

September 2017




**Ohio EPA Program Summary
Nonpoint Source Program**

FY2017 Annual Report



Eastern Cottontail Rabbit
Photo by Russ Gibson



John Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

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Attachments

- Attachment 1 – Final Project Fact Sheets – Section 319(h) Subgrants
- Attachment 2 – Great Lakes Restoration Initiative Grants - Final Project Fact Sheets – Lucas County
- Attachment 3 – Great Lakes Restoration Initiative Grants - Final Project Fact Sheets – FY12 Cuyahoga County GLRI/SWIF Project
- Attachment 4 - Great Lakes Restoration Initiative Grants - Final Project Fact Sheets – Upper Blanchard River Watershed Reduction, Powell Creek Nutrient Reduction, and Lake Erie Nutrient Reduction Demonstration
- Attachment 5 - NPS Pollution Load Reduction Tables, FFY2001 through 2017 Projects



Nonpoint Source Management Program Ohio Environmental Protection Agency Division of Surface Water

Introduction: Ohio's Nonpoint Source (NPS) Program is the NPS Management Plan that was approved by US EPA in June 2014 and Ohio's Nutrient Reduction Strategy that is currently in the process of being updated. Provisions of these updated plans effectively guide Ohio's implementation of state and local nonpoint source management measures and activities through 2019. Ohio's updated Nonpoint Source Management Plan may be found by visiting: http://epa.ohio.gov/Portals/35/nps/NPS_Mgmt_Plan.pdf.

In Ohio, the four (4) most common nonpoint source causes of water quality impairment are hydromodification, habitat alteration, nutrients and silt/sediments. Ohio's updated plan tackles these high magnitude causes of impairment with cause-specific strategies. These four discrete strategies include:

- **Urban Sediment and Nutrient Reduction Strategies**
- **Altered Stream and Habitat Restoration Strategies**
- **Nonpoint Source Reduction Strategies**
- **High Quality Waters Protection Strategies**

These strategies include goals which are further refined to include objectives and milestones designed to provide meaningful evaluation points as well as more finely honed focus for program activities. An important tool for focusing limited resources on a problem as ubiquitous as nonpoint source pollution is the establishment of measurable milestones—those specific achievements and/or deliverables that we are striving to attain. Like a long journey, each success starts with first one step then another and another until we can look back and see where we've been and also more clearly identify measurable improvements.

Progress toward achieving the environmental measures of Ohio's Nonpoint Source Program will continue to be part of Ohio's NPS Monitoring and Assessment Initiative. During each of the past five (5) years, Ohio EPA staff conducted all monitoring (physical, chemical, and biological), beginning with baseline monitoring through project completion to determine the effectiveness of §319 (h) and SWIF funded nonpoint source projects. This initiative not only provides cost savings and improved data quality, but also relieves grant recipients of a task which was often difficult for them to do properly. This initiative also serves as a very important tool for measuring the environmental effectiveness of Ohio's Nonpoint Source Management Program. Are NPS-funded projects improving water quality or not? For example, one environmental program measure that Ohio EPA will be using is the number of SP-12 watersheds that have shown improvement during the reporting period.

In addition to the above referenced environmental measures, Ohio's NPS Program also tracks a variety of administrative measures that are designed to measure the effectiveness of Ohio's NPS Program administration and management including:

1. Timeliness and quality of report submittals to US EPA
2. Timeliness of federal fund obligation with state program partners and sub-grantees
3. Grantee interest and competition – to be measured by:
 - Number of applicants per grant cycle
 - Number of projects completed on time
4. Federal Grants Administration
 - Submittal of recommended subgrant work plans to Region 5 US EPA
 - Timely submittal of Section 319(h) grant application and annual work plan
 - Percentage of grant funds expended effectively
 - GRTS data entry status
 - Timely drawdown of federal funds
5. Participation at all required meetings, conferences and other events outlined in the Programmatic Conditions section of Ohio’s grant agreement with US EPA.
6. Ohio EPA Core Programming will comply with FY12 National Program Guidelines.

Grants Management and Administration: During FY16 Ohio EPA received \$4,721,000 in federal Section 319(h) grant funds under provisions of US EPA Grant C9-97550015 to implement Ohio’s updated Nonpoint Source (NPS) Management Program. Ohio EPA’s Division of Surface Water provides primary coordination and implementation of Ohio’s NPS program with assistance from other federal, state and local partners. Under provisions of the FY12 National Section 319 program guidance, at least 50% of these funds (\$2,076,750) are to be awarded as subgrants to provide critical funding for local NPS implementation projects. To date, Ohio EPA has awarded \$2,475,905 (or 52.4%) of its FY16 allocation for subgrant funded projects. Ohio EPA is in full compliance with the FY12 guidance requiring 50% of a state’s allocation should go to watershed projects.

