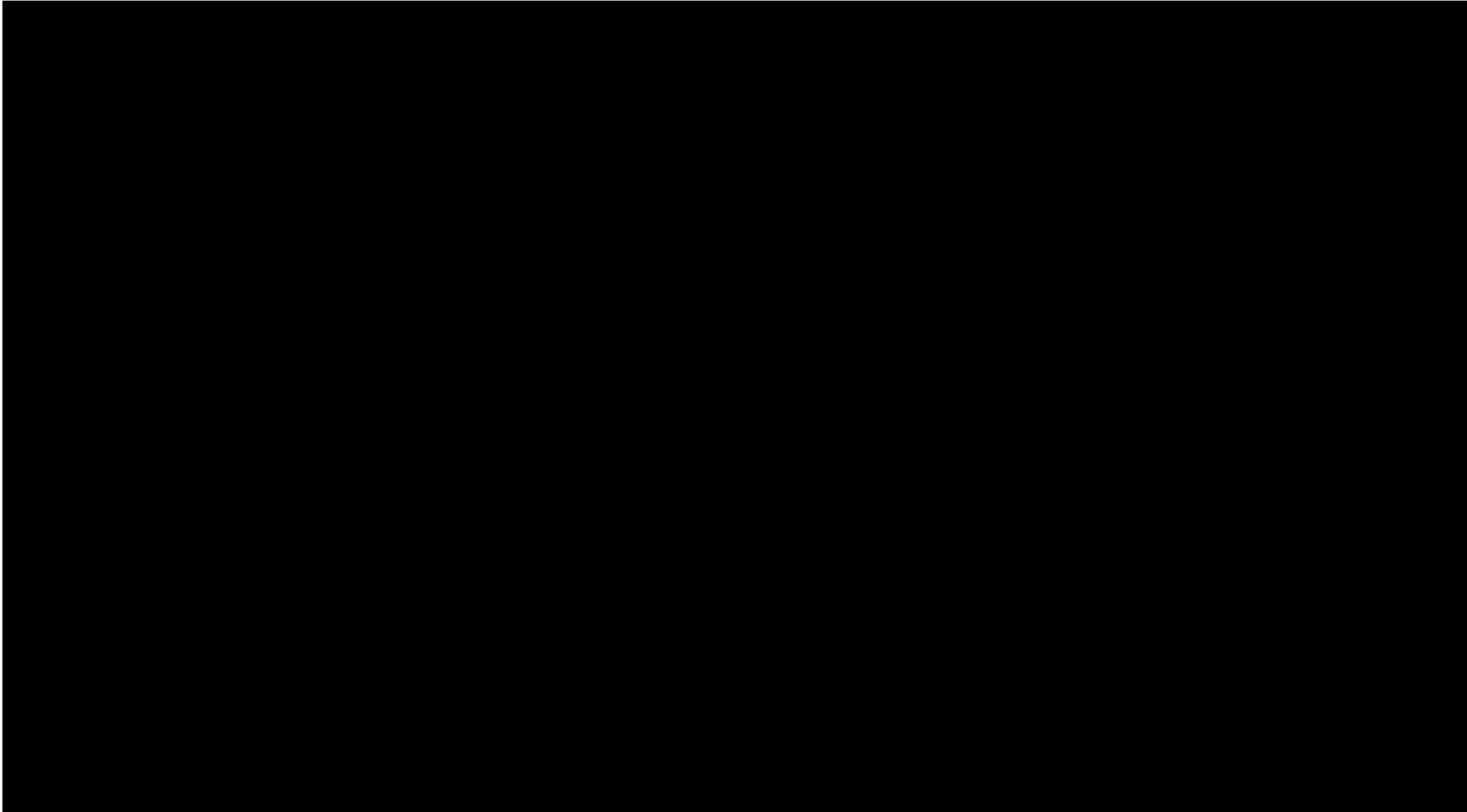


Dorn Creek

-  **Restore**
Stream channel to its original meander
-  **Reclaim**
Historical waste disposal site
-  **Rehabilitate**
Water quality and aquatic habitat



