

Great Lakes Restoration Initiative

Lake Erie Synthesis Team

Overview

- GLRI Review
- Lake Erie Synthesis Team Project
 - Synthesis Team
 - OLEC & LEMC
 - What will be done
 - Outcomes, Outputs, Expected Results
 - Timeline
- Ohio GLRI Projects

GLRI Review



Major Themes

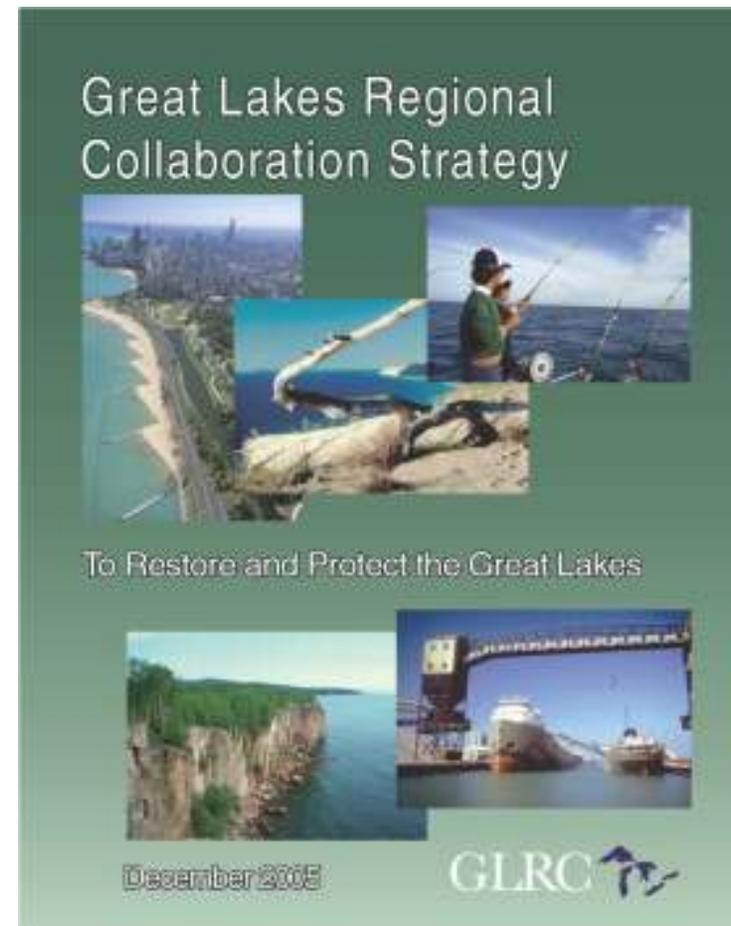
- Target the most significant Great Lakes issues
- Results- and action-oriented
- Fully engage Great Lakes community as implementation partners
- Transparency and accountability

Qualifiers

- Represents new resources for Great Lakes restoration – should not supplant existing resources
- Funding not to be used for traditional water infrastructure projects otherwise covered by State Revolving Funds

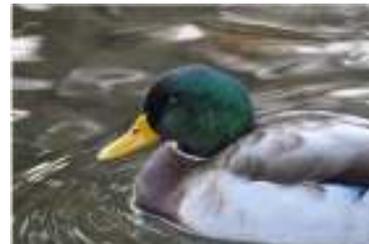
GLRI Plan Goals and Objectives

- Programs and actions identified for 16 federal agencies
- Objectives and the Plan are based on the *Great Lakes Regional Collaboration Strategy to Restore and Protect the Great Lakes*



GLRI Five Focus Areas

- Toxic Substances and Areas of Concern
- Invasive Species
- Near shore Health and Nonpoint Source Pollution
- Habitat and Wildlife Protection and Restoration
- Accountability, Monitoring, Evaluation, Communication, and Partnerships



US EPA GLRI RFP - Finalists

	Submitted	Funded	%
Agencies	33	12	36%
Agencies	\$18,478,455	\$5,739,511	31%
State Wide	114	28	25%
State Wide	\$81,949,390	\$17,132,332	21%
GL Basin Wide	1048	270	26%
GL Basin Wide	\$942,325,985	\$163,567,948	17%

- **GL Basin Wide 17% of projects were funded by \$ and 26% by quantity submitted.**
- **Ohio projects were 21% and 25% respectively.**
- **Ohio agency projects were 31% and 36% respectively.**



