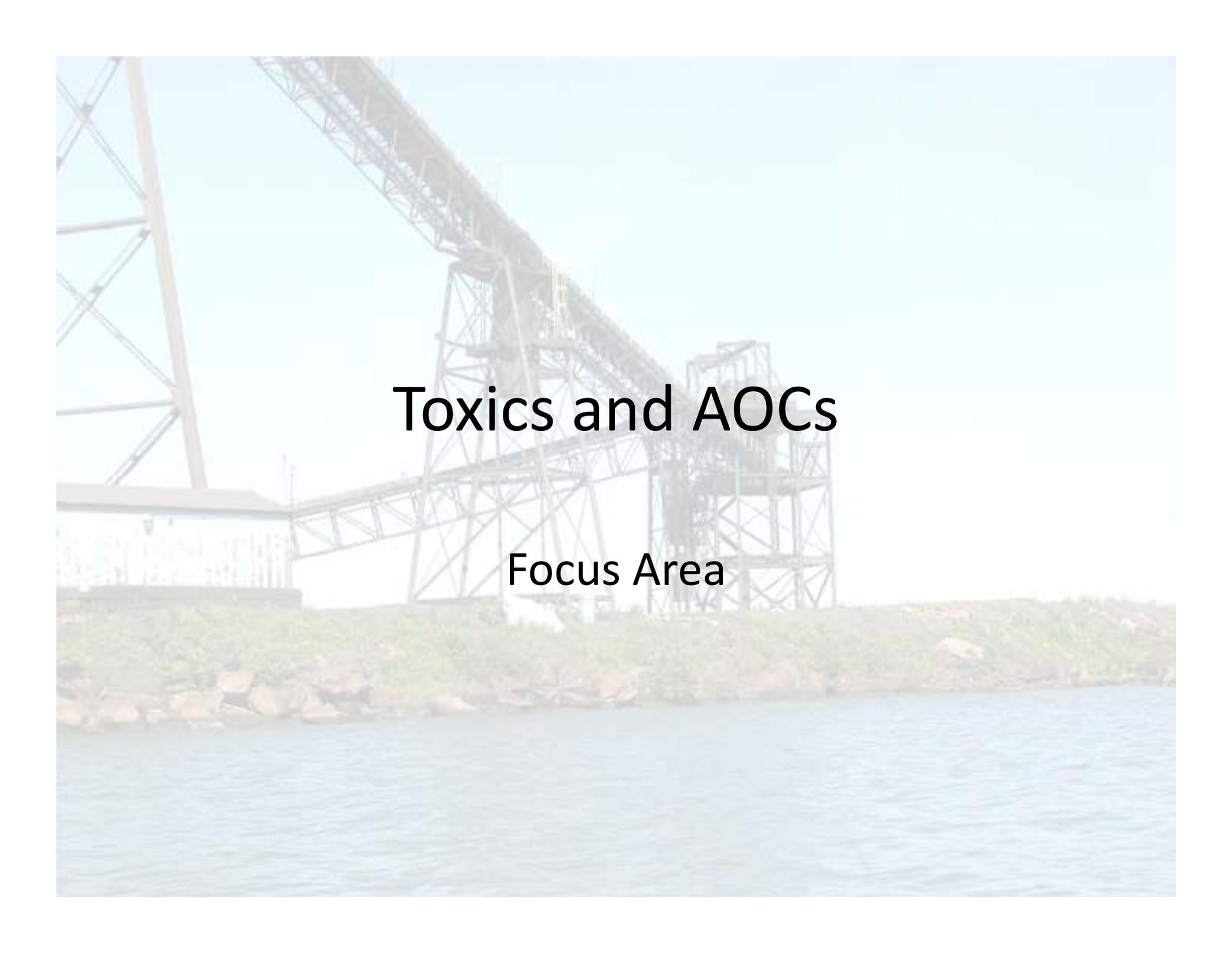


# Toxics and AOCs

Focus Area



# Toxics and AOCs

Focus Area

# Invasive Plant Prevention and Control Grand River Watershed

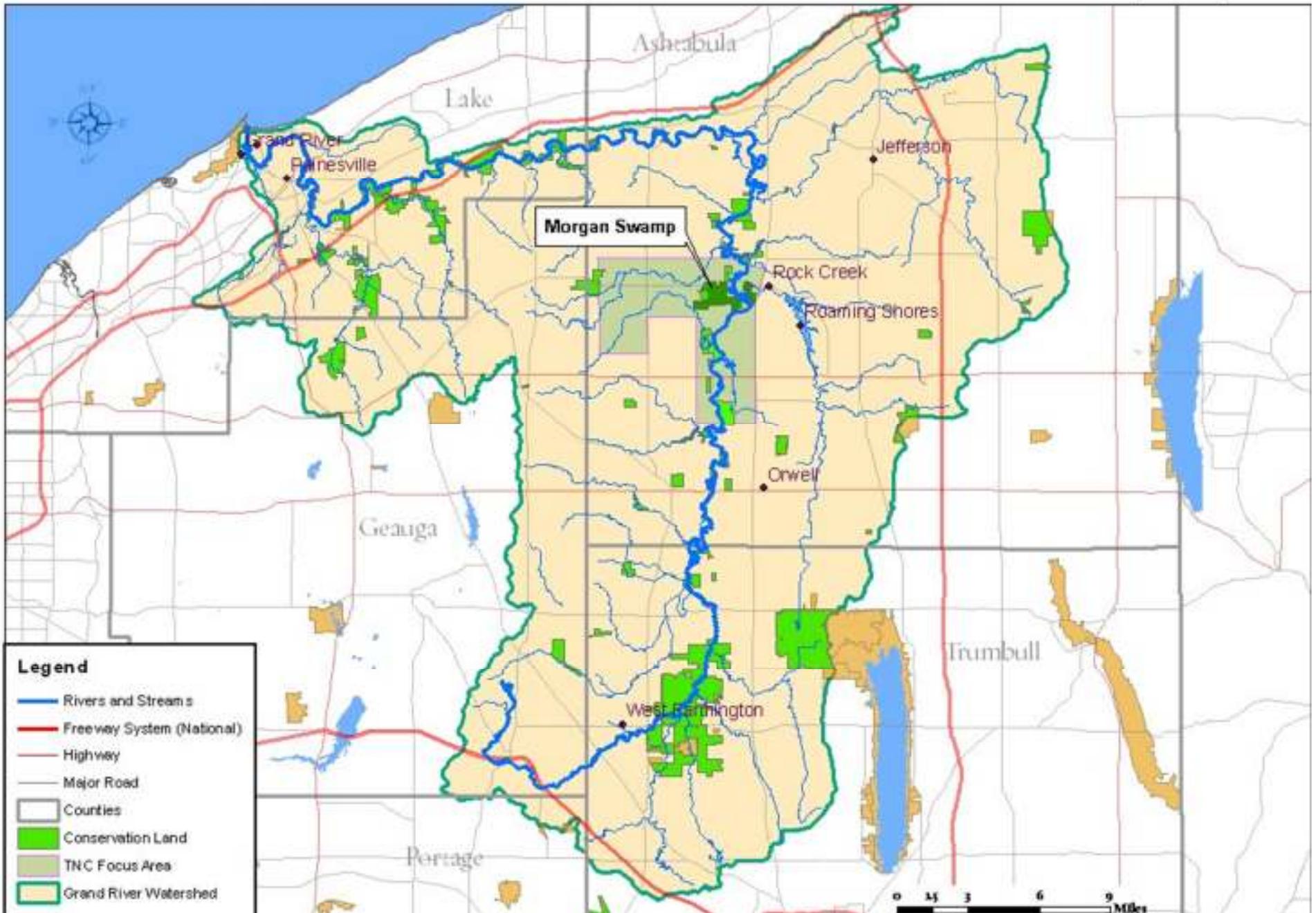


- **Funding: \$850,000**
- **Project Description:** Reduce invasive plants on
- 600 acres in Grand River watershed through
- integrated approach using early detection and
- rapid response, treatment, and development of long term management plan for the watershed.
- **Project Manager:** Karen Adair, Northeast Ohio Preserves Manager
- **Partners:** Cleveland Museum of Natural History, Ohio Department of Natural Resources - Division of Wildlife, Geauga Park District, Lake Metroparks, and Western Reserve Land Conservancy

