| Great Lakes Restoration Initiative – OHIO Funded Projects | | | |
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| **Grant Recipient** | **Project Title** | **Project Description** | **GLRI Funding Amount** |
| **Cuyahoga County Engineer's Office**<br>*Project Director:* Stanley Kosilesky<br>E: skosilesky@cuyahogacounty.us<br>P: 216-348-3932<br>C: 216-244-1834<br>*Mailing Address:*<br>Cuyahoga County Engineer's Office<br>2100 Superior Viaduct<br>Cleveland, OH 44113 | Cuyahoga River Urban Riparian Habitat Restoration *Phase I*<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.A.1: Pollution Prevention & Toxics Reduction<br>**FOCUS AREA:**<br>Toxins & AOC | This project will restore 3,000 linear feet of fish habitat within the Cuyahoga River shipping channel to promote the delisting of two remaining Beneficial Use Impairments in the Cuyahoga River Area of Concern. | $1,500,000<br><br>Funded in 2010 |
| **Ohio Environmental Protection Agency**<br>*Project Director:* Amy Jo Klei<br>E: amyjo.klei@epa.state.oh.us<br>P: 614-644-2146<br><br>*Mailing Address:*<br>Ohio EPA<br>PO Box 1049<br>Columbus, OH 43216-1049 | Fish Deformity Data Collection & Analysis<br><br>**PROGRAM AREA & TOPIC GROUP:**<br>I.A.1: Delist Areas of Concern/Beneficial Use Impairment<br>**FOCUS AREA:**<br>Toxins & AOC | Ohio EPA will assess the status of the Fish Tumors and Other Deformities Beneficial Use Impairment (BUI) in the Black River, Cuyahoga River and Maumee River Areas of Concern (AOCs). Sampling and analysis will be conducted to determine the extent of deformities, erosions, lesions and tumors in resident fish populations. The results will be compared to Ohio's delisting targets for BUI removal. | $177,688<br><br>Funded in 2011 |
| **Cleveland - Cuyahoga Port Authority**<br>*Project Director:* Jim White<br>E: james.white@portofcleveland.com<br>P: 216-377-1337<br><br>*Mailing Address:*<br>Cleveland-Cuyahoga Port Authority<br>1375 E 9th Street #2300<br>Cleveland, OH 44114 | Deploying Debris Management System in Cuyahoga River AOC<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.A.1: Delist Areas of Concern/Beneficial Use Impairment<br>**FOCUS AREA:**<br>Toxins & AOC | The grant will be used to purchase and deploy vessels and containment boom to capture floating debris in the North Coast Harbor and Cuyahoga Ship Channel to address the Degradation of Aesthetics Beneficial Use Impairment for the Cuyahoga River Area of Concern. | $425,000<br><br>Funded in 2011 |
| **Delta Institute**<br>*Project Director:* Kevin Dick<br>E: kdick@delta-institute.org<br>P: 312-554-0900 X30<br><br>*Mailing Address:*<br>53 West Jackson Blvd., Suite 230<br>Chicago IL 60604 | Toxics Reduction via Responsible E-Waste Management<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.A.2: Pollution Prevention & Toxics Reduction<br>**FOCUS AREA:**<br>Toxins & AOC | Delta Institute will work with businesses and local governments in the Cleveland and Toledo metro areas to develop improved purchasing and management practices that will reduce electronic waste (e-waste) and releases of associated toxic substances. Expected results include preventing the release of 1,915 pounds of lead, 3,400 pounds of plastic and significant quantities of mercury and flame retardants. | $151,000<br><br>Funded in 2011 |

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| **City of Toledo**<br>*Project Director:*<br>Marc Gerdeman<br>E: marc.gerdeman@toledo.oh.gov<br>P: 419-936-3771<br><br>*Mailing Address:*<br>City of Toledo<br>348 South Erie Street<br>Toledo, OH 43604 | Ottawa River Watershed Scrap Yard Program<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.A.9: Pollution Prevention & Toxics Reduction<br>**FOCUS AREA:**<br>Toxins & AOC | This project will update the existing scrap yard inventory, develop a geographic information system to ensure rapid containment of spills or other emergencies, monitor the streams and sediments upstream and downstream of the outfall points for the five sites of most concern, and develop educational materials to promote implementation of best management practices at scrap yards. The project will focus on a pollution prevention program to reduce the release of polycyclic aromatic hydrocarbons and heavy metals from scrap yards within the Ottawa River watershed. | $270,600<br><br>Funded in 2010 |
| **University of Toledo**<br>*Project Director:*<br>Kevin Czajkowski<br>E: kevin.czajkowski@utoledo.edu<br>P: 419-530-4274<br><br>*Mailing Address:*<br>University of Toledo<br>2801 Bancroft St., UH<br>Toledo, OH 43606 | Prevention of Surface Water Contamination from Biosolids<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.A.9: Pollution Prevention & Toxics Reduction<br>**FOCUS AREA:**<br>Toxins & AOC | Application of biosolids to agricultural fields is a common practice in NW Ohio. Contaminants from the biosolids enter ditches and streams flowing into Lake Erie tile drains. Through DNA fingerprinting of E.coli and detection of Pharmaceuticals and Personal Care Products, this project will evaluate the feasibility of the tile drain cap as a way to mitigate contamination of waterways after biosolids application. | $550,228<br><br>Funded in 2010 |