Lake Erie Synthesis Team Project

Ohio Lake Erie Commission

Ohio

Department of Agriculture
Department of Development
Department of Health
Department of Natural Resources
Department of Transportation
Environmental Protection Agency

Mission:
Protect & Restore
Lake Erie



Lake Erie Millennium Network Coordination Team



- **Jan Ciborowski**

University of Windsor, Great Lakes Institute for Environmental Research

- **Jeff Reutter**

Ohio State University, Ohio Sea Grant and Stone Laboratory, Director

- **Russell Kreis**

US EPA, Office of Research and Development, Large Lakes Research Station

- **Chris Marvin**

Environment Canada

LEMN Objectives

- 1. Bi-national and permanent with 2 academic and 2 agency leads**
- 2. Voluntary, non-regulatory, and inclusive: US and Canada, all 4 states and Ontario, academia, agencies, private sector, NGOs, etc.**
- 3. Fundable by any agency or group**
- 4. Add value to existing programs**
- 5. Enhance collaboration and communication of research, education, and outreach results and priorities within the region**

LEMN Objectives



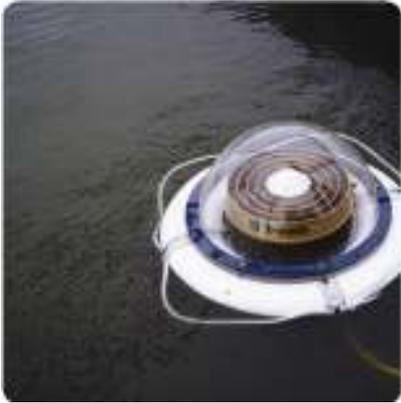
- 6. Assist the IJC Council of Great Lakes Research Managers in developing and implementing their Great Lakes Research Strategy**
- 7. Assist the Binational Executive Committee and the Lake Erie LaMP in establishing regional research priorities for the CSMI and in communicating research results**
- 8. Better coordinate academic research scientists and enhance interactions between academic and agency scientists**

LEMN Objectives



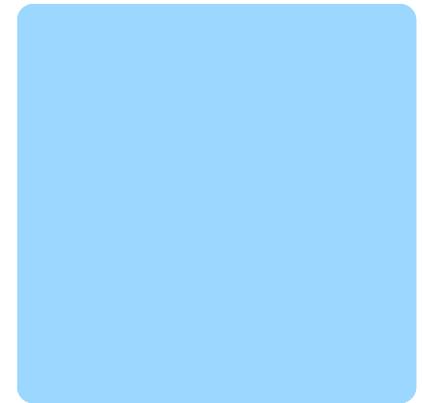
- 9. Provide a single point of contact for all research scientists on the Lake**
- 10. Build research capacity**
- 11. Facilitate rapid response to RFPs**
- 12. Develop research information network to support GLRC**

LEMN Objectives



13. Identify and clarify research priorities and issues and the science questions to address these

14. Show how GL priorities and needs fit into US Ocean Research Priorities Plan



15. Facilitate development of proposals to address above priorities and issues.

Synthesis Project Description

- Strategic implementation of GLRI projects
- Multi-organization synthesis team of Lake Erie scientists and managers
- Summary and Synthesis reporting
- Education and Outreach
- Model for other Great Lakes



Lake Erie Synthesis Team

Jeff Reutter, Ohio Sea Grant College Program

Ed Hammett, Ohio Lake Erie Commission

Sandra Kosek-Sills, Ohio Lake Erie Commission

Gail Hesse, Ohio EPA

Roger Knight, ODNR-Sandusky Fisheries

Frank Lopez, ODNR - Old Woman Creek NERR

John Watkins, ODNR – Coastal Management

Dick Bartz, USGS-Ohio Water Science Center

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Cheryl Rice, NRCS - USDA

Dan O'Riordan, U.S. EPA-Region 5

Jan Ciboroski, University of Windsor

Eddie Herdendorf, Ohio State University

Eric Obert, PA Sea Grant

Anthony Sasson, The Nature Conservancy in Ohio

Kristy Meyer, Ohio Environmental Council

Gildo Tori, Ducks Unlimited, Inc.-Great Lakes Region



Role of Lake Erie Synthesis Team

- Prepare clear and concise annual summaries and synthesis
- Explain the results and their implications for all projects

