



**OHIO DEPARTMENT OF TRANSPORTATION
INTER-OFFICE COMMUNICATION
Office of Environmental Services**

TO: Ferzan Ahmed, District Deputy Director **DATE:** 2-12-2015
Attention: Janice, Environmental Project Coordinator
FROM: Timothy M. Hill, Administrator, Office of Environmental Services
SUBJECT: Waterway Permit Determination **(SJN):** 466686
PROJECT: FRA-70-12.68 (Project 4A) **(PID):** 77372

We have reviewed the waterway permit determination package for the above referenced project to determine the appropriate level of waterway permitting required for the project.

1. No waterway permits are required.
2. An US Army Corps of Engineers (USACE) Individual 404 Permit will be required.
3. An Ohio Environmental Protection Agency (OEPA) Individual 401 Water Quality Certification (WQC) will be required.
4. ODOT Let project activity is covered by the Regional General Permit (RGP) Sections(s)
 - A. Linear Transportation Projects
 - B. Maintenance

The waterway permit conditions shall be included in the plan package as special provisions.

5. The project will meet criteria for a USACE Regional General Permit Section A, a Pre-Construction Notification (PCN) is required to obtain USACE authorization.
6. Project activity is covered by the USACE 404 NWP [#]. All conditions stated in the Nationwide Permit Program shall be followed. The waterway permit conditions shall be included in the plan package as special provisions.
7. OEPA General/Individual Isolated Wetland Permit Level [#] Review is required. Please submit appropriate level application.
8. USCG Section 9 Bridge Permit is required. OR USCG Coordination is required.
9. USACE Section 10 Notice to Navigation is required. OR USACE Section 10 Permit is required, a PCN is required to obtain Section 10 authorization.
10. Project will require a waterway permit strategy meeting to discuss Individual permit application preparation, alternatives and mitigation. District please schedule this meeting at your earliest convenience.
11. Mitigation required:

Stream:	TBD
Wetland:	No
12. Waterway permit determination submission is incomplete. District, please provide the following items:

Comments: OES-WPU has reviewed the subject project and has determined that it likely meets the criteria for USACE Regional General Permit Section A (Linear Transportation), however a PCN is required for work in a Section 10 water, impacts to a perennial stream over 300 feet, and total impact for a single and complete project greater than 500 feet. Per the Waterway Permit Manual, the District is responsible for completing the PCN or getting a pre-qualified consultant to complete the PCN and coordinating it with OES-WPU for review and final agency submittal and approval. No work in waters shall commence until the PCN is authorized. Special Provisions will be completed following the USACE concurrence with the PCN. Note that there will be in-water work restrictions for the Scioto River (WWH) due to it being over 20 square miles at the project site.

Please contact Matt Perlik at 614-466-1937, Adrienne Earley at 614-466-2159, or Katie Dunlap, CO-WPU Reviewer at 614-466-6983 with any questions.
 TMH:MKP:AEE:kad
 c.

Temporary Construction, Access and Dewatering Activities

Permit Determination Checklist

The purpose of this form is to aid the Office of Environmental Services – Waterway Permits Unit (OES-WPU) in the permit determination process. This form shall be completed by the project designer and reflect the anticipated needs for temporary fill. If the type and amount of temporary fill is unknown, assume a worst case scenario of what could be needed. A completed copy of this form and a temporary construction access plan shall be forwarded to the DEC to be included in the Permit Determination Request Package submitted to OES-WPU.

Co-Rte-Sec: FRA-70-12.68 & FRA-70-13.10 PID: 77372 & 89464

Description: I-70/I-71 WEST INTERCHANGE BRIDGE REPLACEMENTS OVER THE SCIOTO RIVER:
Project 4A & Project 6A

During the construction of this project, the following activities in the waters of the United States are anticipated: (check all that apply)

- Temporary structure for maintaining traffic
- Cofferdams
- Temporary access fill (e.g. causeways and work pads)
- Demolition and debris removal
- Dams, sumps, and pumping

ODOT requires that temporary activity to accommodate a minimum flow equal to twice the highest mean monthly flow without creating a rise in backwater above the OHWM. **The minimum flow to be maintained throughout construction for this location is 6,260 cfs.** The means that will most likely be implemented by the Contractor to maintain this flow will be:

- Conduit(s)
- Open channel(s)\Temporary Bridge

Different 404 permit types have different limitations and requirements. Please read the limitations and provide the required measurements and answers as it applies for this project.