| **Northeast Ohio Regional Sewer District**<br>*Project Director:*<br>Elizabeth Toote-Levy<br>(Kathryn Crestani)<br>E: CrestaniK@neorsd.org<br>P:216-881-6600 x227<br><br>*Mailing Address:*<br>Northeast Ohio Regional Sewer District<br>3900 Euclid Avenue<br>Cleveland, OH 44115 | Installation of Dental Amalgam Separators<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.A.9: Pollution Prevention & Toxics Reduction<br>**FOCUS AREA:**<br>Toxins & AOC | This project will prevent approximately 25 pounds of mercury, a well-known persistent toxic substance, from being release annually into the Cuyahoga River and Lake Erie. Mercury, in the form of dental amalgam, is among the largest sources of mercury found in wastewater influent reaching POTWs. This project will provide a financial incentive to dental offices in the Greater Cleveland Area to install Amalgam Separators. NEORSD staff will conduct surveys and inspections of select dental facilities that applied for rebate incentives to verify compliance. | $250,000.00<br><br>Funded in 2010 |

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| **The Nature Conservancy**<br>*Project Director:* James Cole<br>E: jbcole@tnc.org<br>P: 419-867-4025 Ext. 23<br>C: 419-705-1003<br>*Mailing Address:*<br>Kitty Todd Preserve<br>10420 Old State Line Road<br>Swanton OH 43558 | Phragmites Control in Western Lake Erie Coastal Wetlands<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.B.2: Pollution Prevention & Control Grant Program<br>**FOCUS AREA:**<br>Invasive Species | The Nature Conservancy, along with a spectrum of public and private partners, including Winous Point Marsh Conservancy, USFWS-Private Lands, and Michigan DNR, will collaborate to manage invasive Phragmites australis on approximately 2,000 acres of wetlands within the Lake Erie basin, from Maumee Bay to Sandusky Bay. | $497,331<br><br>Funded in 2010 |
| **The Nature Conservancy**<br>*Project Director:* James Cole<br>E: jbcole@tnc.org<br>P: 419-867-4025 Ext. 23<br>C: 419-705-1003<br>*Mailing Address:*<br>The Nature Conservancy<br>10420 Old State Line Road<br>Swanton OH 43558 | Long-term Phragmites Control through the Lake Erie CWMA<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.B.2: Invasive Species Control<br>**FOCUS AREA:**<br>Invasive Species | The Nature Conservancy, working with public and private partners, will restore coastal wetlands vital for waterfowl and marsh birds. The project will fund eradication of invasive Phragmites australis on approximately 1,240 acres of Western Lake Erie coastal wetlands in Wayne and Monroe Counties, Michigan. The project will also establish through a spectrum of local partners a large-scale and sustainable approach to Phragmites treatment in a heavily populated area with high recreational value. | $321,669<br><br>Funded in 2011 |
| **The Nature Conservancy**<br>*Project Director:* Karen Adair<br>(Nathan Randolph)<br>E: kadair@tnc.org (nrandolph@tnc.org)<br>P: 330-687-2134 (440-563-9438)<br><br>*Mailing Address:*<br>3973 Callender Road<br>Rock Creek, Ohio 44084 | Invasive Plant Prevention & Control, Grand River Watershed<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.B.2: Pollution Prevention & Control Grant Program<br>**FOCUS AREA:**<br>Invasive Species | This project will control invasive plants on 531 acres of floodplain, bottomland hardwood, and wetlands in the Grand River watershed through an integrated approach focused on the Grand River main stem and priority tributaries. The work will include early detection and rapid response, targeting threats at their source, and providing aid to ongoing partner management projects within the watershed. The project will help restore degraded habitats and protect those that remain in good condition. | $843,852<br><br>Funded in 2010 |
| **Cleveland Metroparks**<br>*Project Director:* Jennifer Hillmer<br>E: jah@clevelandmetroparks.com<br>P: 440-331-8530<br><br>*Mailing Address:*<br>4500 Valley Parkway<br>Fairview Park, OH 44126 | Invasive Plant Partnership in the Cuyahoga River Basin<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.B.2: Invasive Species Control<br>**FOCUS AREA:**<br>Invasive Species | Cleveland Metroparks will control a variety of invasive plants on more than 6,000 acres in the Cuyahoga River basin, map priority natural areas, create a youth jobs corps, and plant native species along stream corridors to improve riparian and in-stream habitats for native aquatic species. | $369,472<br><br>Funded in 2011 |

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| **Wayne State University**<br>*Project Director:* Jeff Ram<br>E: jeffram@gmail.com<br>P: 313-577-1558<br><br>*Mailing Address:*<br>Wayne State University<br>5057 Woodward Ave., Suite 6409<br>Detroit MI 48202 | Invasives Early Warning Systems Validation in Toledo Harbor<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.B.3: Early Warning System for Invasive Species<br>**FOCUS AREA:**<br>Invasive Species | Wayne State University researchers will use conventional sampling and advanced molecular techniques to enhance surveillance for aquatic invasive species in a coastal ecosystem within Lake Erie. The project will develop and implement new invasive species detection protocols appropriate for the Toledo Harbor region. Project results will support development of a comprehensive basinwide surveillance program for the detection of invasive species in the Great Lakes. Findings will be submitted for publication in peer reviewed journals. | $498,612<br><br>Funded in 2011 |
