

# Ohio's Response to the Great Lakes Mississippi River Interbasin Study

To Conserve and improve **Fish**  
and **Wildlife** resources and  
their **Habitats** for sustainable  
use and appreciation by **all**

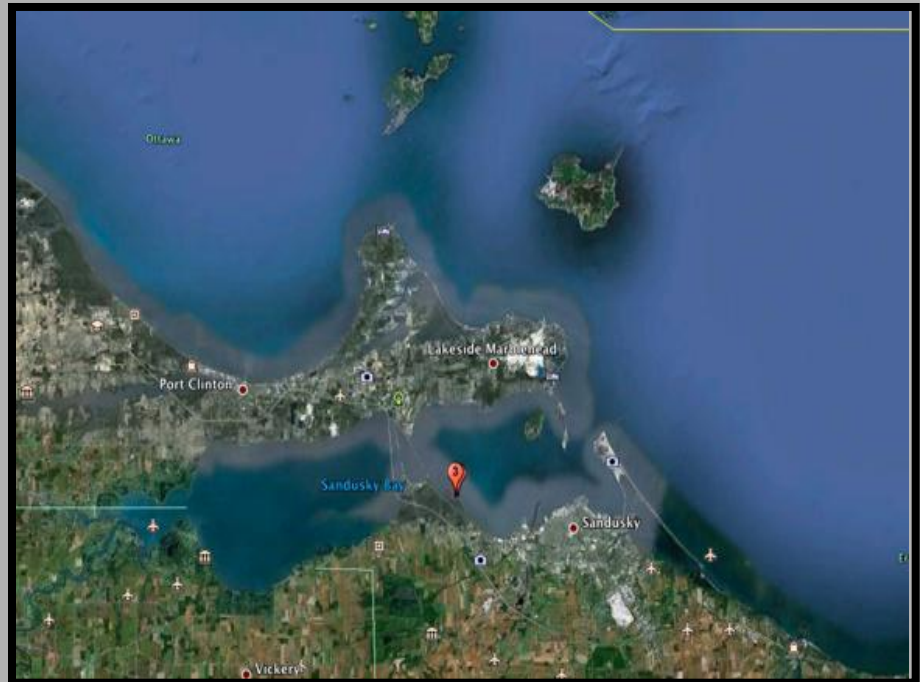
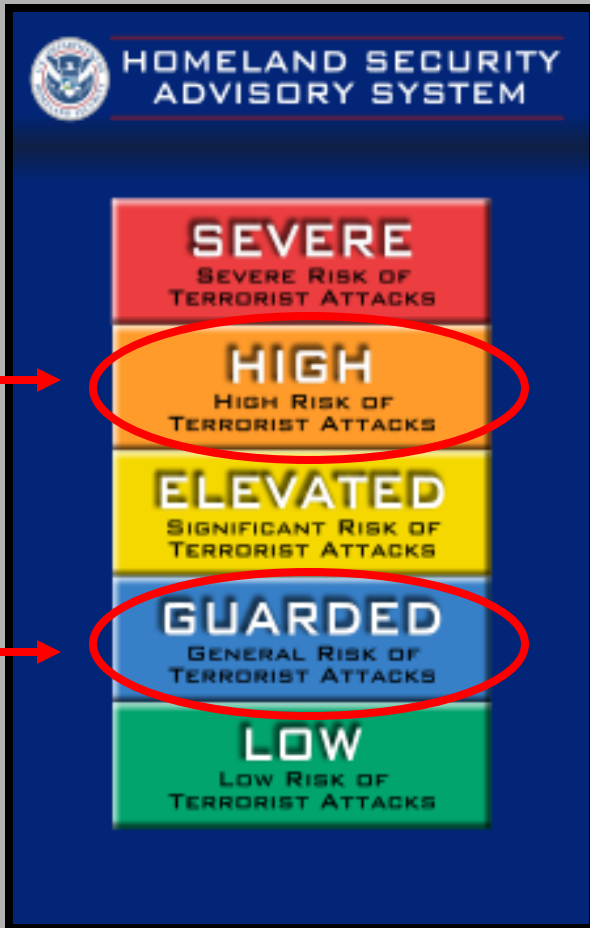


