



Isolated Wetland Permits and 401 Water Quality Certifications in Ohio



State Fiscal Year 2014

Division of Surface Water
401/IWP/Mitigation Compliance Section
December, 2014

Introduction

This report describes isolated wetland permitting and 401 water quality certification activities and resulting mitigation for projects acted upon by Ohio EPA during the period beginning on July 1, 2013 and ending June 30, 2014 (end of the State Fiscal Year). This report is intended to satisfy the reporting requirements specified in Ohio Revised Code (ORC) 6111.025(C), which applies to the isolated wetlands only. In order to provide a more complete picture of the impacts generated by permitting activities in the state, information regarding individual 401 water quality certifications which address impacts to non-isolated waters, has been included.

Program Background

Ohio EPA's isolated wetland permitting program was created in response to a U.S. Supreme Court Decision in the case of Solid Waste Agency of Northern Cook County (SWANCC) v. United States Army Corps of Engineers (Corps) 531 U.S. 159 (January 9, 2001). In its decision, the U.S. Supreme Court ruled that the Corps did not have authority to regulate isolated wetlands under Section 404 of the Clean Water Act (CWA). Prior to that ruling, the Corps regulated activities in all streams and wetlands through the issuance of 404 permits.

Section 401 of the CWA requires applicants to obtain a water quality certification from the State having jurisdiction over the water body in order to obtain a 404 permit. As a result of the SWANCC decision, activities in isolated wetlands could not be permitted in the state of Ohio because there would be no 404 permit to trigger a 401 water quality certification (WQC), and because there was no independent State permitting program to take its place. Emergency rules adopted in April 2001 established a State permitting mechanism; however, these rules were effective for only 90 days.

On July 17, 2001, House Bill 231 was signed into law by Governor Bob Taft. The bill establishes a permanent permitting process for isolated wetlands. The provisions of this bill were incorporated in ORC 6111, more specifically, Sections 6111.02 through 6111.029.

The Corps retained all of its original authority to issue 404 permits for wetlands that are not considered isolated (jurisdictional wetlands), as well as other waters of the U.S.

When the Corps requires an individual 404 permit to be issued, an individual 401 water quality certification is also required. The Corps can also utilize Nationwide Permits (NWP) to authorize impacts to waters of the U.S. The NWP issued by the Corps address 52 types of activities that range from boat ramp construction to surface coal mining activities. These NWP expire on March 19, 2017. Ohio EPA certified, with conditions, 45 of those activities on March 30 and April 19, 2012. In these certifications, the Agency added one new general condition that gives the Director authority to authorize projects under the 401 WQC for the NWP even if that project exceeded the specific limitations set in the 401 WQC. An applicant must demonstrate that even though the project exceeds the specific limitations in the 401 WQC for that activity, it will have such a minimal impact on water quality that coverage under the 401 WQC for the NWP is appropriate. This authorization is known as a Director's Authorization.

Permitting Program Description

Reviewers in the Division of Surface Water are responsible for the 401 water quality certifications required by the CWA and for the isolated wetland permits required by State law.

Program Staffing

Over the course of SFY14, the 401 program saw a reduction of two positions. Total staffing, expressed as full time equivalent (FTE) went from 13 FTEs at the start of SFY14 to 11 FTEs at the end of SFY14. See Table 1 below for a summary of staffing by location and purpose. Summer interns are not included.

Table 1: Number of Full Time Equivalent (FTE) Positions at the Start and End of State Fiscal Year 2014

Location	Purpose	Number FTEs Start of SFY14 (July 1, 2013)	Number FTEs End of (June 30, 2014)
Central Office	401 Project Reviews	2	1
Central Office	Energy 401 Project Reviews	2	1
Central Office	ODOT 401 Project Review	1	1
Central Office	Supervisor	1	1
Central Office	Manager	1	1
Central Office	Mitigation Compliance	2	2
Central Office	Wetland Ecology Group	1	1
Northeast District	401 Project Review	2	2
Northwest District	401 Project Review	1	1
Total FTEs		13	11

Program Fees (Isolated Wetlands)

Fees for the isolated wetland permitting program are contained in ORC 3745.113. These fees include an application fee of \$200 per application as well as a review fee of \$500 per acre of wetland impacted. The maximum review fee allowed is \$5,000 per application. If the application is for activities that have previously taken place without first obtaining an isolated wetland permit, the review fee is doubled (up to \$10,000). These fees became a statutory requirement in 2001, and have not been adjusted since that time.

Program Fees (Jurisdictional Wetlands, Streams, and Lakes)

A complete description of the 401 WQC fees is contained in Ohio Revised Code Section (ORC) 3745.114. Three key provisions of the fees are:

- 1) a person who applies for a Section 401 WQC must pay an application fee of \$200 at the time of application;
- 2) in addition to the application fee, that person must pay the review fees in the table below, and
- 3) one-half of the applicable review fees are due at the time of application. The remainder of the fee shall be paid when the Director takes an action on the application.

Table 2: Fees

Resource Impacted	Review Fee
Wetland	\$500 per acre
Ephemeral Stream	\$5 per linear foot or \$200, whichever is greater
Intermittent Stream	\$10 per linear foot or \$200, whichever is greater
Perennial Stream	\$15 per linear foot or \$200, whichever is greater
Lake	\$3 per cubic yard of dredged or fill material

The total fee paid shall not exceed \$25,000 per application. If the applicant is a county, township, or municipal corporation in the state, the total fee paid shall not exceed \$5,000 per application. State government and the United States Army Corps of Engineers are not subject to the fees.