| **University of Toledo**<br>*Project Director:* Daryl Dwyer<br>E: daryl.dwyer@utoledo.edu<br>P: 419-530-2661<br><br>*Mailing Address:*<br>University of Toledo<br>2801 West Bancroft Mail Stop 604<br>Toledo OH 43606 | Maumee AOC, Wolf Creek: Passive Treatment Wetland to Improve<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.1: Implementation of Beach Sanitary Surveys<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | University of Toledo researchers will construct a 10-acre, terraced wetland and floodplain in the Maumee Area of Concern to reduce the amount of bacteria, nutrient, and sediment entering Lake Erie through the Wolf Creek watershed. In addition, this project will increase coastal wetland acreage for fish and wildlife habitat. | $1,392,630<br><br>Funded in 2011 |
| **Ohio Environmental Protection Agency**<br>*Project Director:* Russ Gibson<br>E: russ.gibson@epa.state.oh.us<br>P: 614-644-2020<br><br>*Mailing Address:*<br>Ohio EPA<br>PO Box 1049<br>Columbus, OH 43216-1049 | Lake Erie Nutrient Reduction Demonstration Watershed<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.3: Watershed Remediation<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | The Ohio Environmental Protection Agency will implement a series of targeted nutrient reduction practices identified in the Sandusky River Total Maximum Daily Load report. In 2010, the Sandusky River discharged high levels of dissolved reactive phosphorus into Lake Erie. This project will prevent 14,741 pounds of nitrogen, 2,580 pounds of phosphorus, and 479 tons of sediment from reaching Lake Erie. | $546,417<br><br>Funded in 2011 |
| **Northeast Ohio Regional Sewer District**<br>*Project Director:* Mark Citriglia<br>E: citrigliam@neorsd.org<br>P: 216-641-6000 x2217<br><br>*Mailing Address:*<br>3900 Euclid Avenue<br>Cleveland, OH 44115 | Predictive Models for Urban Beaches<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.1: Beach Forecasting Models<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project will develop a predictive model that will more accurately diagnose unsafe water conditions at urban beaches than current models fail to predict. Historical and newly collected data will be used test the predictive model. | $248,060<br><br>Funded in 2010 |

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| **Ohio State University College of Public Health**<br>*Project Director:* Jiyoung Lee<br>E: jlee@cph.osu.edu<br>P: 614-292-5546<br><br>*Mailing Address:*<br>Ohio State Univ. College of Public Health<br>375 Howlett Hall<br>2001 Fyffe Ct.<br>Columbus, OH 43210 | Innovative Rapid Identification of Lake Erie Fecal Sources<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.2: Beach Sanitary Surveys<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | Ohio's Lake Erie beaches are among the National's most impaired. With a need for data-driven remediation plans to maximize source reductions, this project will employ two rapid molecular tools to quantify human and waterfowl-specific fecal indicators at three Ohio beaches. Routine sanitary and water quality surveys performed in tandem with molecular methods will provide details on human and waterfowl impacts that will improve recreational decision-making. | $249,512<br><br>Funded in 2010 |
| **Cuyahoga County Board of Health**<br>*Project Director:* Jill Lis<br>E: jlis@ccbh.net<br>P: 216-201-2001 x 1240<br><br>*Mailing Address:*<br>Cuyahoga County Board of Health<br>5550 Venture Drive<br>Parma, OH 44130 | Holistic Watershed Approach at Huntington Beach<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.2: Beach Sanitary Surveys<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project is designed to improve recreational water quality at Huntington Beach by reducing pathogen inputs from the surrounding watershed. DNA fingerprinting will be used to link land-based sources of fecal pollution runoff in the water/sewer-shed to outfalls at Huntington Beach. Information from this project will be used to identify strategies and management practices to minimize exposure to hazards for beach visitors. | $247,518<br><br>Funded in 2010 |
| **Northeast Ohio Regional Sewer District**<br>*Project Director:* Mark Citriglia<br>E: citrigliam@neorsd.org<br>P: 216-641-6000 x2217<br><br>*Mailing Address:*<br>Northeast Ohio Regional Sewer District<br>3900 Euclid Avenue<br>Cleveland, OH 44115 | Comparison of Methodologies to Assess Bacterial Levels at Beaches<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.4: Improving Beach Monitoring for Bacteria<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project will start during the 2011 recreation season and will include collection of water samples of water samples at four Lake Erie beaches. The samples will be analyzed for E.coli and Enterococci using new rapid test methods (immunomagnetic separation/adenosine triphosphate (IMS/ATP), quantitative real-time polymerase chain reaction (qPCR)) and traditional standard culture methods. The results from IMS/ATP and qPCR will be compared to the results from the culture-based method to evaluate the effectiveness of rapid test methods. A subset of the collected samples will also be analyzed for Clostridium and Campylobacter to determine if these bacteria exist in quantifiable amounts in beach sand and water. | $87,959<br><br>Funded in 2010 |