John Navarro  
Fish Management and Research

# What a Difference a Month Makes

July  
2012

June  
2012



# What is the Risk to Ohio?

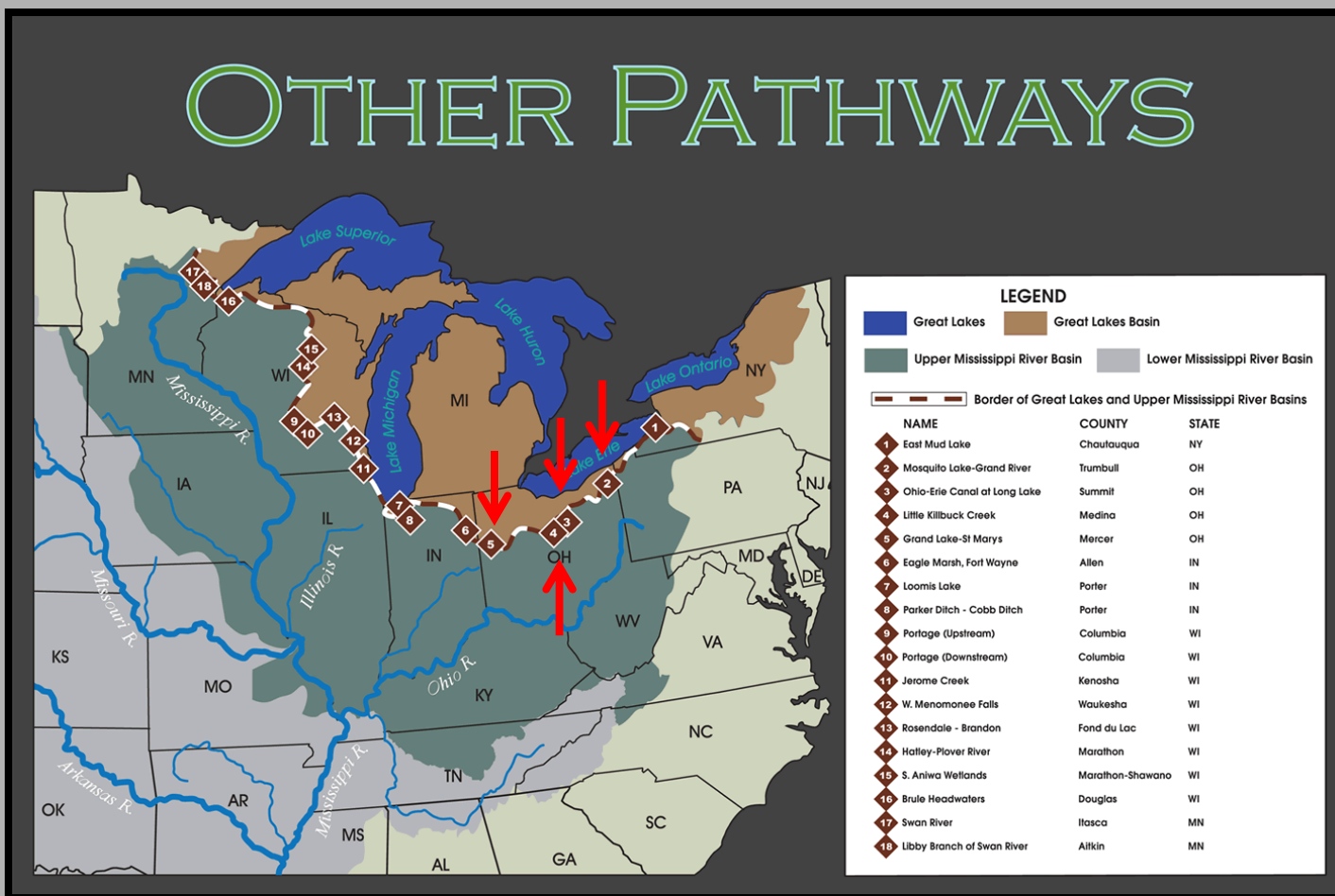
- Habitat matches their needs
- \$10 billion Lake Erie tourism industry
- \$800 million Ohio sport fishery
- Jumping silver carp are hazard to boaters