What Will Be Done

- Develop a Synthesis Team for all management and research projects co-chaired by OLEC and LEMC
- Glean project results from the Great Lakes Accounting System (GLAS) and put into Ohio Sea Grant's Electronic Reporting system (OSGER) to provide the Synthesis Team with a simple way to track and summarize/synthesize management, implementation and research projects
- Produce a clear and concise annual summary and synthesis report (10 pages or less) of GLRI activities for managers, decision makers, elected officials, and the public

What Will Be Done

- Track progress against the Lake Erie Protection & Restoration Plan 2008 and integrate the results into the next Plan update
- Develop and maintain a simple, user friendly, web-based outreach platform to help laypeople understand and track the progress of projects in Ohio by watershed, county, and state/ federal house and senate jurisdiction
- Conduct two forums for managers and research scientists, one for priority setting and proposal planning and one to discuss results and implications

What Will Be Done

- Produce for the public: newsletter articles, press releases, fact sheets, and other appropriate materials which will inform managers, elected officials, citizens and decision makers of the progress made toward restoration of Lake Erie and specifically with GLRI funding.
- Invite all states bordering Lake Erie and Ontario to participate in the planning and synthesis activities
- Share results with other Great Lakes states

Outcomes

- Research projects are focused on management needs
- Project costs are minimized
- Management decisions concerning the Great Lakes are informed by best science
- Stakeholders understand Great Lakes issues, research needs, and management implications
- Results present integrated and scaled data from watersheds to lakes to Great Lakes basin-wide and are public-friendly, timely, and available on the Internet
- Scientists have greater involvement in LaMP activities
- The public and elected officials achieve greater understanding of LaMP actions and accomplishments
- Great Lakes stakeholders have increased opportunities to provide input to managers and scientists on Great Lakes concerns