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| **Northeast Ohio Universities College of Medicine**<br>*Project Director:* Weidong Zhao<br>(Gary Niehaus)<br>E: wzhao@neomed.edu<br>(gdn@neomed.edu)<br>P: 330-325-6414<br><br>*Mailing Address:*<br>NE Ohio Universities-College of Medicine<br>4209 St Rt 44<br>PO Box 95<br>Rootstown, OH 44272-0095 | Rapid Bacteria Detection at Cleveland Beaches<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.4: Improving Beach Monitoring for Bacteria<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project will use multiplexed, near-real-time pathogen detection technology to significantly improve decision-making about recreational beach use. This project will monitor water quality at Cleveland's Villa Angela and Euclid Beaches in 2010. | $224,988<br><br>Funded in 2010 |
| **Huron County Soil & Water Conservation District**<br>*Project Director:* Cary Allen Brickner<br>E: cary.brickner@oh.nacdnet.net<br>P: 419-668-4113 x3<br><br>*Mailing Address:*<br>Huron County SWCD<br>8 Fair Road<br>Norwalk OH 44857 | North Central Ohio Sediment Reduction Project<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.8: Watersheds Best Management practices Planning & Implementation<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project will implement the following best management practices in the Huron-Vermillion Water Basin: plant 15,000 acres of winter cover crops; install 10 acres of grassy waterways and 250 acres of filter strips. The project will reduce erosion, saving over 2,000 tonnes of soil annually, and reduce phosphorus loading by 23,250 pounds. | $812,000<br><br>Funded in 2010 |
| **Ohio Environmental Protection Agency**<br>*Project Director:* Trinka Mount<br>E: trinka.mount@epa.state.oh.us<br>P: 614-644-2146<br><br>*Mailing Address:*<br>PO Box 1049<br>Columbus, OH 43216-1049 | TMDL for Ottawa River (Lima) Watershed<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.7: Total Maximum Daily Loads<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project proposes the completion of the Total Maximum Daily Load report for the Ottawa River watershed near Lima. The project will evaluate appropriate use designations, determine which waters are impaired, and calculate pollution loads for nonpoint and point sources. The TMDL report will include actions to restore impaired stretches of the Ottawa River. | $250,000<br><br>Funded in 2010 |

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| **Ohio Environmental Protection Agency**<br>*Project Director:* Russ Gibson<br>E: russ.gibson@epa.state.oh.us<br>P: 614-644-2020<br><br>*Mailing Address:*<br>Ohio EPA<br>PO Box 1049<br>Columbus, OH 43216-1049 | Cuyahoga County Surface Water Improvement<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.8: Watersheds Best Management Practices Planning & Implementation<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project will enhance nonpoint source pollution management; stream and wetland restoration; and innovative stormwater management and green infrastructure demonstrations in Lake Erie tributaries which fall in the targeted geographic area of Cuyahoga County. This project proposes to leverage $1 million in GLRI funding with $1.5 million in state Surface Water Improvement Fund grant funds to accelerate local implementation of approved TMDL studies and nine element watershed action plans. | $1,000,000<br><br>Funded in 2010 |
| **Ohio Lake Erie Commission**<br>*Project Director:* Gail Hesse<br>E: gailhesse@ameritech.net<br>P: 419-245-2514<br><br>*Mailing Address:*<br>Ohio Lake Erie Commission<br>One Maritime Plaza, 4th Floor<br>Toledo, OH 43604 | Toledo Harbor Sediment Management and Reuse<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.9: Innovative Environmental Approaches<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | The project will create significantly enhanced native fish, bird and plant habitats in Western Lake Erie through the beneficial reuse of dredged sediment. The Toledo Harbor Sediment Management Plan will also be finalized; resulting in detailed plans for management of all material dredged from the Toledo Harbor shipping channels. | $250,000<br><br>Funded in 2010 |