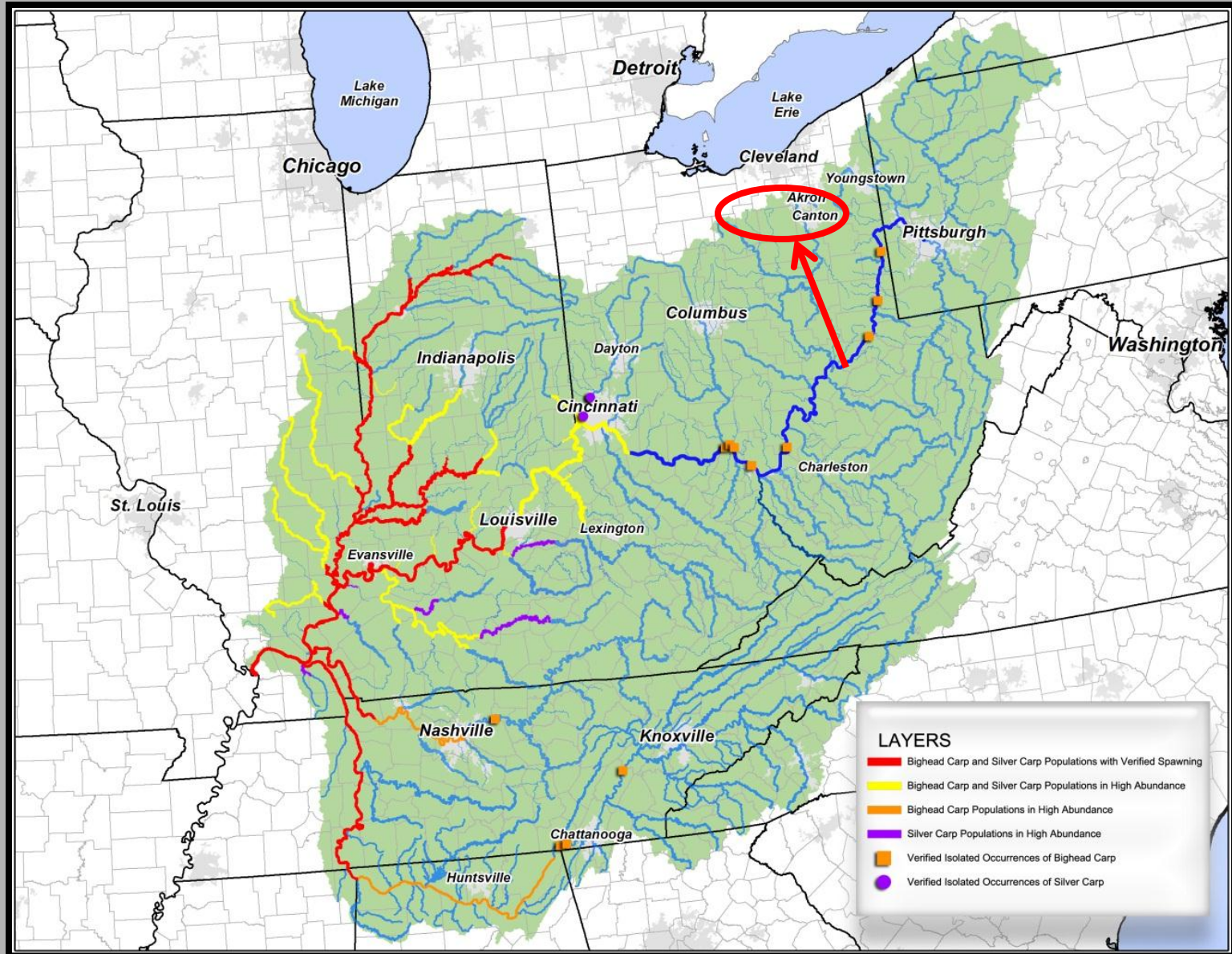


# Great Lakes Mississippi River Interbasin Study

## OTHER PATHWAYS



# Asian Carp Status in the Mississippi River Basin



# It is not Just About Asian Carp

*Hypophthalmichthys molitrix*

*Hypophthalmichthys nobilis*

*Mylopharyngodon piceus*

*Channa argus*

*Alosa chrysochloris*

*Gasterosteus aculeatus*

*Gymnocephalus cernuus*

*Proterorhinus semilunaris*

*Neogasilus japonicas*

*Novirhabdovirus sp.*

*Sphaerium corneum*

*Valvata piscinalis*

Silver Carp

Bighead Carp

Black Carp

Northern snakehead

Skipjack Herring

Threespine stickleback

Ruffe

Tubenose goby

Parasitic copepod

Viral Hemorrhagic Septicemia

European fingernail clam

European stream valvata





# Risk Assessment Matrix

Rated connections as high, medium or low using these categories

1. Probability that Pathway Exists
2. Probability of AIS being within Either Basin
3. Probability of AIS Surviving Transit to Aquatic Pathway
4. Probability of AIS Establishing at the Aquatic Pathway
5. Probability of AIS Spreading Across Aquatic Pathway into New Basin



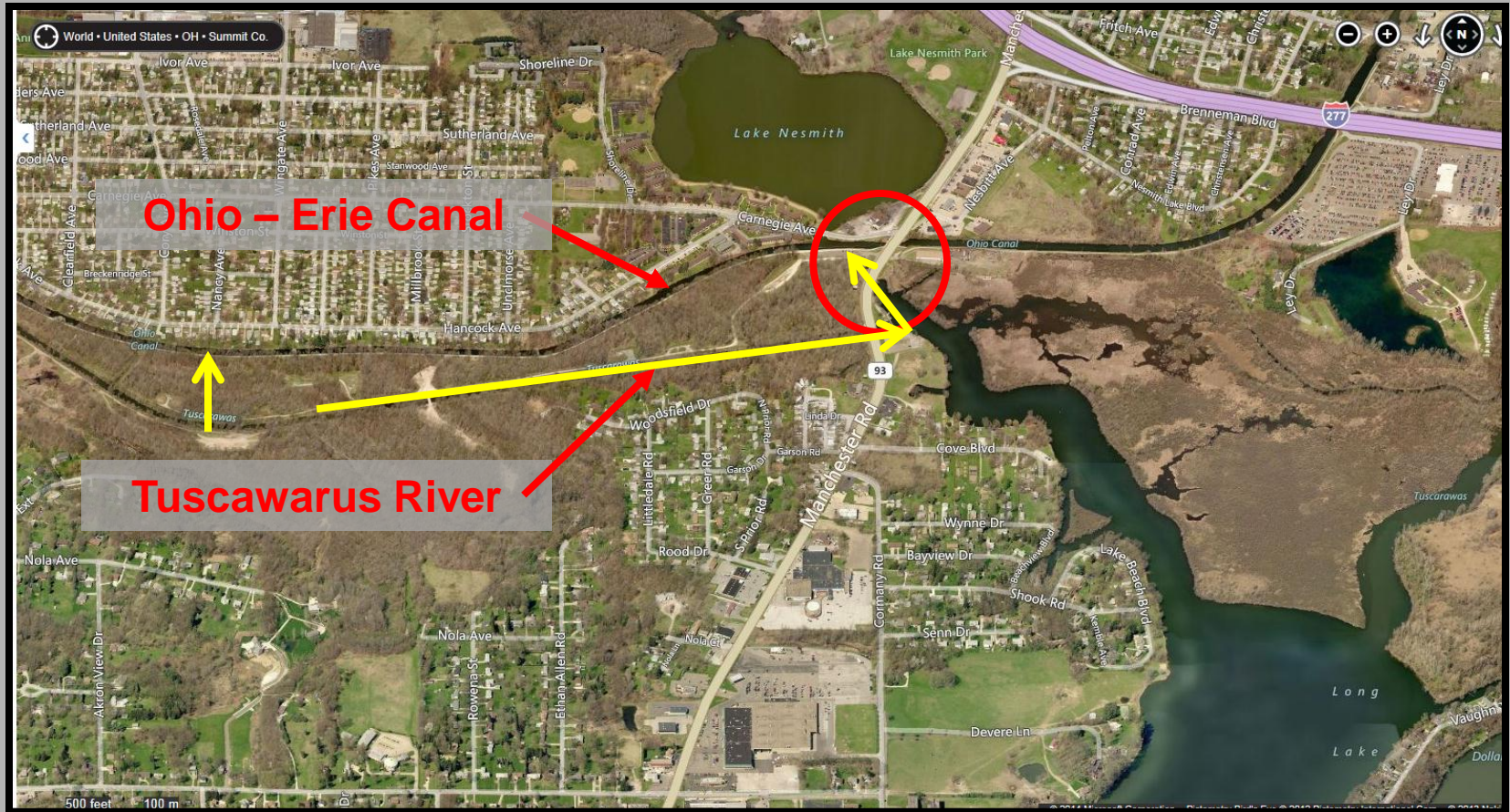
# Where did Ohio Score?