Program Budget

In SFY14, total expenditures for 401 water quality certifications, isolated wetland permits and the wetland ecology group were \$1,600,522. Table 3 summarizes the sources of funding for the total expenditures. The majority of funding came from tipping fees from solid waste facilities that are directed to Ohio EPA. Fees from 401 certifications and isolated wetland permit fees funded 20 percent of the total expenditures.

Table 3: Sources of Funding

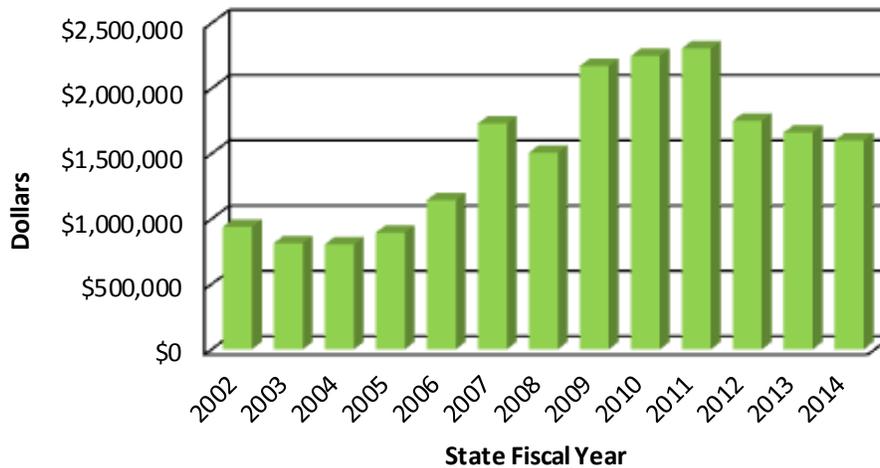
Source of Funding	Amount	Percent of Total
401 Certification Fees	\$285,024	17%
ODOT	\$119,585	8%
Isolated Wetland Permit Fees	\$47,326	3%
Penalties	\$4,695	1%
Ohio EPA Tipping Fees	\$816,417	50%
U.S. EPA Wetland Grants	\$138,024	9%
Other	\$189,178	12%
Total Expenditures	\$1,600,522	100%

The Total Expenditures funding level represents a 4 percent decrease over that observed in SFY13 (\$1,661,861).

Please note that the costs in the above table include all of the costs used to support the isolated wetland permit, 401 WQC and wetland ecology group. In addition to direct program staff and equipment costs, other program costs in this analysis include support from legal, enforcement, administrative and data management staff.

A summary of program costs since SFY02 is presented in the following graph:

Graph 1 - Program Cost Trends



Applicants and Stakeholders

Applicants seeking 401 certifications and/or isolated wetland permits from Ohio EPA include, but are not limited to: residential, commercial and industrial developers; mining companies; county, state and federal agencies; utility companies; marina owners; and individual citizens. Stakeholders include the above applicants, as well as local, statewide and national citizen groups and environmental organizations.

Summary of Outputs – State Fiscal Year 2014

Isolated Wetland Permits

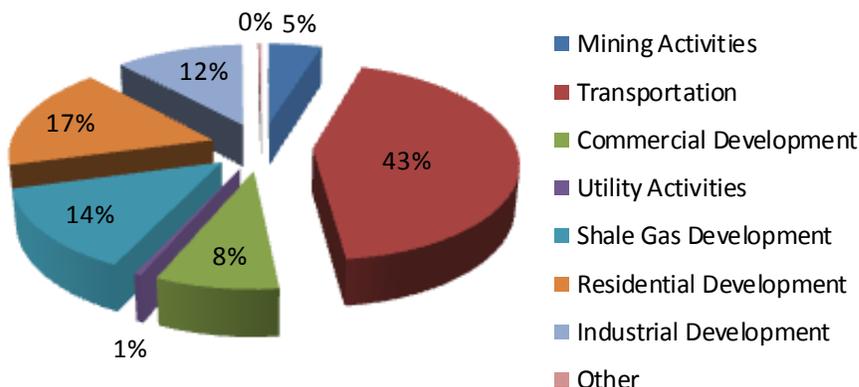
Two isolated wetland permit applications were withdrawn and 45 permits issued in SFY14, bringing the total number of applications processed to 47.

Table 4: Isolated Wetland Permits

	Number of permits issued	Acres of isolated wetlands filled	Acres of mitigation provided
General Permits	34	4.39	10.82
Individual Permits	11	17.07	34.23
Total	45	21.46	45.05

Nearly half of the isolated wetland impacts that occurred in the state of Ohio occurred as a result of transportation type activities. This includes roadway construction and improvement projects. Commercial development produced approximately a quarter of the isolated wetland impacts in the state (Graph 2).