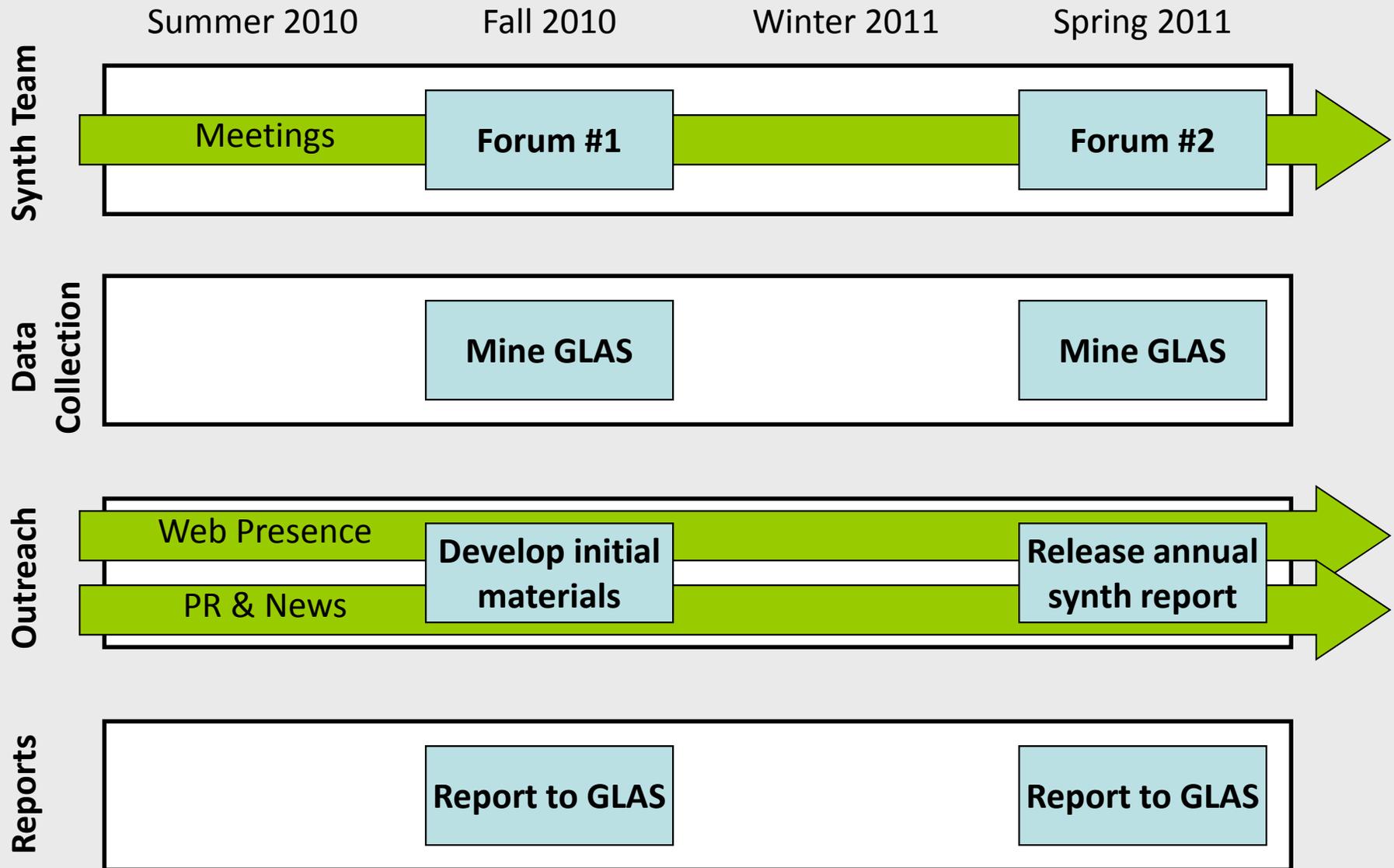
Outputs

- Internet-based technology providing increased opportunities for collaboration, planning, data accessibility, and accountability
- Lake Erie ecosystem improvements through implementation of better integrated, more holistic projects
- Citizens educated about the GLRI and the benefits of projects being implemented
- Educational opportunities provided to target audiences including public meeting presentations, conferences, forums, workshops, public events, and trade shows