- #1: Chicago Area Waterway**
- #2: Eagle Marsh**
- #3: Parker-Cobb Ditch**
- #3: Ohio Erie Canal**
- #3: Little Killbuck Creek**
- #4: Grand Lake St Marys**
- #5: Mosquito Lake**





# Ohio Erie Canal Summit County, Ohio





# Long Lake Dam





# Actively Move Water Between Basins

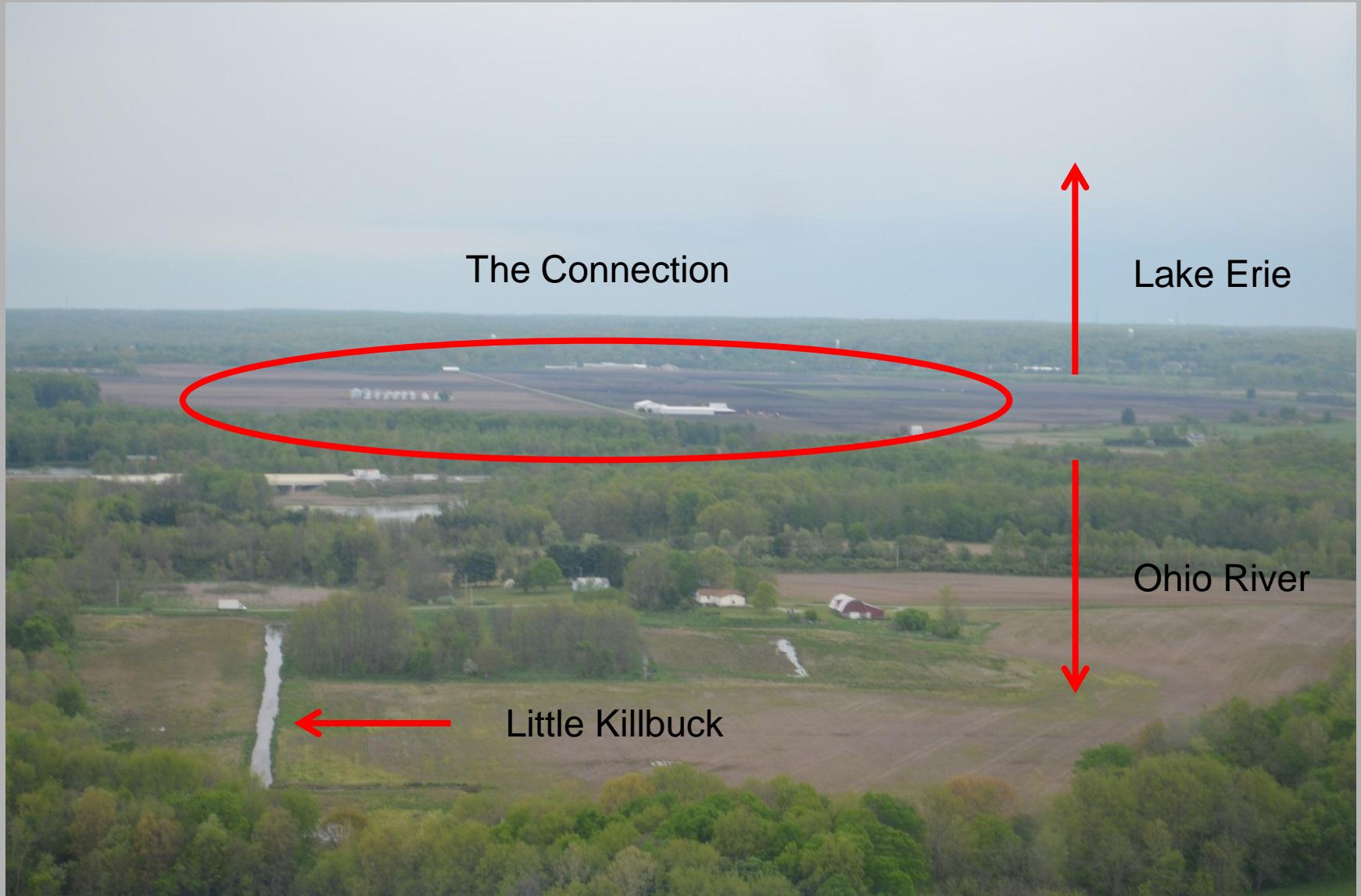




# Canal Towpath is Prone to Flooding



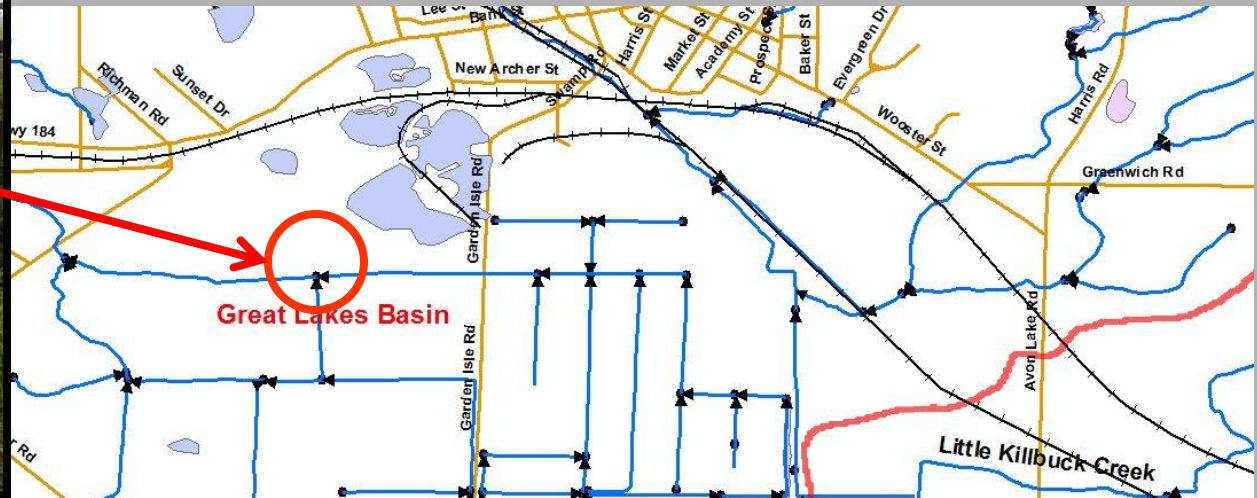
# Little Killbuck Creek Medina County, Ohio