Graph 2: Isolated Wetland Impacts by Industry Type



401 Water Quality Certifications

401 water quality certifications can be issued to address impacts to streams and lakes as well as those jurisdictional wetlands that fall under the authority of the CWA. The total number of 401 water quality certification applications processed during SFY14 was 54, and is broken down into the following categories:

Table 5: 401 WQC Actions

401 Applications Processed	54
401 Certifications Granted	42
Applications Withdrawn	11
Applications Denied	1
Applications Waived	0

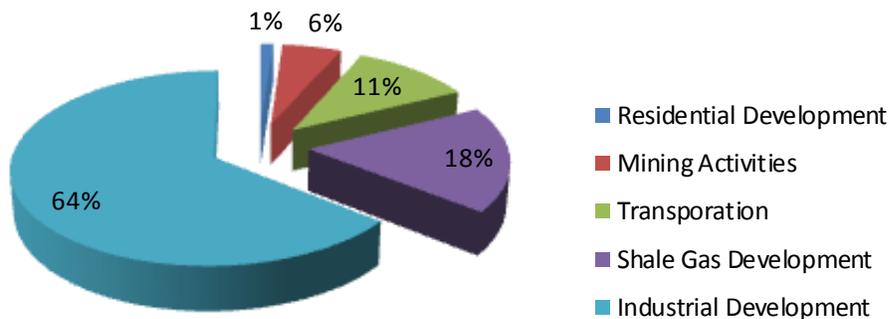
Total impacts for jurisdictional wetlands, streams and lake impacts for the 42 issued 401 water quality certifications are broken down below in Table 6.

Table 6: Individual 401 Water Quality Certifications

401s issued	Acres of Jurisdictional Wetlands		Linear Feet of Streams		Lake Impacts (cubic yards)
	filled	mitigation	filled	mitigation	
42	63.62	113.34	56,950	96,258	2,683,403

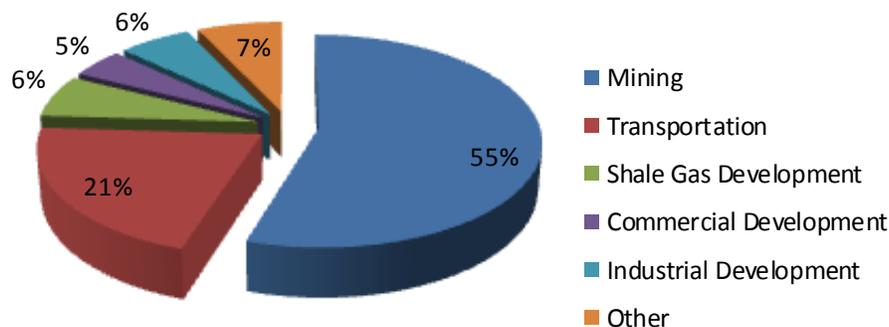
As shown in Graph 3, the majority of jurisdictional wetland impacts occurred as a result of industrial development, followed by the natural gas liquids pipelines or facilities.

Graph 3: Jurisdictional Wetland Impacts by Industry Type



The mining industry (coal mining and aggregate mining) claimed just over half of the all of the authorized stream impacts in the entire state in SFY14 (Graph 4).

Graph 4: Stream Impacts by Industry Type



Director’s Authorizations

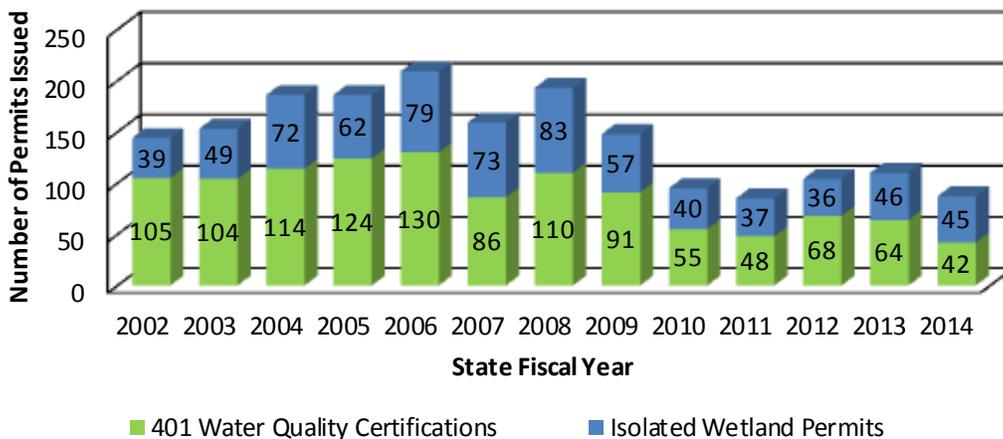
As described above in Program Background Section on Page 1, the Agency can issue a “Director’s Authorization” to applicants who can demonstrate that even though the project exceeds the specific limitations in the 401 WQC for that activity, it will have such a minimal impact on water quality that coverage under the 401 WQC for the NWP is appropriate. These are reviewed on a case-by-case basis. Ohio EPA issued 30 Director’s Authorizations to applicants in SFY 2014. This is a 100% increase from the Director’s Authorizations issued in SFY 2013 (15).