A crucial component of Ohio’s nonpoint source program is the effective management of the subgrants awarded each year by Ohio EPA to local organizations for the implementation of nonpoint source management projects such as dam removals, stream restoration, nutrient reduction practices and others. In this reporting period, Ohio EPA’s NPS Program administered 14 federal grants including 6 Section 319 grants totaling nearly \$25 million and 7 Great Lakes Restoration Initiative (GLRI) grant totaling more than \$7.5 million. During the reporting period, 7 of those grants completed activities and were closed or are in the process of being closed. Following is a listing of the federal grants that were managed by Ohio’s Nonpoint Source Program during the reporting period:

- FY11 Section 319 Grant C9975500011 – Grant closed in 2016
- FY11 Buckeye Lake Grant C900E00782 – Grant closed in 2016
- FY11 Lake Erie Nutrient Reduction GLRI Grant GL-00E0836-0 – Grant closed in 2016
- FY12 Section 319 Grant C9975500012 – Grant closes 10/15/16
- FY12 Powell Creek Nutrient Reduction GLRI Grant GL-00E01131 – Grant closes 07/30/17
- FY12 Upper Blanchard Watershed GLRI Grant GL-00E01020-1 – Grant closed in 2016
- FY12 Cuyahoga County SWIF/GLRI Grant GL-00E00395-0 – Grant closed in 2016
- FY12 Lucas County SWIF/GLRI Grant GL-00E01132 – Grant closed in 2016
- FY13 Section 319 Grant C997550013 – Grant Closes 6/30/2017

- FY14 Section 319 Grant C9975500014 – Grant Closes 6/30/18
- FY14 Maumee River Sediment Reduction GLRI Grant GL00E01449 – Grant Closes 6/30/19
- FY14 Broken Sword Nutrient Reduction GLRI Grant GL-00E01456 – Grant Closes 2/28/18
- FY14 Cuyahoga AOC Strategic Planning Grant GL-00E01357—Grant Closes 8/30/16
- FY15 Section 319 Grant C9975500015—Grant Closes 4/15/20
- FY16 Section 319 Grant C9975500016—Grant Closes 4/15/21
- FY17 Section 319 Grant C9975500017—Grant Closes 4/15/22

Section 319(h) Grants Management and Administration

Ohio EPA’s NPS Program is implemented largely through subgrants passed through to local implementers. A minimum of 50% of Ohio’s Section 319 Program grants must be passed through to local implementers to comply with FY12 National Section 319 Guidance. During 2017 Ohio EPA passed through more than \$2.3 million of its FY17 Section 319 grant award of \$4,882,000 or about 48%. We anticipate making additional subgrants to meet the 50% pass through requirement.

In response to the FY17 Request for Proposals (RFP) that was issued on July 20, 2016, Ohio EPA received 17 applications requesting \$3.08 million. By funding three projects with FY12 and FY14 available funds we were fortunate to be able to award subgrants to all applicants.

**Table 1-1
Ohio EPA FY17 Section 319(h) Subgrants Awarded**

Project	Grantee	Project Type	Requested
17(h)EPA-02	ODA-Division of Soil & Water	Grand Lake St Mary Assistance	\$202,000
17(h)EPA-03	ODNR-Mineral Resources	Regional AMD Watershed Support	\$100,000
17(h)EPA-05	Lake County	Stream Restoration	\$88,426
17(h)EPA-06	City of Lancaster	Stream Restoration	\$180,000
17(h)EPA-07	City of Reading	Stream Restoration	\$185,000
17(h)EPA-08	Ohio University	Acid Mine Drainage Abatement	\$287,591
17(h)EPA-09	City of Kirtland	Stream Restoration	\$150,00
17(h)EPA-10	Village of Chagrin Falls	Stream Restoration	\$88,800
17(h)EPA-12	Franklin County SWCD	Stream Restoration	\$48,265
17(h)EPA-14	Summit County Metroparks	Stream Restoration	\$200,000
17(h)EPA-15	Cuyahoga County SWCD	Stream Restoration	\$199,000
17(h)EPA-17	City of Akron	Stream Restoration	\$237,914
17(h)EPA-18	Village of North Perry	Stream Restoration	\$120,000
17(h)EPA-19	City of Solon	Stream Restoration	\$165,000
17(h)EPA-20	Cuyahoga County SWCD	Stream Restoration	\$156,462
17(h)EPA-21	Chagrin Falls	Stream Restoration	\$88,000
Total Federal 319(h) Implementation Funds Awarded			\$2,346,608

During the reporting period Ohio’s NPS Program staff managed 46 previously funded and active Section 319 subgrants. 18 of these projects were completed and the subgrants closed out during the reporting period. All required information for each subgrant has been updated and included in the federal Grants

Reporting and Tracking System (GRTS). The following tables identify the currently active previous years' Section 319 funded subgrants being administered by Ohio EPA's NPS Program:

Table 1-2
Ohio EPA FY16 Section 319(h) Subgrants STILL ACTIVE

Project	Grantee	Project Type	Awarded	Expenditure	% Spent
16(h)EPA-02	ODA- Soil & Water	GLSM	\$202,000	\$0	0%
16(h)EPA-03	ODNR-DMRM	Regional Watershed Support	\$100,000	\$66,616	66.6%
16(h)EPA-09	Holmes County SWCD	Nutrient Reduction BMPs	\$124,852	\$956	<1%
16(h)EPA-10	City of Wyoming	Stream Restoration	\$186,131	\$66,951	36%
16(h)EPA-13	City of Cincinnati	Dam Removal/Modification	\$309,000	\$19,387	6.3%
16(h)EPA-14	West Creek Conservancy	Regional Watershed Support	\$250,000	\$79,070	31.6%
16(h)EPA-16	City of Cuyahoga Falls	Stream Restoration	\$133,299	\$0	0%
16(h)EPA-19	Village of Hunting Valley	Stream Restoration	\$243,000	\$0	0%
16(h)EPA-25	Lorain County	Wetland Restoration	\$295,000	\$0	0%
16(h)EPA-26	Putnam County SWCD	Nutrient Reduction BMPs	\$285,638	\$44,311	15.5%
16(h)EPA-27	Cleveland Metroparks	Wetland Restoration	\$81,373	\$2,729	3.4%
Total Federal 319(h) Implementation Funds Awarded			\$2,403,859	\$432,003	17.9%

Table 1-3
Ohio EPA FY15 Section 319(h) Subgrants STILL ACTIVE

Project Number	Project Sponsor	Project Type	Awarded	Expenditure	% Spent
15(h)EPA-14	GLSM Lake Facilities Authority	Wetland Restoration	\$312,500	\$32,137	10.2%
15(h)EPA-16	Clermont County SWCD	Stream Restoration	\$90,458	\$31,579	34.8%
15(h)EPA-25	City of Blue Ash	Stream Restoration	\$258,000	\$258,000	100%
15(h)EPA-27	Cleveland Metroparks	Stormwater Demo	\$340,017	\$215,979	63.5%
15(h)EPA-28	Wood County SWCD	Agricultural BMPs	\$166,533	\$33,678	20.0%
15(h)EPA-29	Defiance County SWCD	Agricultural BMPs	\$366,493	\$65,875	18.0%
15(h)EPA-32	City of Mason	Stream Restoration	\$222,000	\$128,029	57.7%
			\$1,756,001	\$765,277	43.5%

Table 1-4
Ohio EPA FY14 Section 319(h) Subgrants Awarded STILL ACTIVE

Project	Project Sponsor	Type of Project	Awarded	Expenditure	% Spent
14(h)EPA-12	City of Stow	Stream Restoration	\$248,787	\$248,787	100%
14(h)EPA-24	Ottawa SWCD	Agricultural BMPs	\$146,325	\$126,848	86.7%
14(h)EPA-26	Cleveland Metroparks	Stream Restoration	\$144,000	\$37,867	26.3%
14(h)EPA-28	City of Broadview Heights	Stormwater Demo	\$300,000	\$0	0%
14(h)EPA-31	Mill Creek Watershed Council	Watershed Assistance	\$299,905	\$177,357	59.1%
14(h)EPA-32	Ohio University	Watershed Assistance	\$250,000	\$78,469	31.4%
			\$ 1,389,017	\$669,328	51.0%

**Table 1-5
Ohio EPA FY13 Section 319(h) Subgrants STILL ACTIVE**

Project Number	Project Sponsor	Type of Project	Awarded	Expenditure	% Spent
13(h)EPA-16	City of Medina	Stream Restoration	\$197,075	\$155,098	78.7%
TOTALS			\$197,075	\$155,098	78.7%

During the reporting period 18 Section 319(h) subgrant funded projects were completed and their subgrants closed out. Final fiscal and progress reports were received and final payments were made to the subgrantees. Following is a listing of those Section 319 subgrant-funded projects that were completed and closed during the FY16 reporting period.

FY12 Section 319(h) Subgrants Closed during the Reporting Period

12(h)EPA-43 Cleveland Port Authority

FY13 Section 319(h) Subgrants Closed during the Reporting Period

13(h)EPA-21 City of Hilliard

13(h)EPA-LEW-69 Olander Park System

FY14 Section 319(h) Subgrants Closed during the Reporting Period

14(h)EPA-02 Ohio Dept. of Agriculture-Soil and Water Resources

14(h)EPA-10 City of Delaware

14(h)EPA-12 City of Stow

14(h)EPA-13 City of Lancaster

14(h)EPA-14 Rural Action

14(h)EPA-18 Village of Reminderville

14(h)EPA-19 Madison Village

14(h)EPA-20 City of Huron

14(h)EPA-23 Liberty Township-GRANT TERMINATED

14(h)EPA-25 City of Solon

14(h)EPA-26 Cleveland Metroparks

14(h)EPA-28 City of Broadview Heights-GRANT TERMINATED

FY15 Section 319(h) Subgrants Closed during the Reporting Period

15(h)EPA-02 Ohio Dept. of Agriculture-Soil and Water Resources

15(h)EPA-09 City of Gahanna

15(h)EPA-15 Springfield Township-GRANT TERMINATED

15(h)EPA-18 City of Lakewood

15(h)EPA-19 Bainbridge Township

15(h)EPA-20 Olmsted Falls

15(h)EPA-23 Village of Marshallville

FY16 Section 319(h) Subgrants Closed during the Reporting Period

16(h)EPA-17	City of Fairview Park-GRANT TERMINATED
16(h)EPA-30P	Mercer County SWCD
16(h)EPA-32P	Clermont County SWCD
16(h)EPA-34P	City of Toledo
16(h)EPA-35P	West Creek Conservancy
16(h)EPA-38P	Lake County SWCD
16(h)EPA-39P	Franklin County SWCD
16(h)EPA-40P	City of Akron
16(h)EPA-41P	Olander Park System