# Elaborate Pumping System

Ohio River to Lake Erie



Lake Erie to Ohio River

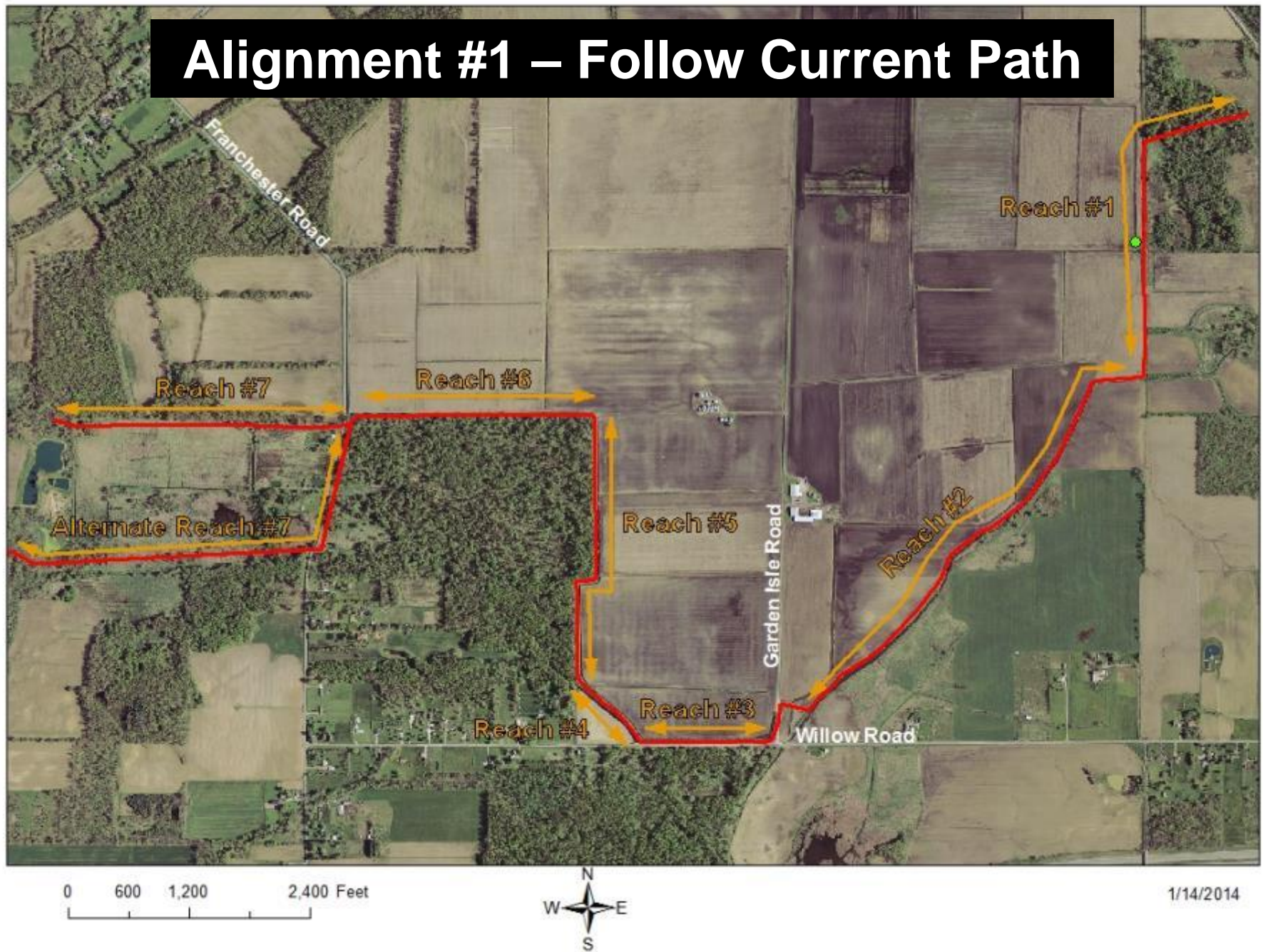




# Low Lying Area Prone to Flooding

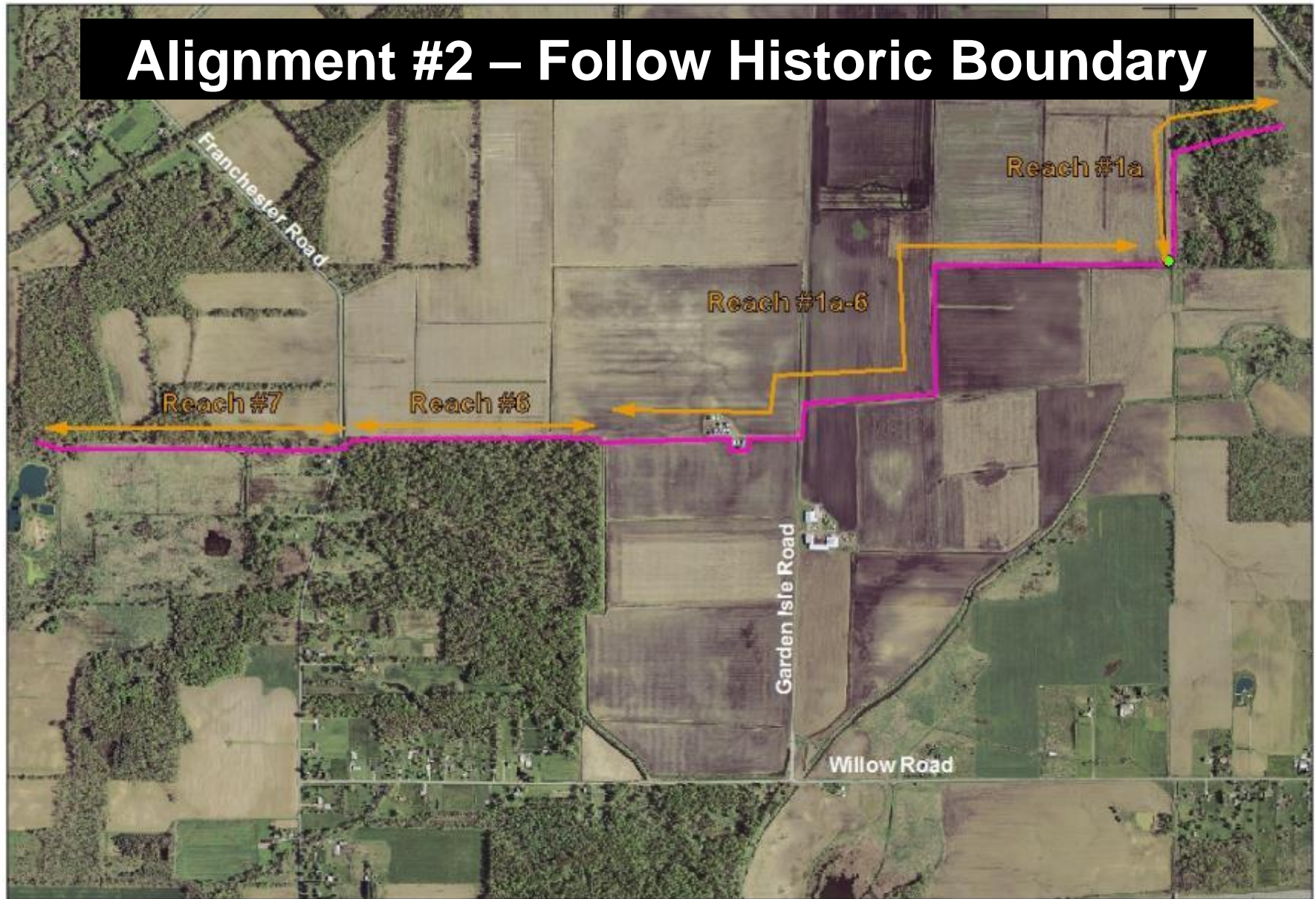


# Alignment #1 – Follow Current Path





# Alignment #2 – Follow Historic Boundary



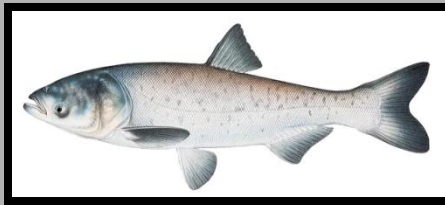