Permitting Trends

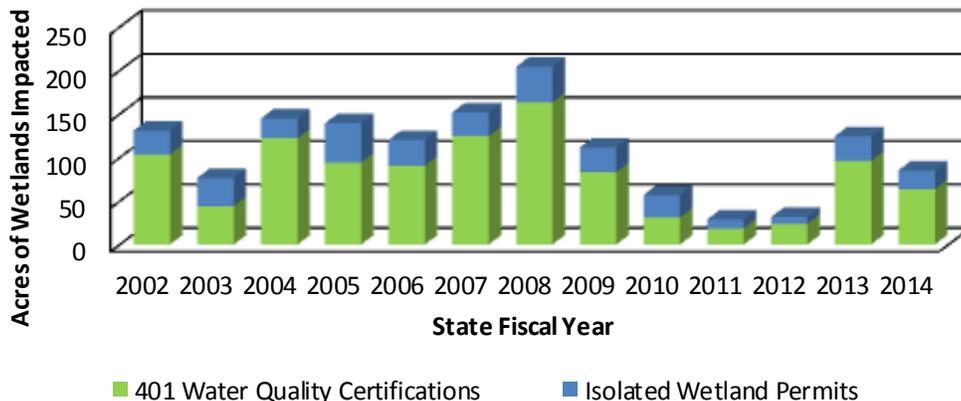
The information presented in this section shows the trends in permit activity since the isolated wetland permit program was created. The number of 401 water quality certifications and isolated wetland permits issued during each fiscal year is shown below in Graph 5. There was a slight decrease in the number of isolated wetland permits issued in SFY14 (45) compared to SFY13 (46). Meanwhile, the data shows a significant decrease in the number of 401 water quality certifications issued in SFY14 (42 compared to 64 in SFY13).

Graph 6 shows the total number of acres of wetland impacts authorized by the two programs (401 water quality certification and isolated wetland permitting) by State Fiscal Year. Jurisdictional wetland impacts authorized under a 401 water quality certification and isolated wetland impacts authorized under an isolated wetland permit totaled 85.08 acres in SFY14. This is a small decrease compared to last fiscal year.

**Graph 5 - 401 WQC and Isolated Wetland Permits
- Number of Granted Permits -**

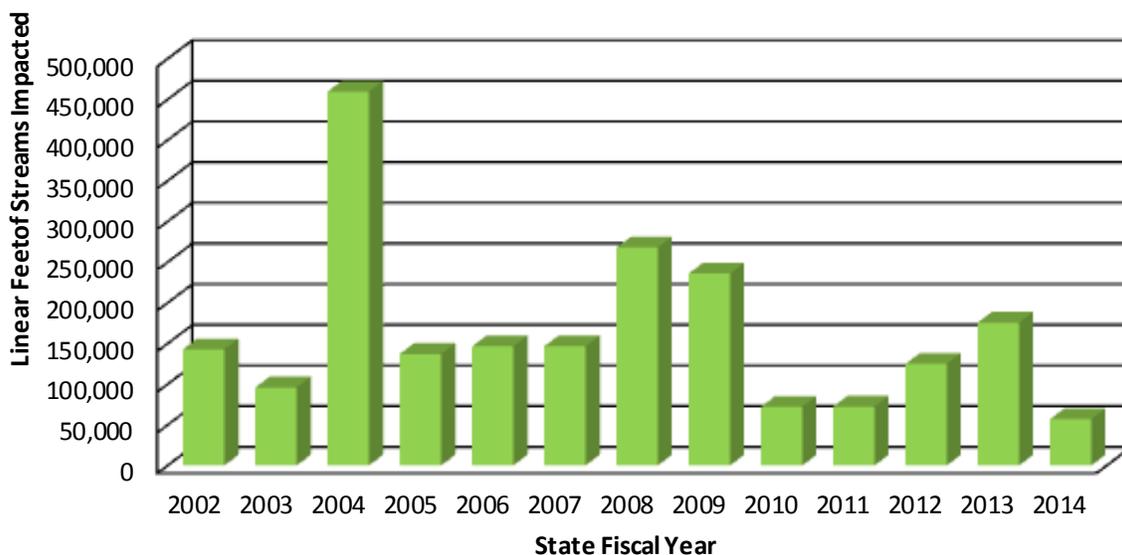


**Graph 6 - 401 WQC and Isolated Wetland Permits
- Wetland Acres Impacted-**

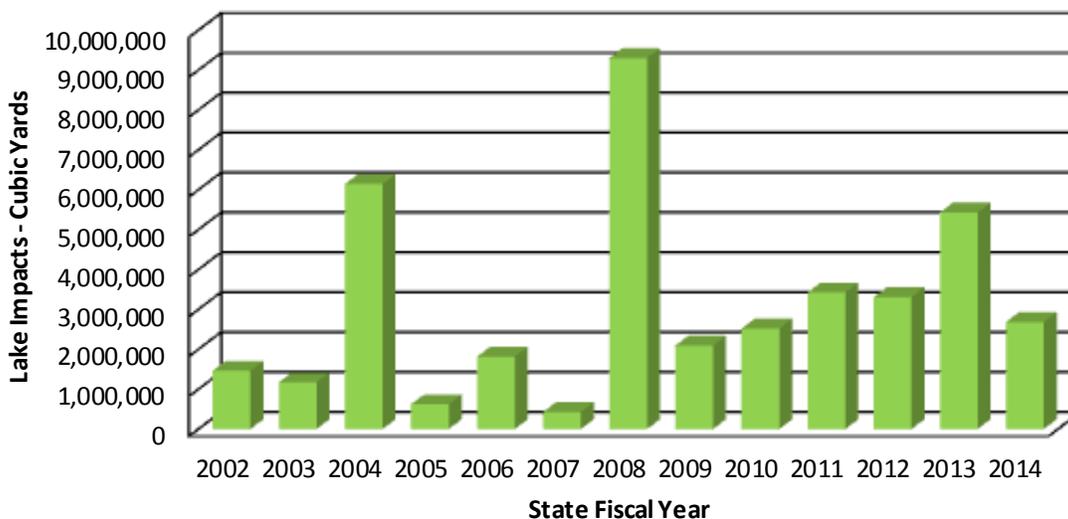


Graph 7 shows the linear feet of Ohio stream with some type of authorized impacts and Graph 8 shows the cubic yards of material placed in Ohio lakes, mainly Lake Erie. The amount of authorized stream impacts decreased by 67 percent when compared to the previous year while the amount of dredge and fill material impacting Ohio lakes decreased by 51 percent.