# Invasive Plant Prevention and Control Grand River Watershed

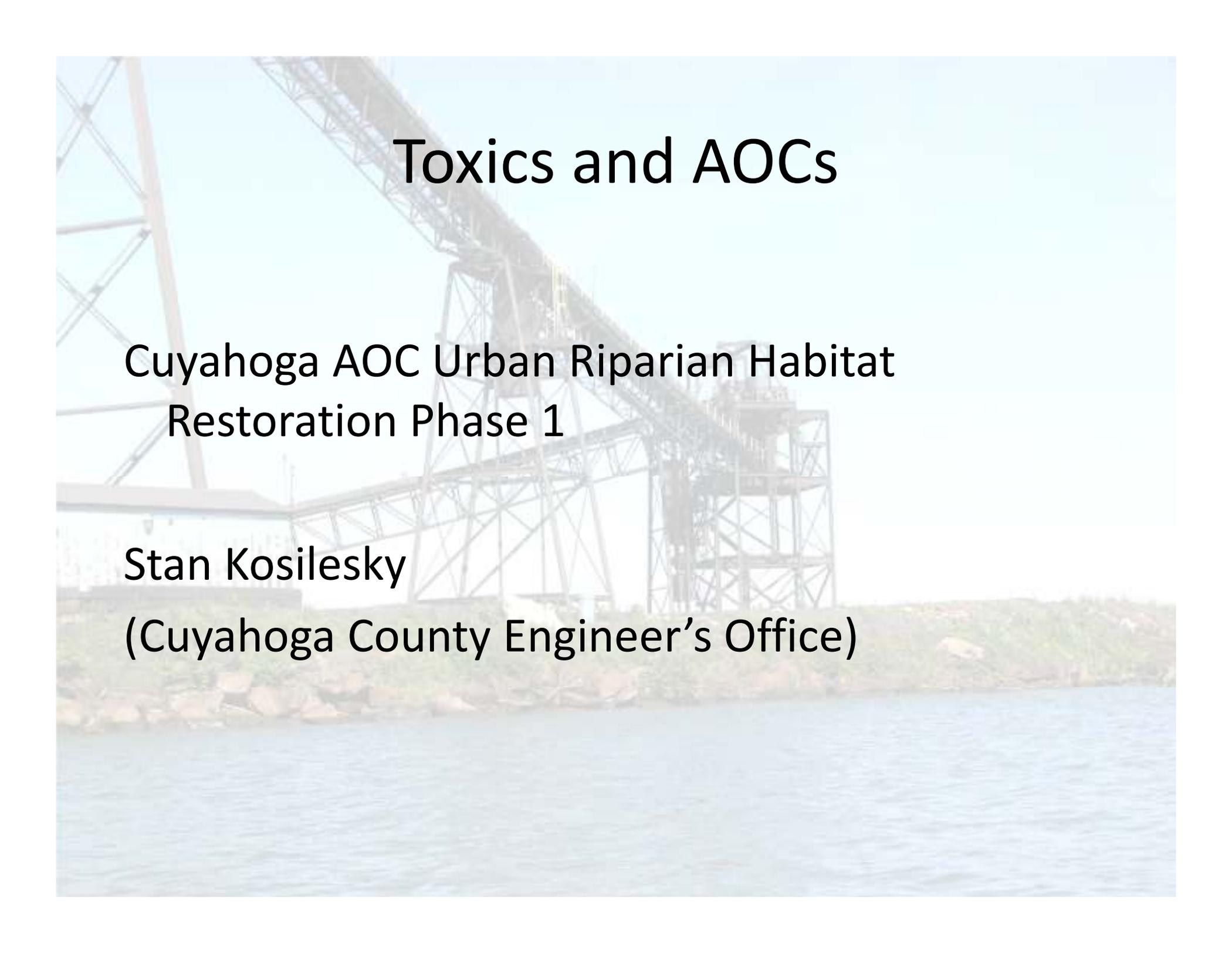


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# Future Direction

- Create integrated and regional approach to invasives management and habitat restoration at watershed scale
- Improve water resources for people and wildlife; protect and restore floodplains, bottomlands forests, and wetlands
- Increase public awareness of threats to freshwater resources in the Grand River watershed

The background of the slide is a photograph of a large steel truss bridge, likely the Cuyahoga Falls Railroad Bridge, spanning across a body of water. The bridge's complex lattice of steel beams is the central focus, with a section of the bridge deck visible in the upper left. The water in the foreground is a calm, light blue-grey color. The sky is a pale, clear blue. The overall image has a slightly faded or semi-transparent appearance, allowing the text to be clearly legible.