Maintaining effective oversight and providing technical assistance (when needed) are activities that help insure timely implementation and financial management of Section 319(h) subgrants by local project sponsors. Conducting regular site visits is the primary tool that we use to be sure that projects are progressing appropriately and observing project sites upon completion to insure consistency with grant awards. During the reporting period, Ohio EPA's NPS Program staff completed site visits with the following project implementers:

FY12 Section 319(h) Project Site Visits Completed

12(h)EPA-43	Cleveland Port Authority-Cleveland Hopkins Airport Green Roof Project
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FY13 Section 319(h) Project Site Visits Completed

13(h) EPA-20	Mercer County Commissioners-Prairie Creek Treatment Train Enhancement
13(h) EPA-21	City of Hilliard-Clover Groff Run Stream Restoration

FY14 Section 319(h) Project site Visits Completed

14(h)EPA-12	City of Stow-Lower Cuyahoga Mud Brook Stream Restoration Project
14(h)EPA-19	Madison Village-Arcola Creek Headwaters Stream Restoration Project
14(h)EPA-24	Ottawa County SWCD-Agricultural Best Management Practices
14(h)EPA-31	Mill Creek Watershed Council-Regional Watershed Implementation Center
14(h)EPA-32	Ohio University-Southeast Ohio Regional Watershed Implementation Center

FY15 Section 319(h) Project Site Visits Completed

15(h)EPA-09	City of Gahanna-Farm Creek Subdivision Green Street Demonstration Project
15(h)EPA-14	Grand Lakes Facilities Authority- Beaver Creek Vegetative Treatment Train
15(h)EPA-18	City of Lakewood-Rocky River Streambank Restoration and Fish Shelf
15(h)EPA-23	Village of Marshallville-Green Stormwater Demonstration
15(h)EPA-27	Cleveland Metroparks-Seneca Lot Retrofit/Acacia Stream Restoration
15(h)EPA-29	Defiance County SWCD-Agricultural Best Management Practices
15(h)EPA-28	Wood County SWCD-Agricultural Best Management Practices

FY16 Section 319(h) Project Site Visits Completed

16(h)EPA-03	ODNR-Mineral Resources Management
16(h)EPA-25	Lorain County Development Department-Clinton Ditch Wetland Restoration
16(h)EPA-26	Putnam County SWCD-Agricultural Best Management Practices
16(h)EPA-27	Cleveland Metroparks-Marek Pond Dam Removal and Wetland Restoration

US EPA Great Lakes Restoration Initiative Grants



Ohio's NPS Program staff has been fortunate to apply for, receive and manage 6 currently active federal Great Lakes Restoration Initiative (GLRI) grants. During the reporting period, the NPS Program managed 43 subgrants awarded by Ohio EPA under these GLRI funded initiatives. Final Fact Sheets for GLRI subgrant funded projects closed out during the reporting period may be found in Attachments 2, 3 and 4.

FY11 Lake Erie Nutrient Reduction Demonstration Project Federal Grant GL-00E0836-0 State ID NUTR11

Ohio EPA applied for and received an FY11 Great Lakes Restoration Initiative federal grant GL-00E00836-0 in the amount of \$546,417 to implement a series of targeted nutrient reduction practices in the Loss Creek subwatershed to the Sandusky River. The last subgrant project awarded under this grant completed work and was closed 10/26/15.

Successful implementation of the Lake Erie Nutrient Reduction Demonstration Project resulted in the completion of the following deliverables:

- 1,949 acres of cover crops
- 23 controlled drainage structures managing drainage water on 594 acres
- 1,046 acres of conventional tillage converted to variable rate strip tillage
- Nutrient management plans covering 5,343 acres including 58 whole farm management plans
- 2 grassed waterways installed
- 6.3 acres of riparian filter strips
- 175 linear feet of severely eroding streambank stabilized and restored
- 1 manure storage system
- 52 whole farm conservation plans completed
- 1,250 square feet of permeable pavement installed
- 750 square feet of passive treatment installed under pavers
- 375 square feet of rain garden
- 1,750 square feet of vegetated infiltration area

FY12 Lucas County GLRI-Surface Water Improvement Stormwater Demonstration Project Federal Grant GL-00E1132 State Grant ID LUCA12

Ohio EPA received FY12 Great Lakes Restoration Initiative Grant GL-00E01132 on 10/5/12 in the amount of \$749,839 to provide subgrant funding to local organizations within Lucas County to implement 17 green stormwater demonstration projects. All projects funded with subgrants under this grant have been completed and closed.