Dorn Creek Video



Token Creek



Restore
Aquatic habitat



Rehabilitate
Water quality



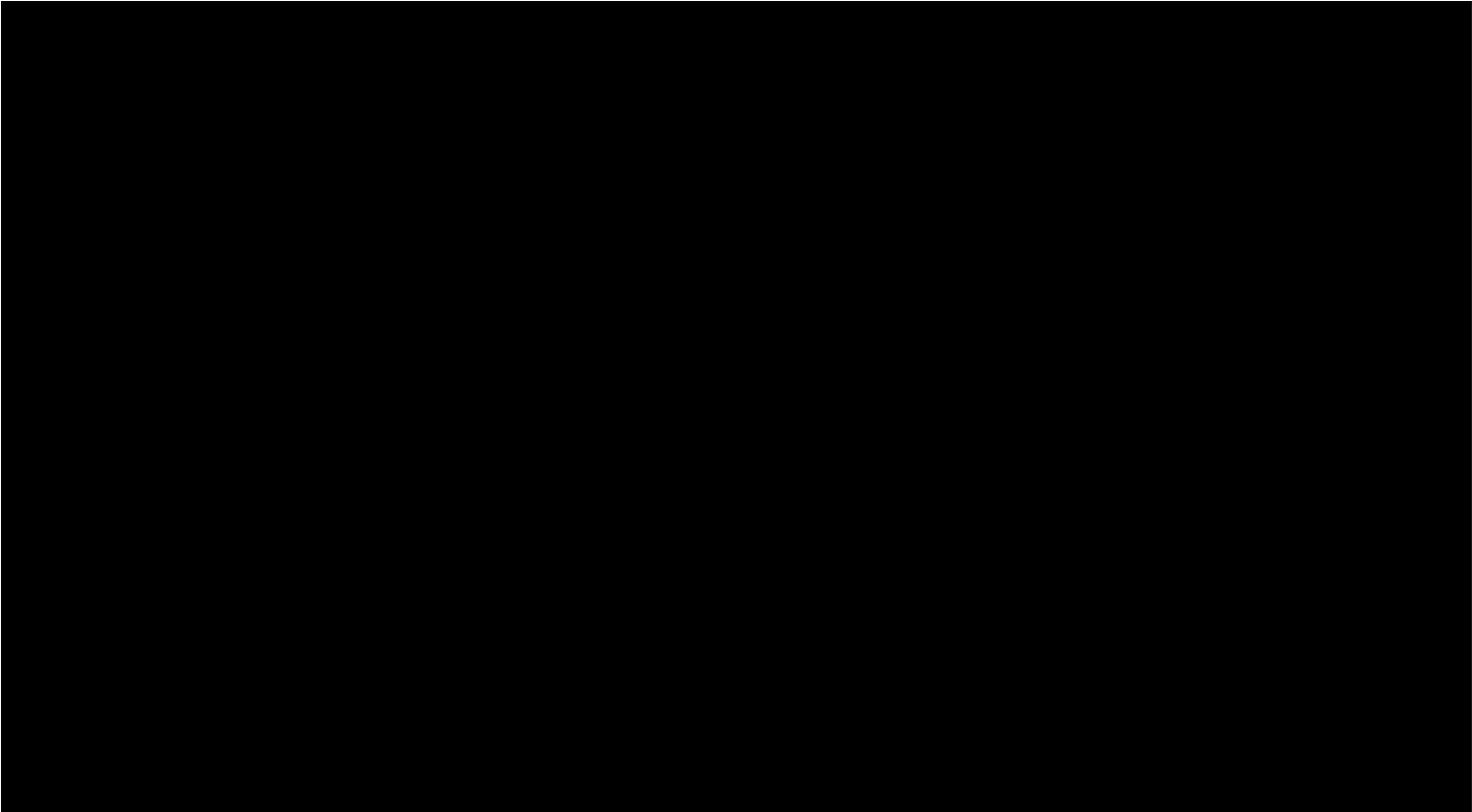
Enhance