**Graph 7 - 401 WQC
Stream Impacts - Linear Feet**



**Graph 8 - 401 WQC
Lake Impacts - Cubic Yards**



Customer Feedback Survey

During SFY10, the Division of Surface Water undertook a Kaizen review to improve the timeliness and efficiency of the 401 water quality certification process. One of the outcomes of the Kaizen review was the

implementation of an online customer service survey. The survey can be found at the following website: <http://www.surveymonkey.com/wqc-iwpfeedbackform>

This link is included in each certification issued by Ohio EPA. The survey was activated on June 1, 2010, near the end of the state fiscal year. Although the survey has been active for this entire report period, participation has been low, with only three responses received through the survey web site since implementation. A meaningful statistical analysis of the responses is not possible with the limited number of participants; however the results were mixed with both praise and criticism as it relates to the permitting process. Some of the suggestions received include providing better guidance for completing the applications and improving permit response times. The Division of Surface Water has been and continues to work on improvements in these areas as the outcomes of the Kaizen process are implemented.

Questions regarding this report should be directed to Rachel Taulbee, Supervisor of the 401 Permitting Unit, at (614) 644-2494 or via email at rachel.taulbee@epa.ohio.gov.

Appendices

Table A lists each isolated wetland project acted upon with columns indicating the corresponding applicant name, date action was taken, acres filled, acres mitigated, permit type (level one, two or three review), and the number of days to process each application. This table also provides the eight-digit hydrologic unit code (HUC) for the impacts and the mitigation associated with that impact. The total number of acres impacted in each of the HUCs by the isolated wetland permitting program is also provided.

Table B lists each jurisdictional project with wetland impacts and includes columns indicating the corresponding applicant name, date action was taken, acres filled, acres mitigated and the number of days required to process each application. This table also provides the eight-digit HUC for the impacts and the mitigation associated with that impact. The total number of acres impacted in each of the HUCs by the 401 water quality certification program is also provided. Please note that if a project is listed in this table more than once, it is due to the fact that mitigation for the project occurred in more than one watershed.

Table C lists each project with stream impacts and includes columns indicating the corresponding applicant name, date action was taken, linear feet of stream impacts certified, linear feet of stream mitigation and the number of days required to process each application.

Table D lists each project with lake impacts and includes columns indicating the corresponding applicant name, date action was taken, cubic yards of dredge materials allowed under the certification and the number of days required to process each application.

Table E lists each of the eight-digit HUC codes and its corresponding basin name in the state of Ohio. This table also summarizes, by HUC, the impacts and mitigation acreage on both jurisdictional and isolated wetlands.

In reviewing the information contained in the tables, please note the following:

- 1) Adding the projects listed in Tables A, B, C and D will over-estimate the number of actions taken by Ohio EPA since a single application may have impacts in more than one type of water body. The tables were generated to show the various types of impacts certified by Ohio EPA via individual 401 water quality certifications.
- 2) Table D does not contain a summary of mitigation resulting from the certifications issued for lake impacts. Current tracking of lake mitigation is limited.