# Toxics and AOCs

Cuyahoga AOC Urban Riparian Habitat  
Restoration Phase 1

Stan Kosilesky  
(Cuyahoga County Engineer's Office)



# Toxics and AOCs

## Ottawa River Watershed Scrap Yard Pollution Prevention Program

Marc Gerdeman  
(City of Toledo)

# Background

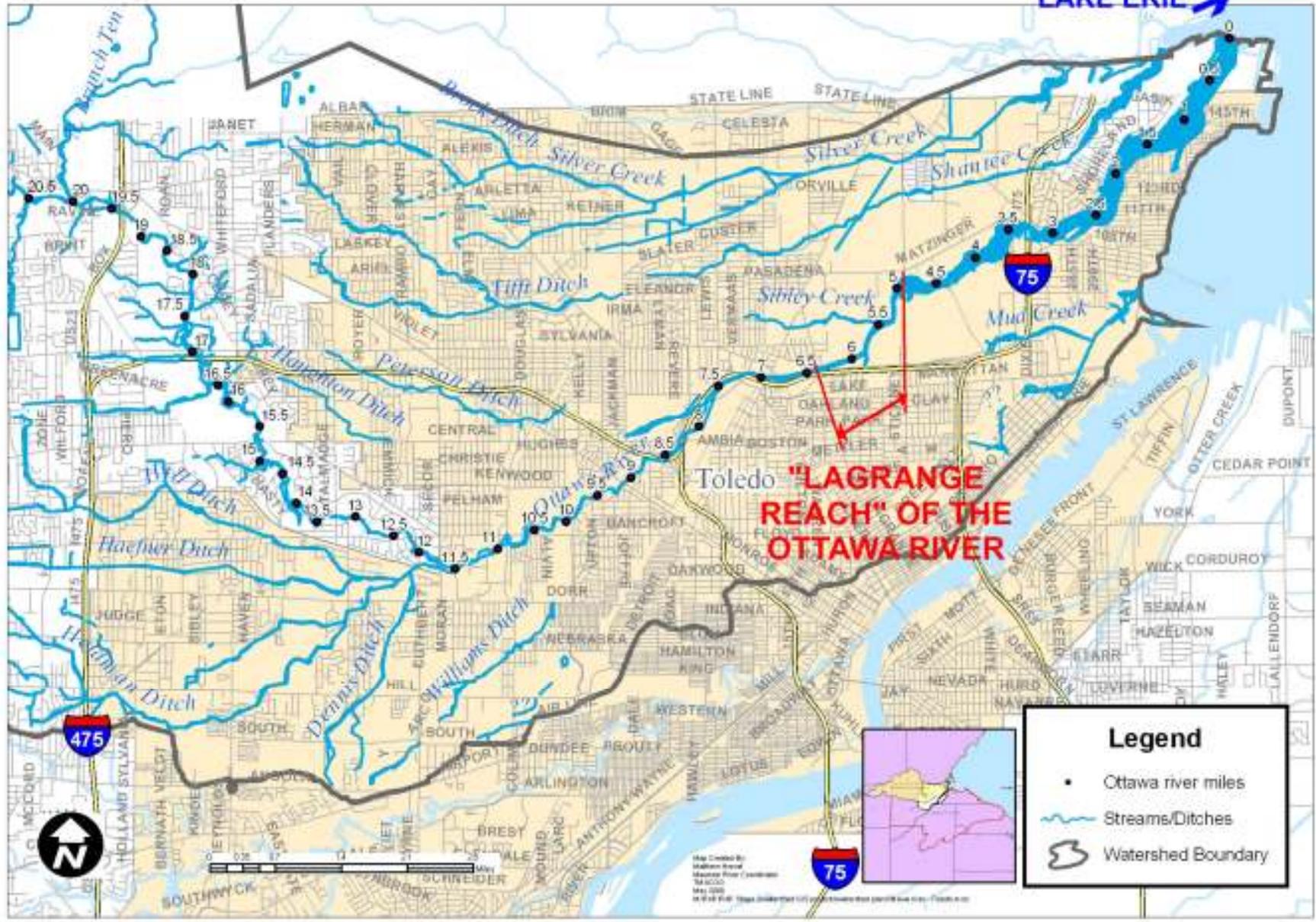
- Sediments of the Ottawa River in Toledo Ohio are contaminated by chemicals that include PAHs and heavy metals.
- Fourteen known scrap yards in the watershed are believed to be significant sources of sediment.