Following is a summary of deliverables that were completed under subgrants awarded under this grant:

- 33,500 square feet of permeable pavers and/or pavement
- 18,665 square feet of bio-filtration areas

- 12,900 square feet of community scale rain gardens
- 1 passive stormwater treatment train
- 2 rainwater collection and reuse systems
- 7 acres of wetlands restored
- 4,074 linear feet of 2-stage channel constructed
- Provided 177 days of Goose/Gull control with trained dogs
- Planted 4,800 native Ohio wetland plugs and 30 native shrubs
- Significant public education and outreach activities

FY12 Cuyahoga County GLRI-Surface Water Improvement Project Grant
Federal Grant GL-00E1137
State Grant ID CUYA12

Ohio EPA applied for and received GLRI grant GL-00E1137 in the amount of \$996,902 to implement 18 local green stormwater demonstration and nonpoint source management project in Cuyahoga County, Ohio. \$1.4 million in state SWIF funding was provided by Ohio EPA to increase the project total to \$2.3 million. All projects have been completed and this grant has been closed.

The successful implementation of the projects funded by the FY12 Cuyahoga County GLRI-SWIF Project resulted in completion of the following deliverables:

- Installed 101,697 square feet of permeable pavers and/or pavement
- Installed 24,489 square feet of bio-filtration areas
- Installed 10,400 square feet of community-scale rain gardens
- Installed 8 passive stormwater treatment trains
- Restored 2.2 acres of wetlands
- Restored and stabilized 2,677 linear feet of riparian areas
- Restored 675 linear feet of stream channel
- Installed 4 stormwater tree boxes
- All projects conducted multiple public outreach events such as project tours

All FY12 Cuyahoga GLRI and/or Match funded subgrants were completed and their subgrants closed out prior to 10/1/15. Final fiscal and progress reports were received and final payments were made to the subgrantees and the subgrant files within the national GLAS database were updated. Ohio EPA submitted a Final Report for this grant to US EPA-Region 5 on July 12, 2016.

FY12 Upper Blanchard Watershed Phosphorus Reduction Initiative
Federal Grant GL-00E01020-1
State ID BLAN12

The Upper Blanchard River Phosphorus Reduction Initiative commenced in 2012 when Ohio EPA applied for and received GLRI Grant GL-00E01020-1 in the amount of \$631,572 on 10/10/12 from US EPA's Great Lakes National Program Office. The project was a collaboration among Ohio EPA, GLNPO, the Blanchard River Watershed Partners, Hancock County SWCD, University of Findlay and the city of Findlay. With Hancock County SWCD taking lead, the project is designed to demonstrate various phosphorus reduction practices in both rural and urban areas. All subgrants awarded under this project have been completed and closed.

Successful implementation of the Upper Blanchard Watershed Phosphorus Reduction Initiative resulted in the completion of the following deliverables:

Deliverables	Workplan	Completed	% Complete
Plant Cover Crops	1,700 acres	2,440 acres	143%
Filter Strips/Riparian Buffers	180 acres	20 acres	<1 %
Grass Waterways	15 acres	15 acres	26%
Conservation Tillage	500 acres	1,268 acres	253%
Repair Tile Main Blowouts	10 repairs	20 repairs	200%
Nutrient Management Planning	1,000 acres	5,343 acres	534%
Livestock Exclusion Fencing	2,500 linear feet	0	0%
Treat acres w/controlled drainage	20 acres	20 acres	100%
Riparian Tree Planting	5 acres	1.6 acres	32%
Restore/Replace Failing HSTS Systems	10 systems	0 systems	0%
Remove Invasive Species	5 acres	5 acres	100%
Install demonstration rain garden	1 rain garden	1 rain garden	100%
Restore Wetlands	5 acres	15 acres	300%

FY12 Powell Creek Nutrient Reduction Demonstration Project
Federal Grant GL-00E001131
State ID POWL12

The Powell Creek Nutrient Reduction Project was a GLRI funded joint effort between Ohio EPA, Defiance and Putnam County Soil & Water Conservation Districts and the Defiance County Health Department. All subgrant funded projects have been completed and the grant has been closed.

Implementation of the Powell Creek Nutrient Reduction Project resulted in completion of the following practices:

- A saturated buffer was installed treating 25 acres
- Three (3) runoff wetland treatment areas totaling more than 16 acres
- 4,215 acres of cover crops planted
- 32 controlled drainage structures installed
- 8 grade stabilization structures installed
- Treated 725 acres of cropland with gypsum
- 2 nutrient management plans completed covering 1,274 acres
- 1,274 acres of cropland were converted to variable rate technology
- 4 failing home sewage treatment systems were replaced

FY14 Maumee Sediment and Nutrient Reduction Initiative
Federal Grant GL-00E001449
State ID SEDM14

The Maumee Sediment and Nutrient Reduction Initiative is a collaboration of 11 partners including GLNPO, Ohio EPA, Ohio State University, Putnam County SWCD, Pheasants Forever, Nature Conservancy, Toledo Metroparks, TMACOG, Black Swamp Conservancy and the Lucas County Land Bank. The initiative will demonstrate multiple innovative methods for reducing sediment and nutrient loss from urban, suburban and agricultural landscapes. The project is funded with a \$3,696,182 2014 Great Lakes Restoration Initiative grant awarded for the 5-year period starting in 2014 and extending through 2019.