0 600 1,200 2,400 Feet



1/22/2014



# **Path Forward**



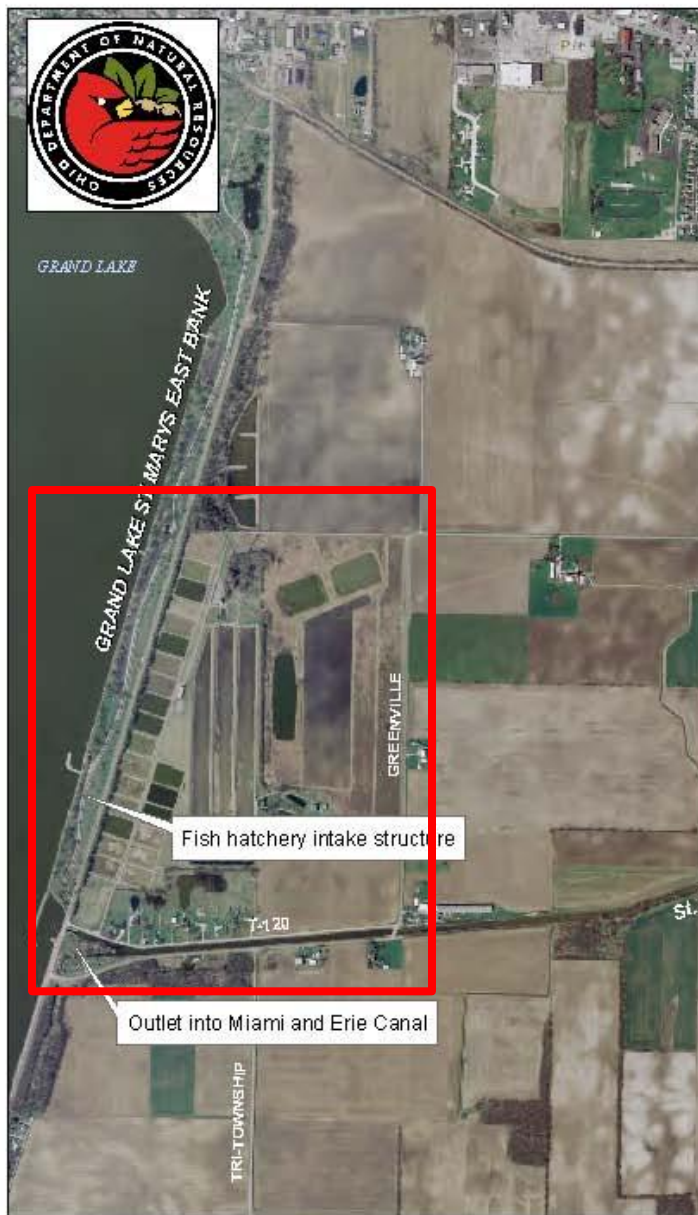
## **Ohio - Erie Canal**

- **USACE preliminary assessment: 9/30/14**
- **GLRI Framework funding: \$400,000**
- **USACE completion of final design: 6/30/16**
- **ODNR implement closure: 3/31/17**