Recreational opportunities



Token Creek Restoration and Sediment Removal



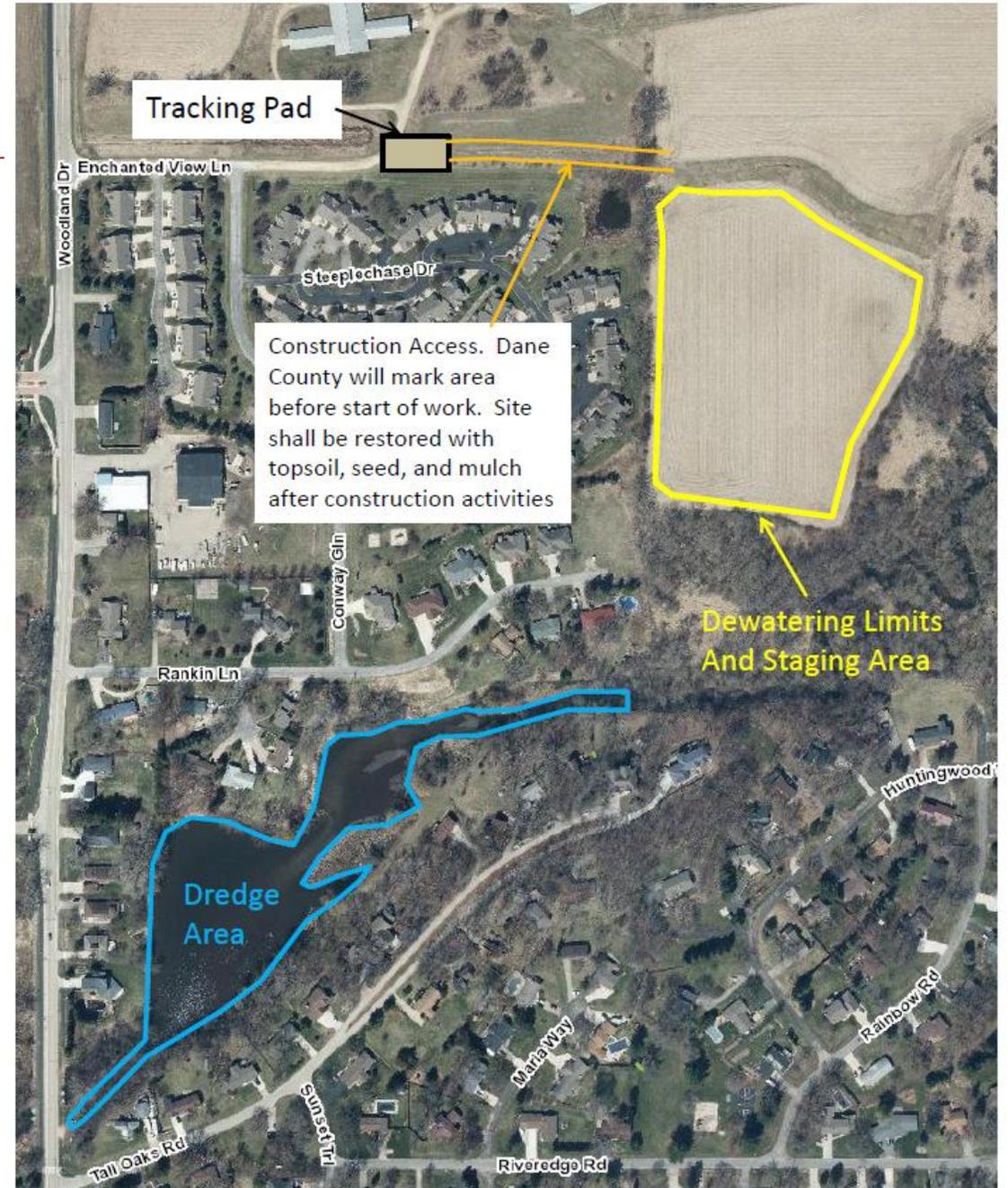
Token Creek Video



Six Mile Creek (Mary Lake)