| **Ohio Environmental Protection Agency**<br>*Project Director:* Trinka Mount<br>E: trinka.mount@epa.state.oh.us<br>P: 614-644-2146<br><br>*Mailing Address:*<br>Ohio EPA<br>PO Box 1049<br>Columbus, OH 43216-1049 | Phosphorous Reduction: Variable Rate Technology Program<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.6: Nearshore Waters Impairments & Stressors<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | The Ohio Lake Erie Phosphorus Task Force has linked the timing of fertilizer application, amount of fertilizer applied and method of soil incorporation to excessive nutrient inputs to the West Basin of Lake Erie. Ohio EPA will subcontract with the Conservation Act Project (CAP), to work with local agricultural dealers in NW Ohio to implement new approaches using variable rate technology for applying phosphorus and nitrogen fertilizer. Variable Rate Technology provides the analysis and field application of the proper nutrient blends and rates to prevent over application and nutrient load. Currently, CAP works with six ag-chemical dealerships that assist 5 key growers to demonstrate environmentally sound timing and rates for fertilizer application. CAP has developed a grant cost-share program with ag-chemical dealerships to develop their capacity to implement this technology with growers. This proposal would expand the cost share program to include a total of 14 ag-retailers and 70 growers in the CAP region. | $202,000<br><br>Funded in 2010 |

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| **Ohio Department of Health**<br>*Project Director:* Mary Clifton<br>E: mary.clifton@odh.ohio.gov<br>P: 614-466-6736<br><br>*Mailing Address:*<br>Ohio Department of Health<br>246 North High Street<br>Columbus, OH 43215-1049 | Improving Communication about Ohio Beach Water Quality<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.3: Communicating Beach Monitoring to the Public<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project which is being performed by the Ohio Department of Health, will include three activities: 1) development of several web-based communication systems to share information about beach health and swimming conditions with the public; 2) development of a press package for use in promoting beach health and safety; and 3) development and implementation of a poster contest to raise awareness about beach health in the nine counties surrounding Lake Erie. | $1,000,000<br><br>Funded in 2010 |
| **Ohio Department of Health**<br>*Project Director:*<br>Mary Clifton<br>E: mary.clifton@odh.ohio.gov<br>P: 614-466-6736<br><br>*Mailing Address:*<br>Ohio Department of Health<br>246 North High Street<br>Columbus, OH 43215-1049 | Sanitary Surveys to Reduce Pollution in Lake Erie<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.2: Beach Sanitary Surveys<br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | The Ohio Department of Health will partner with local health departments to conduct comprehensive beach sanitary surveys at all public beaches on the Ohio shoreline of Lake Erie. The Department of Health will then work with local beach managers, health departments and sewer districts to determine remediation activities needed to reduce the amount of bacterial contamination entering Lake Erie. | $250,000<br><br>Funded in 2010 |
| **Buffalo State College**<br>*Project Director:* Christopher M Pennuto<br>E: pennutcm@buffalostate.edu<br>P:<br><br>*Mailing Address:*<br>Buffalo State College<br>1300 Elmwood Avenue<br>Science Bldg. 264<br>Buffalo, NY 14222 | The Lake Erie Nearshore and Offshore Nutrient Study<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.C.<br><br>**FOCUS AREA:**<br>Nearshore Health & Nonpoint Source Pollution | This project will assess the causes of nutrient-related problems in the Lake Erie central and eastern basins. It will quantify the major biotic and abiotic nutrient pools, rates of nutrient movement, and trophic pathways in the nearshore and offshore regions of Lake Erie. Additionally, data will be coupled with hydrodynamic models of particle transport and phosphate source tracking to assess whether the pools of nutrients in the nearshore and offshore regions follow predicted patterns of lake mixing models. The models will be used to determine where nutrients came from and how they move from the nearshore to offshore Lake Eire, providing information to managers on now/where to address excess nutrient input. | $615,813<br><br>Funded in 2010 |

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| **Partners for Clean Streams Inc.**<br>*Project Director:* Kristina Patterson<br>E: executive.director @partnersforcleanstreams.org<br>P: 419-874-0727<br><br>*Mailing Address:*<br>P.O. Box 203<br>Perrysburg OH 43552 | Restoring Ottawa River Wetlands and Habitat<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2: Habitat Restoration in Great Lakes AOC<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | This project will restore at least 10 acres of wetland, 30 acres of associated upland habitat, and 1200 linear feet of erodible stream bank along the Ottawa River, at a 157-acre Boy Scout Camp in the Oak Openings Region of the Maumee River AOC, directly improving Lake Erie's Western Basin. | $1,365,684<br><br>Funded in 2010 |
| **The Nature Conservancy**<br>*Project Director:* Steven Woods<br>E: swoods@tnc.org<br>P: 419-867-1521<br><br>*Mailing Address:*<br>Kitty Todd Preserve<br>10420 Old State Line Road<br>Swanton OH 43558 | Wet Prairie Restoration in the Maumee Area of Concern<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2: Habitat Restoration in Great Lakes AOC<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | This project will restore habitat in the Oak Openings of Ohio by removing invasive plants, and implementing prescribed fire management on 601 acres of historic wet prairie. Changes in groundwater and other biological indicators will be monitored to evaluate success. The project will contribute to the delisting of the Maumee AOC. | $1,452,419<br><br>Funded in 2010 |