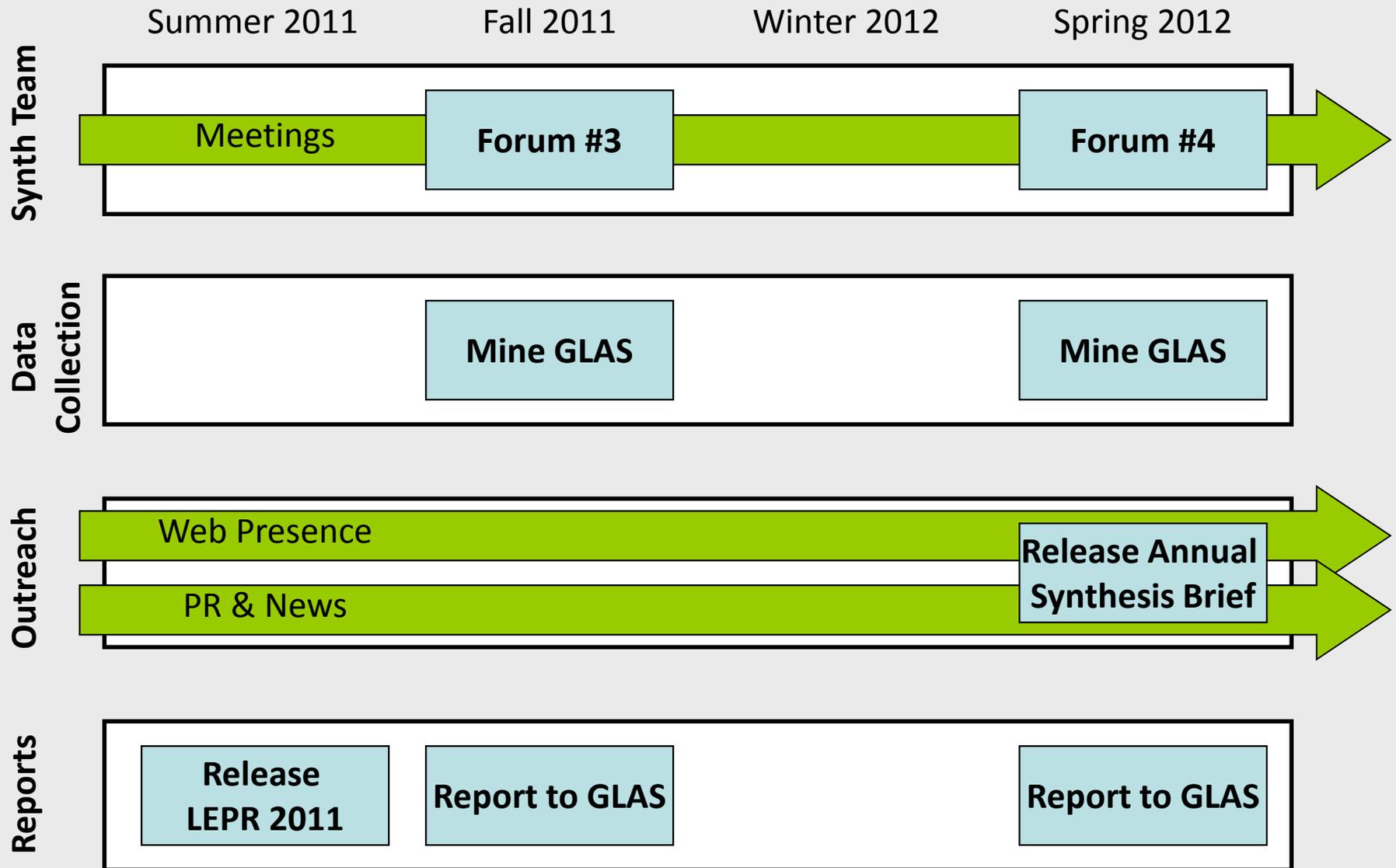
Expected Results

- Increased number of stakeholders
- Increased involvement by cities, local governments, the faith-based community, and others
- Increased collaborative partnerships
- Increased awareness by managers and scientists
- Increased visibility and promotion of the strategic direction of the combined portfolio of projects

Timeline



Timeline





Ohio Awarded GLRI Projects

Toxics & Areas of Concern (\$2.46M)

- Cuyahoga AOC Urban Riparian Habitat Restoration Phase 1 (Cuyahoga Co Engineer's Office) \$1.4M
- Ottawa River Watershed Scrap Yard Pollution Prevention Program (City of Toledo) \$270K
- Prevention of Surface Water Contamination from Biosolids Application (UT) \$550K
- Installation Incentives for Dental Amalgam Separators (NEORSD) \$250K

Invasive Species (\$1.34M)

- Phragmites Control in W. LE Coastal Wetlands (The Nature Conservancy) \$497K
- Invasive Plant Prevention and Control, Grand River Watershed (TNC) \$844K

Nearshore Health & Nonpoint Source Pollution (\$3.72M)

Ohio Agency Projects

- TMDL for Ottawa River (Lima) Watershed (OEPA) \$250K
- Cuyahoga County Surface Water Improvement Fund (OEPA) \$1M
- Toledo Harbor Sediment Management and Reuse (OLEC) \$250K
- Phosphorus Reduction: Variable Rate Technology Program (OEPA) \$202K
- Improving Communication about Beach Water Quality (ODH) \$100K
- Sanitary Surveys to Reduce Pollution at Lake Erie Beaches (ODH) \$249,511

Nearshore Health & Nonpoint Source Pollution (cont)

- Process Based Predictive Models for Complex Urban Beaches (NEORSD) \$248K
- Innovative Rapid Identification of LE Fecal Source (OSU) \$250K
- Holistic Watershed Approach to Health at Huntington Beach (Cuyahoga Board of Health) \$248K
- Rapid Method Data Comparison at Bathing Beaches in Ohio (NEORSD) \$88K
- Selective, Multiplexed, Real-time Detection of Bacteria (Northeast Ohio Univ., College of Medicine) \$225K
- North Central Ohio Sediment Reduction Project (Huron SWCD) \$812K

Habitat & Wildlife Protection & Restoration (\$8.64M)

Ohio Agency Projects

- Cuyahoga AOC Habitat & Fish Restoration Opportunities (ODNR) \$500K
- North Bass Island Restoration (ODNR) \$125K
- Reforestation of Maumee Bay & MJ Thurston State Parks (ODNR) \$168K
- Ashtabula AOC Habitat Restoration (OEPA) \$1.5M

Habitat & Wildlife Protection & Restoration (cont)

- Restoring Ottawa River Wetlands & Habitat in the Maumee AOC (PCS) \$1.37M
- Wet Prairie Restoration in the Maumee AOC (NC) \$1.45M
- Cuyahoga AOC Urban Riparian Habitat Restoration Phase 2 (Cuyahoga Engineer) \$1.5M
- Lacustrine Refuge in Cuyahoga AOC (Cuyahoga SWCD) \$1.4M

Accountability, Monitoring, Evaluation, Communication, and Partnerships (\$1.40M)

Ohio Agency Projects

- Ohio Comprehensive Lake Erie Nearshore Monitoring Program (OEPA) \$1.19M
- Lake Erie Synthesis & Coordination Team (OLEC) \$200K



Lake Erie
Commission



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