- Auto Parts (5846 N. Detroit)
- A-1 Auto Parts (4093 N. Detroit)
- Cherry Picked Auto Parts (5650 N. Detroit)
- Goody's Truck Parts (5245 Lewis Ave.)
- Homer's 3 Auto Parts (4848 N. Detroit Ave.)
- Metal Management Ohio, LLC. (2535 Hill Ave.)
- Omni Source Corporation (2453 Hill Ave.)
- Omni Source Corporation (1320 Lagrange)
- Omni Source Corporation (5130 N. Detroit)
- Northtown Auto Parts (2835 Hill Ave.)
- R&M Recycling (4103 Lagrange)
- Rada and Sons, LLC. (4712 N. Detroit Ave.)
- Voll Auto Parts (429 Terminal Dr.)
- Westwood Auto Parts (130 S. Westwood)

# Ottawa River/Ten Mile Creek Watershed - City of Toledo, Ohio

HUC 0410001 020

LAKE ERIE →



# Problems

- The Ottawa River watershed is listed within the Maumee Area of Concern. Contaminated sediments of the Ottawa River in particular were a principal reason why the area was designated as an AOC. Restoring the Ottawa River and delisting the Maumee AOC depends upon remediation of the Ottawa River's contaminated sediments.

# 2006 USEPA and Tetra Tech Sampling

- In the Ottawa River, 40% of the samples exceeded Evaluation Criteria; PAHs, 26%, and lead 35%.
- The study recommended remediation criteria to address these three parameters.
- The study indicates primarily unknown upstream or upgradient sources for these constituents.

# Goals

- The City of Toledo, partnering with TMACOG will conduct site reviews for best pollution prevention practices; work with the yards to improve practices; and publicly recognize yards that implement effective controls.
- A consultant will sample stream sediments upstream and downstream of scrap yards to determine impacts and prepare reports.

# Proposed Work

- SYP3 will improve the environmental management of scrap yards and automotive recycling yards in Toledo, OH and specifically in the watersheds of streams that drain into North Maumee Bay: the Ottawa River and its tributaries, Silver Creek, Shantee Creek, and Halfway Creek.

# Main Elements of SYP3

- Update Toledo's scrap yard inventory database
- Develop a GIS mapping system of the scrap yards
- Identify likely outfall points of runoff from each site.
- Monitor the stream and its sediments upstream and downstream of outfall points
- Develop education and guidance materials.
- Conduct site assessments of all scrap yards

# Main Elements of SYP3

- At the end of the program, re-sample the stream and sediment sites tested at the start of the program. Compare results to help determine environmental benefit
- Conduct project-end site assessments to gauge which scrap yards implemented the best pollution prevention practices. Conduct a public recognition program