| **Cuyahoga County Engineer's Office**<br>*Project Director:* Stanley Kosilesky<br>E: skosilesky@cuyahogacounty.us<br>P: 216-348-3932<br>C: 216-244-1834<br>*Mailing Address:*<br>2100 Superior Viaduct<br>Cleveland, OH 44113 | Cuyahoga River Urban Riparian Habitat Restoration *Phase II*<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2: Habitat Restoration in Great Lakes AOC<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | This project will restore 3,000 linear feet of fish habitat within the Cuyahoga River shipping channel to promote the delisting of two remaining Beneficial Use Impairments in the Cuyahoga River Area of Concern. | $1,500,000<br><br>Funded in 2010 |
| **Cuyahoga County Soil & Water Conservation District**<br>*Project Director:* Claire Posius<br>E: cposius@cuyahogaswcd.org<br>P: 216-524-6580 x16<br><br>*Mailing Address:*<br>6100 W. Canal Road<br>Valley View OH 44125 | Restoration of Lacustrine Refuge in Cuyahoga AOC<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2: Habitat Restoration in Great Lakes AOC<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | This project will restore five acres of urban coastal wetlands and restore 1,500 linear feet of shoreline habitat in Lower Euclid Creek, a part of the Cuyahoga River AOC. The project will aid in delisting the Cuyahoga River AOC by increasing habitat for degraded fish and wildlife populations. Municipal, county, state and federal agencies will collaborate on project implementation. | $1,396,050<br><br>Funded in 2010 |

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| **The Nature Conservancy**<br>*Project Director:* Douglas Pearsall<br>E: dpearsall@tnc.org<br>P: 517-316-2259<br><br>*Mailing Address:*<br>101 E. Grand River Avenue<br>Lansing MI 48806 | Blueprints for Conservation of Biodiversity in Lakes Erie & MI<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2: Habitat Restoration in Great Lakes AOC<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | This project will develop plans for the rehabilitation, restoration, and conservation of native species and habitats in the Lake Erie and Lake Michigan basins. Using a well-established conservation planning process this project will synthesize existing habitat and species information, and facilitate collaborative protection and restoration actions among diverse and widespread partners. | $600,000<br><br>Funded in 2010 |
| **Ohio Department of Natural Resources**<br>*Project Director:* Kevin Kayle<br>E: kevin.kayle@dnr.state.oh.us<br>P: 440-352-4199<br><br>*Mailing Address:*<br>ODNR-Div. of Wildlife<br>1190 High Street<br>Fairport Harbor, OH 44077 | Cuyahoga River & Harbor AOC Habitat and Fish Characterization<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2: Habitat Restoration in Great Lakes AOC<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | This project characterizes fish habitat, usage and spawning movements, and water quality parameters in the Cuyahoga River and Harbor AOC. Habitat will be mapped using hydroacoustics, drop cameras, and substrate samples, and described using geo-referencing software. Decision-makers will use maps and data developed through this project to target and implement additional watershed protection and restoration activities. | $500,000<br><br>Funded in 2010 |
| **Ohio Environmental Council**<br>*Project Director:* Joe Logan<br>E: joe@theOEC.org<br>P: 614-487-5830<br><br>*Mailing Address:*<br>1207 Grandview Ave., Suite 201<br>Columbus OH 43212 | Coordinated Implementation Strategy for Lake Erie LaMP<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2 Implementation of LaMPs, Programs & Projects<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | The Ohio Environmental Council will coordinate the Lake Erie Lakewide Management Plan Public Forum to facilitate effective, basin-wide implementation of Lakewide Management Plan goals. The grant will be used to train new and existing Forum members to engage civic and community leaders, stakeholder groups, and local and regional media outlets to support implementation of conservation practices and increased enrollment in conservation programs that will restore and protect the Lake Erie watershed. | $242,837<br><br>Funded in 2011 |
| **Cleveland MetroParks**<br>*Project Director:* Jennifer Grieser<br>E: jmg2@clevelandmetroparks.com<br>P: 440-331-8679<br><br>*Mailing Address:*<br>Cleveland Metroparks<br>4500 Valley Parkway<br>Fairview Park, OH 44126 | West Creek Ecosystem Restoration Project<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2 Implementation of LaMPs, Programs & Projects<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | Cleveland Metroparks will use an ecosystem approach to restore the West Creek watershed, which is an urban watershed in the Cuyahoga River Area of Concern. The grant will be used for design, construction, and monitoring to determine the effectiveness of the project on nonpoint source pollution. | $294,693<br><br>Funded in 2011 |