## **Little Killbuck Creek**

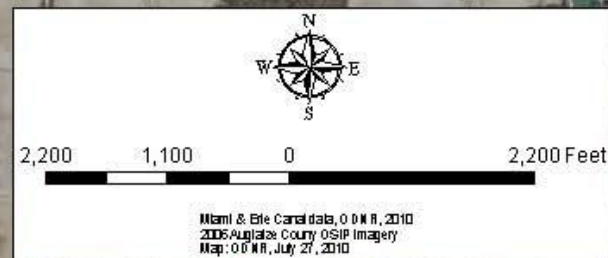
- **Consultant preliminary assessment: 9/30/15**
- **GLRI Framework funding: \$350,000**
- **Select consultant for final design: 3/31/16**
- **ODNR implement closure: 9/30/17**

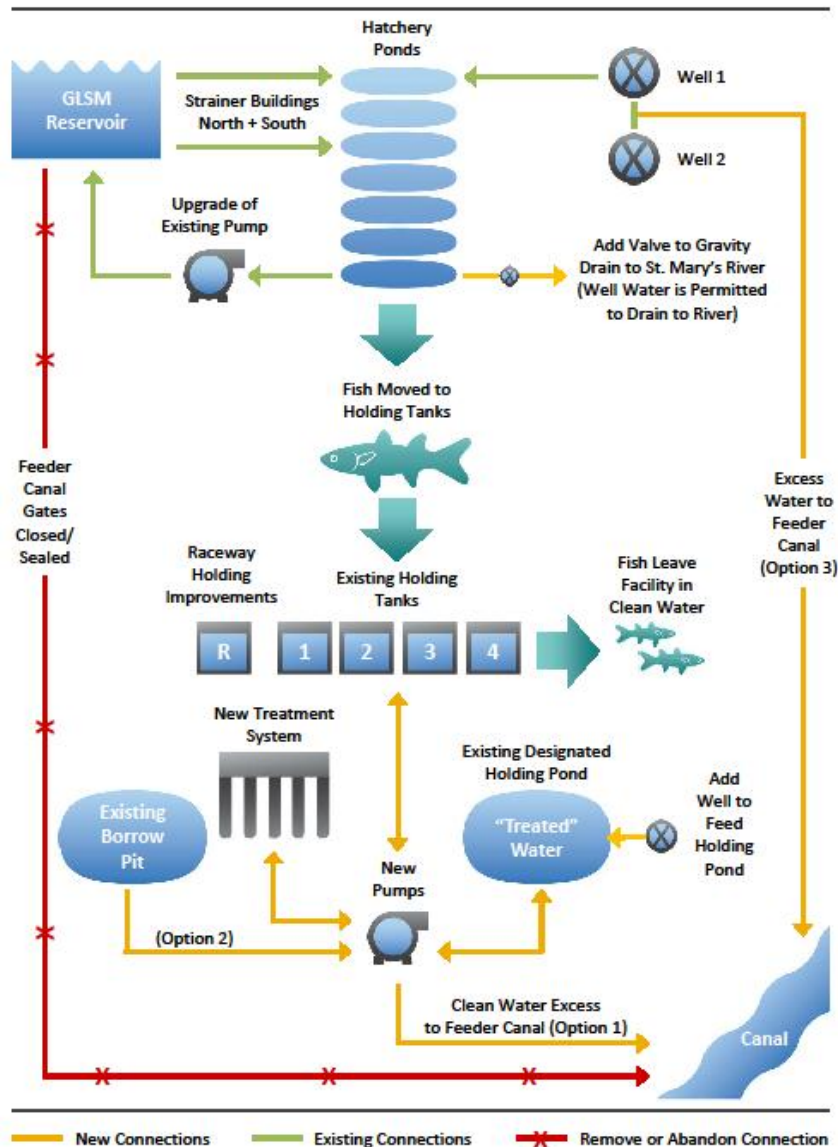
# Grand Lake St Marys



(typically only one open)

- Open 1"-2" normally unless flushing debris (12"-15" for short duration)