# Ongoing Goals

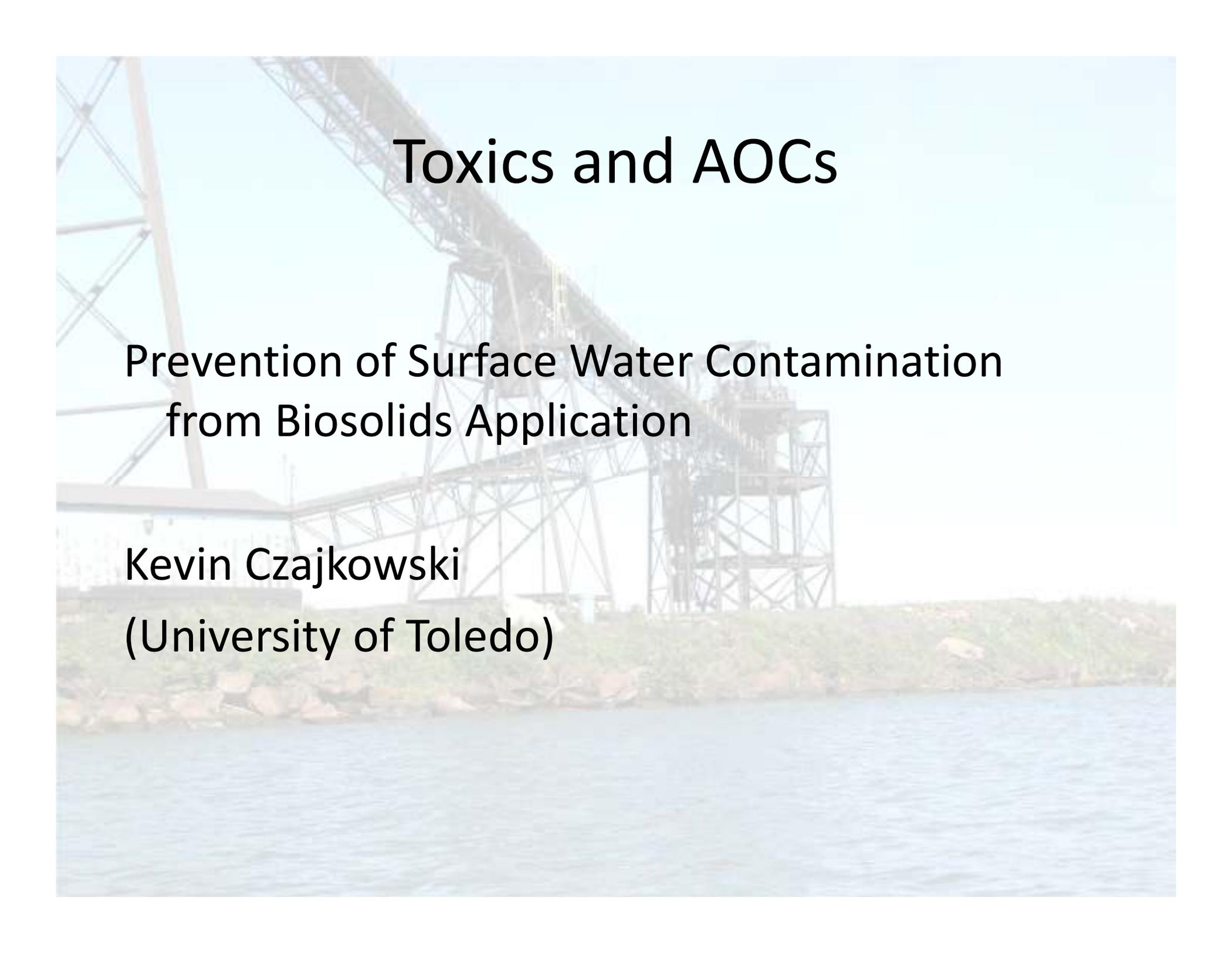
- Toledo's SYP3 program will continue after completion of this grant project.
- Once this project is completed, the City of Toledo will present the findings at Ohio's Stormwater Conference. The conference is intended for engineers, policy makers, scientists, managers, and elected officials throughout Ohio looking for innovative solutions to common problems relating to stormwater management and finance.

# Funding

- Awarded \$270,600
- Project start date: ?
- Workload Distribution
- City of Toledo (In Kind Service)
- TMACOG (\$70,600)
- Selected Consultant (\$200,000)

# Questions/Suggestions?

- Sampling selected salvage yards runoff vs. sediment sampling in nearby waterway



# Toxics and AOCs

Prevention of Surface Water Contamination  
from Biosolids Application

Kevin Czajkowski  
(University of Toledo)

The background of the slide is a photograph of an industrial facility, possibly a water treatment plant or a bridge under construction, situated on a rocky bank next to a body of water. The structure is made of dark metal beams and supports, extending from the left side of the frame towards the right. The water in the foreground is a light blue-grey color. The sky is a pale, hazy blue. The overall image has a slightly faded or semi-transparent appearance, allowing the text to be clearly visible.

# Toxics and AOCs

Installation Incentives for Dental Amalgam  
Separators

Kathryn Crestani  
(NEORSD)