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| **Ohio Environmental Protection Agency**<br>*Project Director:* Trinka Mount<br>E: trinka.mount@epa.state.oh.us<br>P: 614-644-2146<br><br>*Mailing Address:*<br>Ohio EPA<br>PO Box 1049<br>Columbus, OH 43216-1049 | Ohio Lake Erie Phosphorus Task Force Phase II<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2 Implementation of LaMPs, Programs & Projects<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | The Ohio EPA will reconvene the Ohio Lake Erie Phosphorus Task Force to build upon its 2010 report and broaden participation to include agri-business representatives and crop consultants. The project will incorporate current research and work to develop a broader consensus on the management actions necessary to reduce algal blooms in Lake Erie's western basin. | $122,429<br><br>Funded in 2011 |
| **Ohio Department of Natural Resources**<br>*Project Director:* Mary Fitch<br>E: mary.fitch@dnr.state.oh.us<br>P: 614-265-6477<br><br>*Mailing Address:*<br>ODNR-Div. of Parks<br>835 Edgewater Drive<br>St. Mary's, OH 45885 | North Bass Island Habitat Restoration<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.4: Restoring Great Lakes Habitats<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | This project restores large areas of upland vegetative habitat on North Bass Island, a park in the Ohio State Parks system. This project will improve island woodland habitat, which will benefit both wildlife and park visitors. Approximately 68,000 bare root seedlings will be planted at a rate of 680 trees per acre. One-thousand one gallon container trees will also be planted on approximately 100 acres by volunteers. The restoration project will accelerate the island's return to pre-agricultural conditions. Once complete, this project will be highlighted within a future issue of the Ohio State Parks magazine. | $125,000<br><br>Funded in 2010 |
| **Ohio Department of Natural Resources**<br>*Project Director:* Mary Fitch<br>E: mary.fitch@dnr.state.oh.us<br>P: 614-265-6477<br><br>*Mailing Address:*<br>ODNR-Div. of Parks<br>835 Edgewater Drive<br>St. Mary's, OH 45885 | Reforestation of Maumee Bay & Mary Jane Thurston State Parks<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.4: Restoring Great Lakes Habitats<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | This project is intended to reforest Maumee Bay and Thurston State Parks which have sustained extensive losses of Ash trees due to the Emerald Ash Borer. Damaged trees are being removed at Maumee Bay State Park and 500 replacement trees are needed. At Thurston State Park, 159 trees must be removed due to Emerald Ash Borer infestation. Replacement trees will restore the shade, prevent soil erosion, restore carbon sequestration capacity, and maintain riparian forest habitat. | $168,000<br><br>Funded in 2010 |

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| **Ohio Environmental Protection Agency**<br>*Project Director:* Amy Jo Klei<br>E: amyjo.klei@epa.state.oh.us<br>P: 614-644-2146<br><br>*Mailing Address:*<br>Ohio EPA<br>PO Box 1049<br>Columbus, OH 43216-1049 | Ashtabula River Area of Concern Habitat Restoration<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.D.2: Habitat Restoration in Great Lakes AOC<br>**FOCUS AREA:**<br>Habitat & Wildlife Protection/Restoration | Approximately 1400 ft. of fish habitat shelves will be installed along the east bank of the Ashtabula River AOC. Since contaminated sediment has been remediated, habitat restoration is the next step to restore and delist the AOC. Combined with several other complementary habitat projects in the same area, this effort will lead directly to delisting three Beneficial Use Impairments (degraded fish populations, degraded benthos, and loss of fish habitat) for this AOC. | $1,500,000<br><br>Funded in 2010 |
| **Ohio Environmental Protection Agency**<br>*Project Director:* Trinka Mount<br>E: trinka.mount@epa.state.oh.us<br>P: 614-644-2146<br><br>*Mailing Address:*<br>Ohio EPA<br>PO Box 1049<br>Columbus, OH 43215-1049 | Lake Erie Nearshore Monitoring Program<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.E.4: Annual Comprehensive Nearshore Monitoring Prediction<br>**FOCUS AREA:**<br>Accountability, Evaluation, Monitoring, Communication & Partnerships | This grant provides resources for a comprehensive monitoring program to assess the nearshore Lake Erie water quality. The project will initially build on the 2010 National Coastal Assessment framework by adding ambient sites, plankton, and additional parameters. Subsequent years will focus on harbors, bays, and estuaries, as well as evaluation of biological communities at various trophic levels. | $1,195,000<br><br>Funded in 2010 |