Table A —Isolated Wetland Impacts Issued Between July 1, 2013 and June 30, 2014

SWIMS #	Applicant	Permit Type	Issue Date	Issue Time (Days)	Wetlands Impacted		Total Impact	Wetland Mitigation	
					Acres	HUC		Acres	HUC
134308	ODOT	Level Two	5/21/2014	58	7.87	04100008	7.87	15.8	04100011
134208	Jam Best One Tire and Service Center	Level One	8/30/2013	15	0.24	04100009	0.24	0.48	04100010
134169	Seefried Industries Properties, Inc.	Level One	7/8/2013	12	0.35	04100010	0.4	0.9	04100010
134179	Kury Housing, LLC	Level One	11/5/2013	0	0.05	04100010		0.1	04100010
134192	City of Westlake	Level One	8/15/2013	0	0.19	04110001	0.77	0.5	04110004
134230	Greater Cleveland Regional Transit Authority	Level One	8/27/2013	0	0.27	04110001		0.5	04110004
144331	Pulte Homes of Ohio, LLC	Level One	2/14/2014	10	0.1	04110001		0.2	04100011
144361	JKR Development, LLC	Level One	4/15/2014	12	0.11	04110001	0.64	0.22	04110001
144391	Milor Knowlton, LLC	Level One	6/18/2014	1	0.1	04110001		0.2	04100011
134204	ODOT	Level One	8/5/2013	0	0.15	04110002	0.64	0.36	04110002
144359	Northeast Ohio Regional Sewer District	Level One	3/12/2014	6	0.07	04110002		0.14	04110002
144376	ODOT	Level One	5/16/2014	0	0.42	04110002		1.26	04110002
134256	Mapleview Village, LLC	Level One	11/7/2013	0	0.21	04110004	0.21	0.6	04110004
134125	MarkWest EMG, LLC	Level Two	7/30/2013	47	0.68	05030101	0.75	1.36	PILOT IN-LIEU FEE
134210	Jefferson County Airpark	Level One	9/5/2013	1	0.07	05030101		0.14	PILOT IN-LIEU FEE
134121	Eagle Creek of Hubbard Associates, Ltd.	Level One	8/2/2013	3	0.03	05030102	0.09	0.06	PILOT IN-LIEU FEE
134233	ODOT	Level One	9/9/2013	5	0.06	05030102		0.09	05030103
144398	Trumbull County Sanitary Engineer	Level One	6/9/2014	21	0.03	05030103	0.03	0.1	05030103
134294	MarkWest Utica EMG, LLC	Level One	12/23/2013	11	0.03	05030106	1.05	0.06	PILOT IN-LIEU FEE
134307	MarkWest Utica EMG, LLC	Level Two	3/12/2014	64	1.02	05030106		2.04	PILOT IN-LIEU FEE
134274	Shelly Materials	Level Two	3/7/2014	60	1.02	05030201	1.02	2	05060001
144323	AEP Generation Resources	Level One	1/24/2014	10	0.2	05030202	0.44	0.41	05030202
144355	Baltes Commercial Realty	Level One	2/28/2014	0	0.24	05030202		0.5	05060001
134240	Ivan Weaver Construction	Level One	10/15/2013	22	0.04	05040001	0.26	0.1	05040001
144378	Metro Parks, Serving Summit County	Level One	5/8/2014	22	0.06	05040001		0.2	05040001
144427	TimkenSteel Corp.	Level One	6/23/2014	0	0.16	05040001		0.4	05040001

134178	Dominion Homes, Inc.	Level Two	9/24/2013	70	2.29	05040004	2.32	4.6	05060001
144334	Oxford Mining Company, LLC	Level One	4/6/2014	30	0.03	05040004		0.4	05040004
134164	Wedgewood Limited Partnership I	Level Two	9/16/2013	89	0.91	05060001	3.74	2.1	05060001
134284	AEP - Franklin Real Estate	Level Two	4/15/2014	89	0.66	05060001		1.32	05060001
134293	Heath Newark Licking County Port Authority	Level One	2/5/2014	7	0.13	05060001	0.10	0.4	05060001
134312	ODOT	Level One	1/2/2014	0	0.05	05060001		0.1	05060001
144344	Honda of America, Mfg. Inc/ East Liberty Plant	Level Two	6/5/2014	87	0.66	05060001	0.14	1.32	05060001
144381	Byers Realty, LLC	Level One	4/14/2014	0	0.37	05060001		0.8	05060001
144393	Central College Hospitality, Ltd.	Level Two	6/27/2014	66	0.73	05060001	0.12	1.5	05060001
144402	City of Columbus	Level One	6/2/2014	10	0.23	05060001		0.6	05060001
144338	DT Retail Properties, LLC	Level One	2/18/2014	15	0.09	05080001	1.23	0.2	05060001
144368	Access Engineering Solutions	Level One	3/27/2014	0	0.01	05080001		0.1	05060001
134243	Oberer Land Developers, LTD.	Level One	10/7/2013	14	0.12	05080002	0.04	0.24	05080002
144418	Liberty South Development	Level One	6/2/2014	0	0.02	05080002		0.04	05090201
134272	ODOT	Level One	3/6/2014	0	0.04	05090103	0.12	0.1	05090201
144353	ODOT	Level One	3/25/2014	0	0.01	05090202		0.02	05080002
144373	Speedway, LLC	Level One	4/3/2014	14	0.11	05090202	1.23	0.3	05060001
134097	Sunoco Pipeline, L.P.	Level Two	9/4/2013	70	0.72	MULTIPLE		1.44	04100011
134188	Sunoco	Level Two	10/15/2013	98	0.51	MULTIPLE	0.75	MULTIPLE	
Total Acres Impacted						21.46			
Total Acres Mitigated						45.05			
Level One Average Issuance Time						7 days			
Level Two Average Issuance Time						73 days			

Table B —Jurisdictional Wetland Impacts Issued Between July 1, 2013 and June 30, 2014