Maumee Sediment and Nutrient Reduction Initiative
 Subgrant Partners and Expenditure Rates

Project	Subgrant Sponsor/Recipient	Awarded	Expenditures	%Spent	
NATURE1-FDSEDM14	Putnam County SWCD	\$285,400	\$162,462	59.6%	
OSU-FDSEDM14	Ohio State University	\$293,200	\$215,214	73.4%	
NATURE1-FDSEDM14	Nature Conservancy-Outreach	\$125,000	\$6,105	4.9%	
NATURE2-FDSEDM14	Nature Conservancy-Lakeplain	\$120,000	\$71,322	59.4%	
PHEASA-FDSEDM14	Pheasants Forever	\$325,000	\$315,241	97%	
SWAMP-FDSEDM14	Black Swamp Conservancy	\$100,000	\$100,000	100%	
TMACOG-FDSEDM14	TMACOG	\$250,000	\$187,410	75%	
SWAMP2-FDSEDM14	Black Swamp Conservancy 2	\$507,500	\$507,500	100%	
DEFI-FDSEDM14	City of Defiance	\$400,000	\$50,607	12.7%	
WRIGHT-FDSEDM14	Wright State University	\$79,584	\$8,753	11%	
TOLMP-FDSEDM14	Toledo Metroparks	\$458,000	\$0	0%*	
OSU2-FDSEDM14	Ohio State University 2	\$199,964	\$0	0%*	
*Subgrants marked with an asterisk only recently have been awarded. Construction has not yet commenced.		TOTALS	\$3,143,648	\$1,624,614	51.6%

The following table identifies the various management practices that are being implemented under this initiative.

Status of Deliverables the Maumee Sediment and Nutrient Reduction Initiative
 Status is current as of 7/31/16

Environmental Output	Implementing Partner	Target Number	Cumulative Results to date	% Complete	Acres to be Treated
Tile Blowouts Repaired	Putnam County SWCD	45 repairs	50 Repairs	111%	900 acres
2-Stage Ditch Constructed	Putnam County SWCD	6000 linear feet	4400 linear feet	73%	5,400 acres
Grass Surface Drains Installed	Putnam County SWCD	44,400 linear feet	40,577 linear feet	91.3%	620 acres

Environmental Output	Implementing Partner	Target Number	Cumulative Results to date	% Complete	Acres to be Treated
Install Blind Inlets	Putnam County SWCD	30 blind inlets	3 blind inlet	10%	300 acres
Implement Drainage Water Mgmt	Multiple Partners	286 acres	196 acres	69%	286 acres
Drainage Water Control Structures	Putnam County SWCD	10 structures	4 structures	40%	200 acres
Quality Assurance Plan Completed	Ohio State University	1 QAPP	1 QAPP	100%	n/a
Woodchip Bioreactors	Ohio State University	2 bioreactors	0 bioreactors	Starts 2017	40 acres
Phosphorus Filters	Ohio State University	2 filters	0 filters	Starts 2017	40 acres
Subgrant Training and Kick off	Ohio EPA	7 grantees	7 grantees	100%	n/a
Execute Subgrant Agreements	Ohio EPA	8 agreements	8 agreements	100%	n/a
Install Drainage Wetlands	Pheasants Forever	3 acres	2.9 acres	100%	136 acres
Plant Cover/Manure Crops	Pheasants Forever	136 acres	0 acres	0%	136 acres
Saturated Buffers	Pheasants Forever	1 Buffer	1 buffer	100%	60 acres
Riparian Restoration/Replanting	Pheasants Forever	12 acres	3 acres	25%	12 acres
Drainage Water Control Structures	Pheasants Forever	4 structures	4 structures	100%	136 acres
Restore Floodplain and Stream	Black Swamp Cons.	3500 linear feet	3500 linear feet	100%	4.1 acres
Sediment and Erosion Control	Black Swamp Cons.	1 structure	1 structures	100%	n/a
Restore Natural Streambank	Black Swamp Cons.	3500 linear feet	3500 linear feet	100%	30 acres
Stabilize Eroding Streambank	Black Swamp Cons.	500 linear feet	3500 linear feet	700%	2.8 acres
Treat/Remove Invasive Species	Black Swamp Cons.	50 acres	50 acres	100%	50 acres
Restore Wetlands	Black Swamp Cons.	45 acres	45 acres	100%	45 acres
Restore Riparian Areas	Black Swamp Cons.	60 acres	60 acres	100%	60 acres
Reconstruct and Restore Wetlands	Nature Conservancy	14 acres	0 acres	Starts 2017	14 acres
Plant Wetland Species	Nature Conservancy	10 acres	0 acres	Starts 2017	10 acres
Treat/Remove Invasive Species	Nature Conservancy	2 acres	1.5 acres	75%	2 acres
Install Large Rain Gardens	TMACOG	31000 sq. feet	0 sq. feet	Starts 2017	0.7 acres
Installed Vegetated Infiltration	TMACOG	9,000 sq. feet	0 sq. feet	Starts 2017	0.2 acres
Overwide Channel Restored	Toledo Metroparks	10,000 liner feet	0 linear feet	Starts 2017	10 acres
Prairie Wetlands Restored	Toledo Metroparks	60 acres	0 acres	Starts 2017	60 acres
Stabilize Eroding Streambanks	City of Defiance	5300 linear feet	0 linear feet	0%	12.2 acres
Restore Streambank	City of Defiance	1500 linear feet	0 linear feet	0%	3.5 acres