Rehabilitate
Water quality



Removal



Dorn Creek - Complete

Removed

- 11,000 tons of sediment
- 75,000 pound of phosphorus



Token Creek - Complete

Removed

- 20,000 tons of sediment
- 30,000 pound of phosphorus

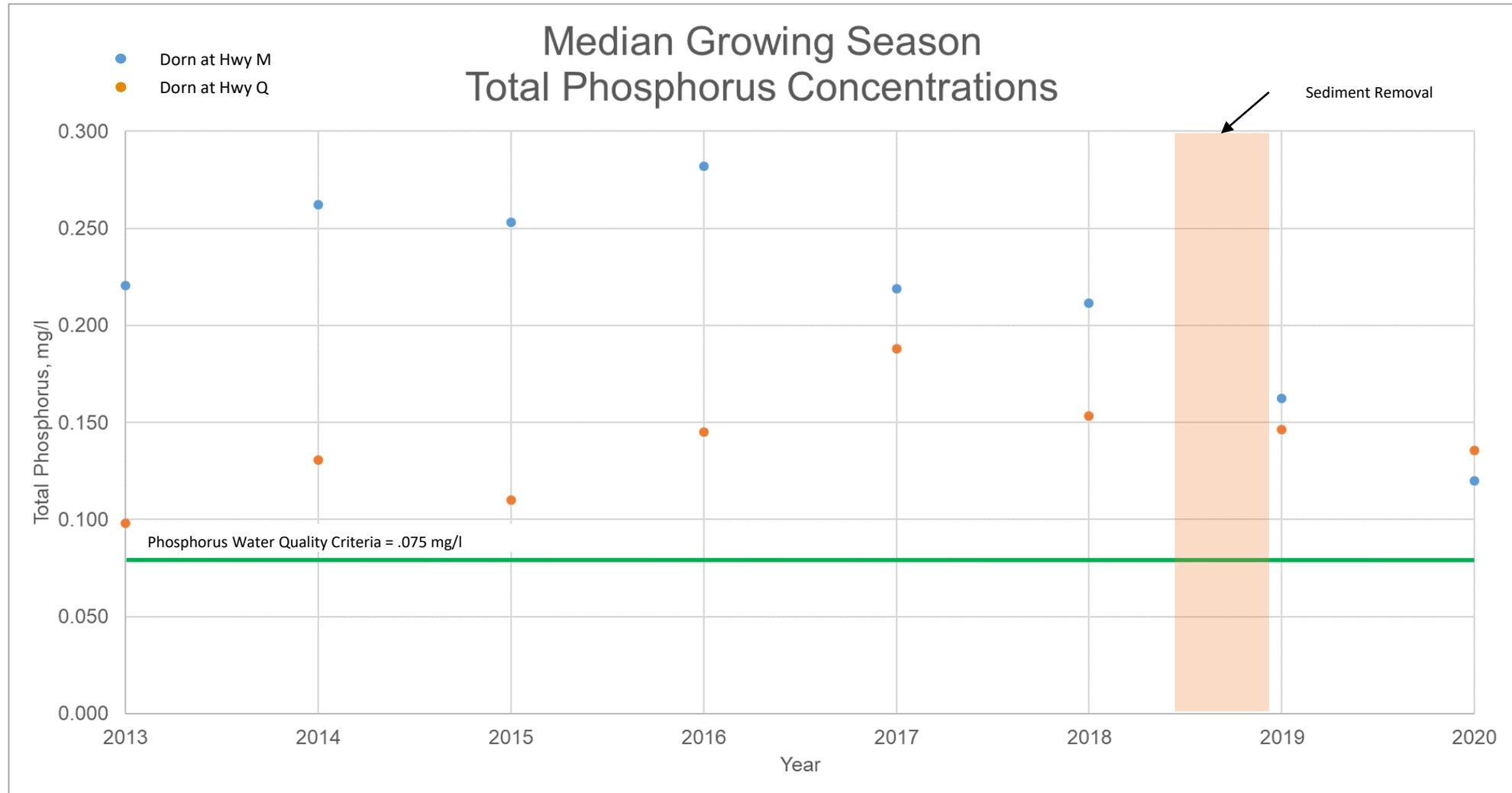


Six Mile Creek (Mary Lake) – In Progress

Estimated removal

- 25,000 tons of sediment
- 65,000 pound of phosphorus

Water Quality Improvement



What's Next?



Six Mile Creek (Mary Lake)

Finish construction of dewatering areas and remove legacy sediments



Door Creek

Evaluate and establish restoration goals, develop design plans, and secure permitting



Monitoring

Evaluate water quality data and investigate newly deposited sediments



THANK YOU

Courtesy Shan Bartus



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Contact Information

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Join us!