| **Ohio Lake Erie Commission**<br>*Project Director:* Gail Hesse<br>E: gail.hesse@ameritech.net<br>P: 419-245-2514<br><br>*Mailing Address:*<br>Ohio Lake Erie Commission<br>One Maritime Plaza, 4th Floor<br>Toledo, OH 43604 | Lake Erie Synthesis and Coordination Team<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.E.2: Coordinated Implementation of LaMPs, Programs, & Projects<br>**FOCUS AREA:**<br>Accountability, Evaluation, Monitoring, Communication & Partnerships | This project will coordinate existing and ongoing scientific research, which, in turn, will enhance the cumulative value and impact of the research and improve the environmental management decision-making process. | $200,000<br><br>Funded in 2010 |

| BASIN WIDE GRANTS - OHIO SEA GRANT | | | |
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| **Grant Recipient** | **Project Title** | **Project Description** | **GLRI Funding Amount** |
| **Ohio Sea Grant**<br>*Project Director:* David Kelch<br>E: kelch.3@osu.edu<br>P: 440-326-5858<br><br>*Mailing Address:*<br>Lorain County Extension<br>42110 Russia Road<br>Elyria, Ohio 44035 | A Comprehensive Regional Public Outreach Campaign on AIS (U. MN)<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.B.2: Invasive Species Prevention and Control Grant Program<br>**FOCUS AREA:**<br>Invasive Species | This initiative is a collaborative effort of the Great Lakes Sea Grant Network (GLSGN) to target 15 most egregious pathways by which aquatic invasive species (AIS) are spread and focus comprehensive educational outreach efforts to reach these specific audiences aimed at preventing new and containing existing AIS infestations. The project will employ new and improved outreach messages and products, reaching 40+ coastal and inland communities across all five Great Lakes. This cooperative approach leverages the multiple strategies and resources of such outreach campaigns as Stop Aquatic Hitchhikers!™, Nab the Aquatic Invader, Habitattitude™, and AIS-HACCP, and adds new Web-based and social networking components to insure that best practices are used to improve AIS regional public education efforts. | $147,704<br><br>Funded in 2010 |
| **Ohio Sea Grant**<br>*Project Director:* David Kelch<br>E: kelch.3@osu.edu<br>P: 440-326-5858<br><br>*Mailing Address:*<br>Lorain County Extension<br>42110 Russia Road<br>Elyria, Ohio 44035 | Undo the Great Lakes Chemical Brew; Proper PPCP Disposal (PSU)<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.A.9: Pollution Prevention and Toxics Reduction in the Great Lakes<br>**FOCUS AREA:**<br>Toxic Substances and Areas of Concern | Traces of chemicals from pharmaceutical and personal care products (PPCPs) have been found in many waters tested in the United States. Proper disposal of these chemical-laden products will avoid harm to fish and other aquatic wildlife, as well as drug misuse or accidental poisoning in humans. Many sectors of society play a role in the creation, dispensation, consumption, and disposal of these products. This project combines outreach with action to educate Great Lakes basin residents on proper disposal and to facilitate additional collection events of unused or expired PPCPs. | $66,748<br><br>Funded in 2010 |

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| **Ohio Sea Grant**<br>*Project Director:* Jill Jentes<br>E: jentes.1@osu.edu<br>P: 614-292-8975<br><br>*Mailing Address:*<br>Ohio Sea Grant<br>1314 Kinnear Road<br>Columbus, Ohio 44012-1156 | Green Marina Outreach & Education Project (U. MI)<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.E.2: Coordinated Implementation of LaMPs, Programs, & Projects<br>**FOCUS AREA:**<br>Accountability, Evaluation, Monitoring, Communication & Partnerships | The Green Marina Education and Outreach project is a strategic collaboration to reduce or eliminate on-point source pollution and toxic substances from entering the Great Lakes through marina activities. This project will improve and expand existing Clean Marina programs by developing consistent best practices for marinas in the Great Lakes region, creating uniform certification standards for marinas, boatyards and harbors, expanding online training and education, hosting webinars, and conducting a workshop to examine best practices for pressure washing and underwater hull cleaning. | $48,135<br><br>Funded in 2010 |
| **Ohio Sea Grant**<br>*Project Director:* Frank Lichtkoppler<br>E: flichtkoppler@lakecountyohio.gov<br>P: 440-350-2267<br><br>*Mailing Address:*<br>99 East Erie Street<br>Painesville, Ohio 44077 | GLOS Adaptive Management Needs Assessment (GLOS, Inc.)<br>**PROGRAM AREA & TOPIC GROUP:**<br>I.E.2: Coordinated Implementation of LaMPs, Programs, & Projects<br>**FOCUS AREA:**<br>Accountability, Evaluation, Monitoring, Communication & Partnerships | Develop an adaptive management Needs Gap Analysis for potential GLOS user groups and identify priority user groups for future needs assessments and work closely with representatives from three priority user communities – public health managers, Area of Concern/Lakewide Management Plan managers and fishery managers – to: 1) Conduct Needs Assessments to determine/ confirm data and information (e.g., forecasts and other model outputs) needs which will help inform GLOS product development; and 2) Use needs assessments to identify strategies for developing/refining tools, training and web applications to maximize usability of data by priority communities. | $180,000<br><br>Funded in 2010 |