The Lake Erie Watersheds Nutrient Reduction Initiative commenced on 2/25/15 when Ohio EPA applied for and received GLRI Grant GL-00E01546 in the amount of \$6689,000 from US EPA's Great Lakes National Program Office. The project is a collaboration among Ohio EPA and the Crawford County SWCD. The project will increase the implementation of conservation management practices and modify land and fertilizer management practices in five northern Ohio watersheds which drain into Lake Erie.

Through 6/30/16 the Lake Erie Watersheds Nutrient Reduction Initiative has successfully completed the following:

- 8 drainage water management systems installed
- 3,766 acres of cover crops planted
- 742 acres of cover crop entrepreneur assistance completed
- 12,781 acres of cropland covered by comprehensive farm management plans
- 74 acres enrolled in Phosphorus risk reduction initiative
- 815 acres converted to accelerated nutrient management practices
- 3 landowner workshops conducted
- 1 field day completed

Nonpoint Source Stakeholder Meetings, Outreach and Presentations

- October 4th Russ Gibson and Rick Wilson participated in a Stewardship Credit Program meeting in Reynoldsburg at the Ohio Department of Agriculture.
- October 6th Russ Gibson traveled to the Cleveland offices of Tetrattech with Pam Allen from the Director's Office to participate in a stakeholder meeting outlining Ohio EPA's Beneficial Reuse of Dredged Material Initiative.
- October 11th Gibson traveled with Allen to Bowling Green to meet with NWDO office staff to discuss Ohio EPA's Beneficial Reuse of Dredge Material Initiative.
- October 21st Gibson and Wilson traveled to Zaleski State Forest to meet with Ben McCament of ODNR's Division of Mineral Resources Management to evaluate progress on project 16(h)EPA-03, the Appalachian Regional Watershed Assistance Project.
- October 31st Russ Gibson participated in the National Nonpoint Source Program Manager's conference in Boston, MA. Gibson presented "Using Data to Inform Management Decisions" as part of a panel of state program managers.
- November 9th Gibson and Wilson attended the quarterly Soil & Water Commission meeting at the Department of Agriculture in Reynoldsburg. Gibson is a non-voting member of the Commission representing Ohio EPA.
- November 9th Wilson delivered a presentation on 9-element watershed planning to the Ohio Soil & Water Conservation District Administrators at their annual training.

- November 18th Gibson participated in annual Cuyahoga Area of Concern (AOC) Symposium and delivered a presentation on Ohio's Area of Concern and Nonpoint Source programs.
- December 15th Gibson, Wilson, Cherie Blair and Ted Conlin met with Tetrattech in their Cleveland office to discuss their draft AOC management action report.
- January 8-13th Russ Gibson, Martha Spurbeck and Jo Hodanbosi participated in federal grants training that was conducted by an instructor from Management Concepts in Columbus.
- January 25th Gibson, Wilson and Blair met in Bowling Green at NWDO to discuss developing a 9-element watershed planning template. Completion and implementation of this template resulted in the development and subsequent approval of 32 HUC-12 9-element watershed plans during 2017.
- February 1st Met with Vickie Pease of the Office of Finance to discuss subrecipient grant agreement processing considering the updated federal grant register.
- February 5th Gibson attended the Black River Quarterly Advisory Committee meeting in Lorain.
- February 7th Blair and Gibson met in Sandusky with Jane Goodman of the Cuyahoga River Restoration group to discuss details of their upcoming subgrant award under the AOC Capacity grant.
- February 13th Meeting with Director Butler and others to discuss FY17 Section 319 subaward recommendations and scoring process.
- February 16th Gibson attended the GLNPO and Ohio EPA joint AOC meeting in Bowling Green (NWDO) with Tiffani Kavalec, Blair, Conlin and others in the leadership chain at NWDO and NEDO.
- February 28th Gibson and Wilson attended the Quarterly Soil & Water Commission meeting in downtown Columbus that was conducted as part of the Ohio Federation of Soil & Water Conservation Districts annual conference.
- March 3rd Gibson met with Dr. Joe Bonnell of Ohio State University Extension to discuss potential programming matters of mutual interest.
- March 7th Spurbeck and Gibson met with Jim Moyer of the Mill Creek Watershed Council to discuss concerns with the recent departure of their Executive Director and for an update on the status of 319-funded projects in the Mill Creek.
- March 8th Gibson and Wilson conducted post-construction site visits at the Middle Cuyahoga River dam removal sites in Munroe Falls, Kent and the city of Cuyahoga Falls.
- March 15th Gibson attended a Gorge Dam stakeholders meeting that included representatives from Summit County Metroparks, the mayor from the city of Cuyahoga Falls, Akron and others.
- March 28-31st Gibson, Blair and Kavalec attended the annual Great Lakes Area of Concern Conference in Grand Rapids, Michigan.
- April 4th Gibson attended a meeting in Twinsburg with Conlin and Bill Zawiski to discuss a plan moving forward to produce a Cuyahoga River video in advance of 2019 when the river will "celebrate" it's 50th anniversary of the last fire on the Cuyahoga.