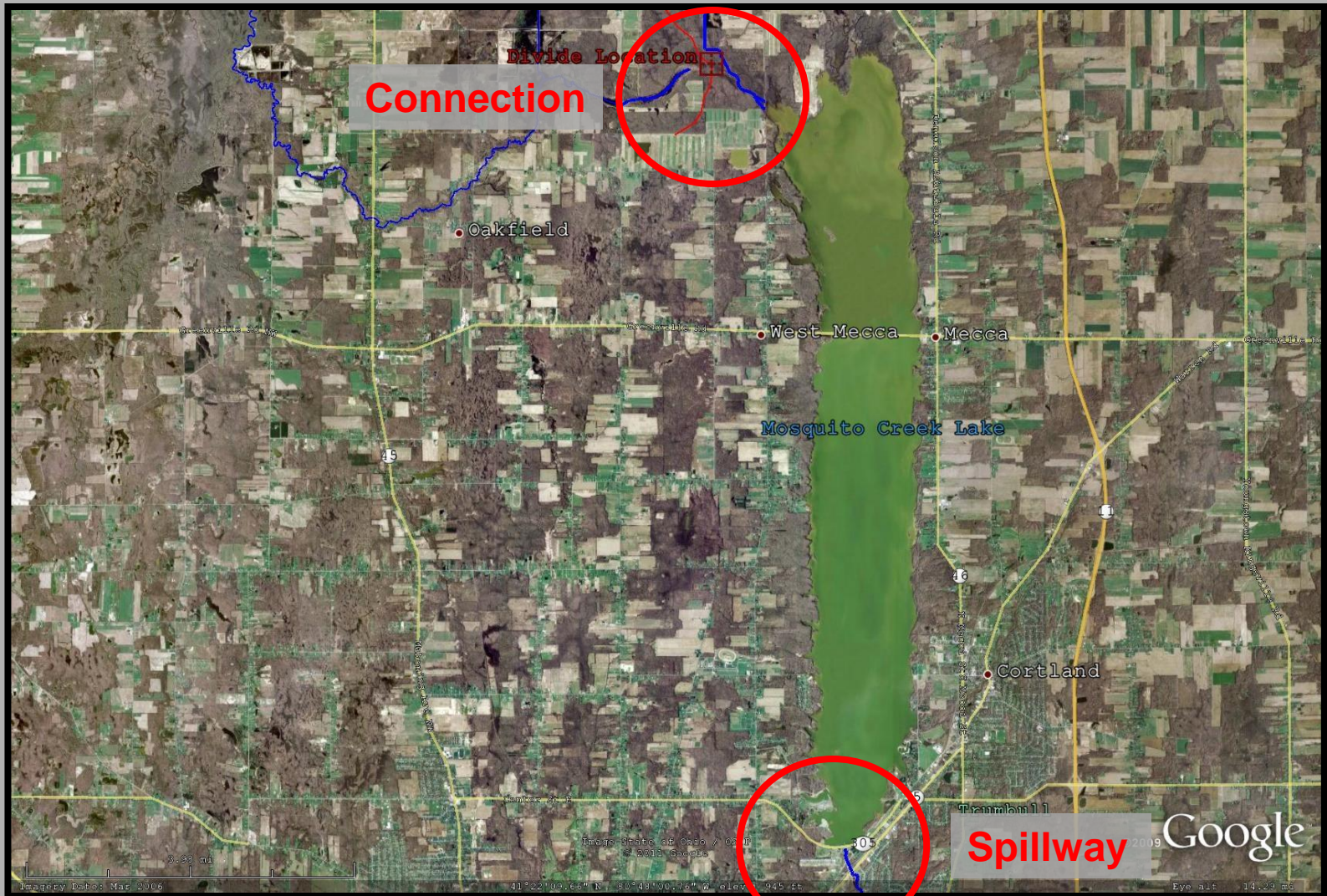


# Grand Lake St Marys

- Sever eastern outlet on GLSM
- SMSFH continues to use GLSM water
- Water leaving SMSFH treated
- Provide flow to canal from SMSFH
- Modify SMSFH operations

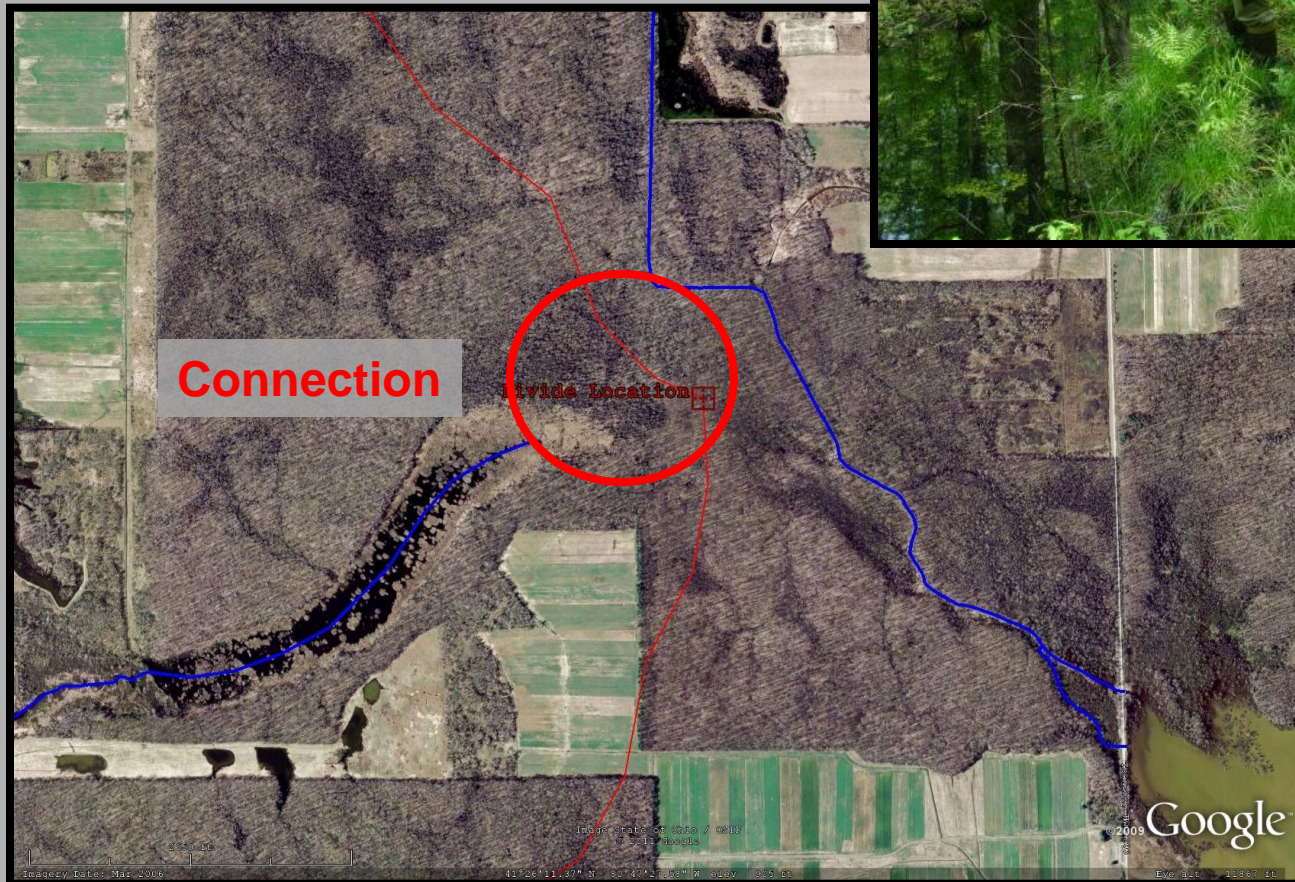


# Mosquito Creek Lake





# Mosquito Creek Lake





# Questions