SWIMS #	Applicant	Issue Date	Issue Time	Wetlands Impacted			Wetland Mitigation	
				Acres	HUC	Total Impact	Acres	HUC
134309	ODOT	6/16/2014	83	4.47	04100008	4.47	6.71	04100011
134258	ODOT	3/7/2014	70	0.22	04110001		0.65	04110002
134103	Cuyahoga County Dept. of Public Works	7/23/2013	74	1.78	04110001	2.75	2.7	04110001
113843	Knight Development Corporation	1/23/2014	154	0.75	04110001		2.25	04110001
134104	Georgetown Marine Inc.	12/9/2013	173	1.05	05030106		1.58	05030106
134176	MarkWest Liberty Midstream & Resources, LLC	11/19/2013	41	0.68	05030106	1.73	0.96	MULTIPLE
123881	American Electric Power	12/27/2013	137	3.47	05030202	3.47	9.1	05030202
134067	Oxford Mining Company, LLC.	11/22/2013	95	2.36	05040001		3.54	05040001
144349	The East Ohio Gas Company	6/27/2014	87	1.99	05040001	13.07	3.59	05040001
134089	Utica East Ohio Midstream, LLC	8/14/2013	127	8.72	05040001		24.62	05040001
134082	Oxford Mining, LLC.	8/1/2013	171	0.07	05040004	0.07	0.1	05040004
134151	ODOT	6/17/2014	166	0.51	05060001	0.51	0.97	05060001
134313	ODOT	6/27/2014	79	0.07	05080001	0.07	0.15	05080002
124011	DP&L	7/1/2013	173	0.38	05090201	0.38	0.76	05090201
124000	Sunoco Logistics Partners, L.P.	12/20/2013	178	16.79	MULTIPLE		25.19	MULTIPLE
124031	Sunoco Logistics	12/20/2013	177	20.31	MULTIPLE	37.1	30.47	MULTIPLE
Total Acres Impacted				63.62				
Total Acres Mitigated				113.34				
Average Issuance Time				124 days				

Table C —Jurisdictional Stream Impacts Issued Between July 1, 2013 and June 30, 2014

SWIMS #	Applicant	Issue Date	Issue Time	Streams Impacted			Stream Mitigation	
				Linear Feet	HUC	Total	Linear Feet	HUC
134183	Auglaize Soil and Water Conservation District	5/12/2014	161	33932	04100007	33932	33932	04100007
134309	ODOT	6/16/2014	83	1497	04100008	1497	2248	04100011
124046	Spectrum Environmental Group	10/15/2013	151	700	04100009	700	880	04100009
134083	Cardinal Aggregate, Inc.	10/1/2013	175	2060	04100010	2060	2750	04100010
134087	City of Upper Sandusky	10/7/2013	126	150	04100011	150	150	04100011
134258	ODOT	3/7/2014	70	596	04110001	773	888	04110002
113843	Knight Development Corporation	1/23/2014	154	177	04110001		862	04110001
124000	Sunoco Logistics Partners, L.P.	12/20/2013	178	534.7	05030103	534.7	534.7	05030103
134093	American Energy Corporation	11/20/2013	161	3502	05030106	9260	1234	05030106
134104	Georgetown Marine Inc.	12/9/2013	173	3753	05030106		3753	05030106
134110	Larry Lang Excavating	4/25/2014	162	1535	05030201	1535	7120	05040004
123881	American Electric Power	12/27/2013	137	2540	05030202	2540	3860	05030202
134180	ODOT	10/25/2013	94	913	05030204	913	318	05030204
134067	Oxford Mining Company, LLC.	11/22/2013	95	15705	05040001	32888	15705	05040001
134089	Utica East Ohio Midstream, LLC	8/14/2013	127	1478	05040001		2232	05040001
134082	Oxford Mining, LLC.	8/1/2013	171	3462	05040004	3462	3462	05040004
134162	Oxford Mining Company, LLC	5/22/2014	248	1101	05040005	1101	1114	05040005
134151	ODOT	6/17/2014	166	532	05060001	3815	600	05060001
134190	ODOT	1/17/2014	120	3283	05060001		1316	05060001
134313	ODOT	6/27/2014	79	220	05080001	220	440	05080002
134257	ODOT	4/25/2014	72	4150	05080002	4150	6225	05080001
123879	Vinton County	8/1/2013	112	700	05090101	700	750	05090101
124011	DP&L	7/1/2013	173	170	05090201	170	3000	05090201
134255	City of Cincinnati, Parks Department	2/26/2014	114	3100	05090203	3100	800	05090203
124031	Sunoco Logistics	12/20/2013	177	1081.5	MULTIPLE		1081.5	MULTIPLE
134176	MarkWest Liberty Midstream & Resources, LLC	11/19/2013	41	2005	MULTIPLE	3086.5	3008	MULTIPLE
Total Linear Feet Impacted						56950		
Total Linear Feet Mitigated						96258.2		
Average Issuance Time						135 days		

Table D —Lake Impacts Issued Between July 1, 2013 and June 30, 2014

SWIMS #	Applicant	Issue Date	Issue Time	Lakes Dredge/ Fill Amount (Cubic Yards)	Lakes HUC
134288	U.S. Army Corps of Engineers, Buffalo District	5/23/2014	165	1,100,000	04100009
134117	U.S. Army Corps of Engineers, Buffalo District	7/18/2013	108	225,000	04100011
134130	U.S. Army Corps of Engineers, Buffalo District	7/18/2013	84	250,000	04100012
134299	U.S. Army Corps of Engineers, Buffalo District	5/27/2014	162	300,000	04100012
134292	U.S. Army Corps of Engineers, Buffalo District	4/14/2014	97	225,000	04110002
134275	U.S. Army Corps of Engineers, Buffalo District	4/18/2014	112	350,000	04110004
134137	Harry L. Jr. & Yvonne L. Allen	7/30/2013	71	1,450	04120200
134073	Trustees of the Coury Living Trust	11/4/2014	138	1,920	04120200
134084	Home Owner Arthur Shamakian	10/1/2013	124	933	04120200
134075	Keep Lake Milton Clean and Beautiful	3/7/2014	70	4,100	05030103
134287	U.S. Army Corps of Engineers, Buffalo District	6/19/2014	181	225,000	041220200
Cubic Yards/Fill			2,683,403		
Average Issuance Time			119 days		