- April 11th Gibson and Wilson conducted a site visit with Mike Hall at Crawford County SWCD to evaluate progress with the Phase 2 of the Great Lakes Restoration Initiative funded Nutrient Reduction project.
- April 17th Gibson and Wilson conducted a site visit with Jason Roehrig of Defiance County SWCD to evaluate progress being made in the FY12 GLRI funded Powell Creek project and their most recent Section 319 grant, project 15(h)EPA-19.
- April 20th Gibson and Wilson attended the Soil & Water Commission meeting conducted at the Department of Agriculture in Reynoldsburg.
- April 25-27th Gibson attended the annual Region 5 Nonpoint Source Program Manager's meeting in Chicago.
- May 3rd Gibson made a presentation on Ohio's Area of Concern program to the Lake Erie Commission at their quarterly meeting conducted at the Ottawa National Wildlife Area.
- May 23rd Gibson and Wilson conducted site visits to 319-funded projects completed in northeast Ohio including the city of Stow, villages of Marshallville, Reminderville and Madison.
- May 25th Travelled to Twinsburg with Mike Settles and Darla Peelle of PIC to participate in a preliminary meeting with the contractor selected to conduct a visioning meeting as a prelude to scripting a Cuyahoga River AOC video.
- June 1st Gibson met with Tetratex and ODNR Coastal folks to discuss Sandusky Bay modeling that is being conducted by TT under contract to US EPA.
- June 8th Gibson travelled to NWDO to conduct an information meeting/presentation to potential participants in the Maumee AOC Habitat Planning Initiative that is funded by a FY16 GLRI grant from US EPA Great Lakes National Program Office.
- June 14-15th Gibson travelled to Chicago to participate in the Great Lakes Commission sponsored Priority Watershed Workshop. Ohio based projects funded under the FY14 GLRI Maumee Sediment Reduction Grant were all represented except for the Toledo Metroparks.
- June 22nd Gibson conducted a meeting with McCament of ODNR's Division of Mineral Resources Management to get an update of progress being realized under project 16(h)EPA-03.
- June 27th Gibson and Wilson conducted site visits to projects funded under the FY14 GLRI Maumee Sediment Reduction Initiative grant. Visited VanTillburg farms to observe their innovative drain water collection and reuse system. We also conducted a site visit with folks from the Wright State University who are being funded under the grant to conduct effectiveness monitoring at the VanTillburg project.
- July 5th Upon request by the Division of Drinking and Groundwater, Gibson and Wilson met with staff at Kiser Lake State Park to discuss concerns and potential variables contributing to HAB's in Kiser Lake. Amy Jo Klei and interns from the DDAGW also participated.
- July 6th Gibson and Kavalec participated in a meeting with Director Butler and Deputy Director Karl Gebhardt to present proposals for the Corporate Stewardship Credit project that Gibson and

Wilson have been working on with assistance of folks from OCCAP, ODA, and other stakeholders.

- July 17th Wilson and Gibson attended the Quarterly Soil & Water Commission meeting in Cincinnati that was conducted in conjunction with the annual SWCD Supervisor training.
- July 18th Gibson and Wilson attended the summer Black River Advisory Committee meeting and river tour that was provided by the Lorain County Port Authority.
- July 20th Attended the State Technical Committee meeting (NRCS) in London with Wilson. Paul Thomas, Ohio's Region 5 NPS representative was also in attendance. Following the meeting, we conducted several post-construction site visits in the Hilliard area including 13(h)EPA-21 Clover Groff Stream Restoration project site.
- July 21st Conducted a post-construction site visit to the Highland Parks Wetland Restoration project site with Paul Thomas from Region 5 of US EPA. This project was completed with funding for project 11(h)EPA-20.
- August 8th Gibson participated in a meeting with the Director of Natural Resources, Assistant Director Laura Factor and the Dean of Ohio State University's College of Food, Agriculture and Environmental Science.
- August 9th Post construction site visits to wetland restoration project sites in the cities of New Albany, Gahanna and Pickerington. Projects visited included 09(h)EPA-17, 09(h)EPA-19 and 13(h)EPA-09.
- August 16th Gibson and Wilson participated in a grants update and site visit to Wood County SWCD to discuss relatively performance concerns with expenditure rate and low numbers of cost-share BMP sign ups under provisions of 15(h)EPA-28.
- August 16th Attended a luncheon meeting with the GLNPO Task Force Lead for the Maumee Area of Concern, Ducks Unlimited, several representatives from the US Army Corps of Engineers and several members of the Maumee AOC Advisory Committee.
- August 16th Gibson and Wilson conducted a post-construction site visit at two different project sites within the Toledo Botanical Garden funded under provisions of project 11(h)EPA-21 and 12GLRI-LUCA-24S.