Table E — Wetland Impact and Mitigation Summary by HUC Issued Between July 1, 2013 and June 30, 2014

8 Digit HUC	Description	Isolated Wetlands		Jurisdictional		Total Acres	
		Impact	Mitigation	Impact	Mitigation	Impact	Mitigation
4100001	Lake Erie tributaries (below Detroit R. to above Maumee R.)	0.00	0.00	0.00	0.00	0.00	0.00
4100002	Raisin River	0.00	0.00	0.00	0.00	0.00	0.00
4100003	St. Joseph River	0.00	0.00	0.00	0.00	0.00	0.00
4100004	St. Marys River	0.00	0.00	0.00	0.00	0.00	0.00
4100005	Maumee River	0.00	0.00	0.00	0.00	0.00	0.00
4100006	Tiffin River	0.00	0.00	0.00	0.00	0.00	0.00
4100007	Auglaize River	0.00	0.00	0.00	0.00	0.00	0.00
4100008	Blanchard River	7.87	0.00	4.47	0.00	12.34	0.00
4100009	Maumee River	0.24	0.48	0.00	0.00	0.24	0.48
4100010	Lake Erie Tributaries and Portage River	0.40	1.00	0.00	0.00	0.40	1.00
4100011	Sandusky River and Sandusky Bay Tributaries	0.00	17.64	0.00	6.71	0.00	24.35
4100012	Huron River and Vermilion River	0.00	0.00	0.00	0.00	0.00	0.00
4110001	Black River and Rocky River	0.77	0.22	2.75	4.95	3.52	5.17
4110002	Cuyahoga River	0.64	1.76	0.00	0.65	0.64	2.41
4110003	Chagrin and Ashtabula Rivers and Lake Erie Tributaries	0.00	0.00	0.00	0.00	0.00	0.00
4110004	Grand River	0.21	1.60	0.00	0.00	0.21	1.60
4120101	Conneaut Creek and Lake Erie tributaries	0.00	0.00	0.00	0.00	0.00	0.00
4120200	Lake Erie Islands	0.00	0.00	0.00	0.00	0.00	0.00
5030101	Little Beaver, Yellow, and Cross Creeks	0.75	0.00	0.00	0.00	0.75	0.00
5030102	Shenango River	0.09	0.00	0.00	0.00	0.09	0.00
5030103	Mahoning River	0.03	0.19	0.00	0.00	0.03	0.19
5030106	Ohio River tributaries (Short, Wheeling, and McMahan Creeks)	1.05	0.00	1.73	1.58	2.78	1.58
5030201	Little Muskingum River	1.02	0.00	0.00	0.00	1.02	0.00
5030202	Shade River and Leading Creek	0.44	0.41	3.47	9.10	3.91	9.51
5030204	Hocking River	0.00	0.00	0.00	0.00	0.00	0.00
5040001	Tuscarawas River	0.26	0.70	13.07	31.75	13.33	32.45
5040002	Mohican River	0.00	0.00	0.00	0.00	0.00	0.00
5040003	Kokosing River, Walhonding River, and Killbuck Creek	0.00	0.00	0.00	0.00	0.00	0.00
5040004	Muskingum River	2.32	0.40	0.07	0.10	2.39	0.50
5040005	Wills Creek	0.00	0.00	0.00	0.00	0.00	0.00
5040006	Licking River	0.00	0.00	0.00	0.00	0.00	0.00
5060001	Scioto River (headwaters to below Big Darby Creek)	3.74	15.84	0.51	0.97	4.25	16.81
5060002	Scioto R. (below Big Darby Cr. to Ohio R., except Paint Cr.)	0.00	0.00	0.00	0.00	0.00	0.00
5060003	Paint Creek	0.00	0.00	0.00	0.00	0.00	0.00
5080001	Great Miami River (headwaters to below Mad River)	0.10	0.00	0.07	0.00	0.17	0.00

5080002	Great Miami R. (below Mad R. to Ohio R., except Whitewater R.)	0.14	0.26	0.00	0.15	0.14	0.41
5080003	Whitewater River	0.00	0.00	0.00	0.00	0.00	0.00
5090101	Raccoon Cr., Symmes Cr. and other Ohio R. tributaries	0.00	0.00	0.00	0.00	0.00	0.00
5090103	Little Scioto River and other Ohio River tributaries	0.04	0.00	0.00	0.00	0.04	0.00
5090201	Ohio Brush Cr., Whiteoak Cr., and other Ohio R. tributaries	0.00	0.14	0.38	0.76	0.38	0.90
5090202	Little Miami River	0.12	0.00	0.00	0.00	0.12	0.00
5090203	Mill Creek and Ohio River tributaries	0.00	0.00	0.00	0.00	0.00	0.00
5120101	Wabash River	0.00	0.00	0.00	0.00	0.00	0.00
5120103	Mississinewa River	0.00	0.00	0.00	0.00	0.00	0.00
NA	Pilot In-Lieu Fee	NA	3.66	NA	0.00	NA	3.66
NA	Multiple Watersheds	1.23	NA	37.10	56.62	38.33	56.62
Totals		21.46	45.05	63.62	113.34	85.08	158.38