- The maximum length of temporary impact, as measured upstream to downstream along one bank, cannot exceed 300-ft. **Proposed impact length for this project is 410 ft. per project.**
- The duration of the impact to waters of the United States cannot exceed 2 years. **Proposed temporary impact duration is 2 years. per project.**
- The proposed temporary fill is within the flowage easement of a flood control facility*. ___YES
___NO

*Only applies to federal flood control facilities. Flowage easements associated with these facilities can occur several miles away from the facility. If uncertain that the project is in a flowage easement area, please contact OES and consult your district's real estate office for assistance.

cc. District Environmental Coordinator (DEC)

A complete copy of the RGP with the OEPA conditions may be downloaded at the following website:
http://www.dot.state.oh.us/Divisions/Planning/Environment/Ecological_Resources/Permits/WATERWAY_PERMITS/Pages/default.aspx

Figure 203.5-2

USGS StreamStats National Data-Collection Station Information

Zoom In to at least 1:5,000,000 to see gages. Click on a gage to get additional information.

Explanation

- ▲ Gaging Station, Continuous Record
- ▲ Low Flow, Partial Record
- ▲ Peak Flow, Partial Record
- ▲ Peak and Low Flow, Partial Record
- ▲ Stage Only
- ▲ Low Flow, Partial Record, Stage
- ▲ Miscellaneous Record
- ▲ Unknown
- HUC 8
- HUC 12

Scale: 1 : 288,895

Latitude: 39.69229
Longitude: -82.77816

Stream Gage Information

Station Name: Scioto River at Columbus OH
Site Number: [03227500 \(click here\)](#)
Latitude: 39.90942
Longitude: -83.00922
Site Status: Active
NWIS URL: [\(click here\)](#)
Station Type: Continuous Streamgage
Coordinate Source: NHD24K

US Geological Survey, Office of Surface Water | Sources: Esri, HERE, DeLorme, USGS, Intermap, Ince...

Project Name:
Project Limits:
Route:
PID Number:
OOOT District: 5
Client:

Page of
Sheet Date
Checked by Date
URS Project No. 14578403

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Print Date 4/22/2015

USGS Monthly Statistics for the Nation

The statistics generated from this site are based on approved daily-mean data and may not match those published by the USGS in official publications. The user is responsible for assessment and use of statistics from this site. For more details on why the statistics may not match, click here.

USGS 03227500 Scioto River at Columbus OH

Franklin County, Ohio
Hydrologic Unit Code 05060001
Latitude 39°54'34", Longitude 83°00'33" NAD27
Drainage area 1,629 square miles
Contributing drainage area 1,629 square miles
Gage datum 679.18 feet above NAVD88

Output formats

HTML table of all data
Tab-separated data
Reselect output format

00060, Discharge, cubic feet per second, Monthly mean in ft3/s (Calculation Period: 1920-10-01 -> 2014-08-31)

Table with columns for Year (1920-2014), Month (Jan-Dec), and Discharge (ft3/s). Includes a 'Mean of monthly Discharge' row at the bottom.

Summary statistics table with columns for Min, Avg, and Max for various years and metrics.

** No Incomplete data have been used for statistical calculation

Summary statistics table with columns for Min, Avg, and Max for various years and metrics.



Project Name: Solve for Bankfull Discharge
 Project Limits: _____
 Route: _____
 PID Number: _____
 ODOT District: 6
 Client: _____

Page _____ of _____
 Sheet _____ of _____
 Computed by _____ Date _____
 Checked by _____ Date _____
 URS Project No. 14578403

L:\Projects\14578403\TRANS\FRA\77372\drainage\docs\Report\2015-04-22\77372_Appndx J_USGS-03-4164-Rural.xlsx\USGS_03-4164
 Print Date 4/22/2015

ESTIMATED PEAK DISCHARGES OF UNREGULATED RURAL STREAMS IN OHIO
U.S. GEOLOGICAL SURVEY WATER-RESOURCES INVESTIGATIONS REPORT 03-4164
Aug-03
Note: Supercedes WRIR 89-4126 Dated March 1990

TRIBUTARY: _____ **COUNTY:** Franklin County
WATERSHED: Scioto River at I-70 / I-71 **TOWNSHIP:** _____
USGS QUAD MAP: _____
LOCATION: _____
DESCRIPTION: _____

CULVERT NUMBER: _____ **STRUCTURE TYPE:** _____
TRIBUTARY AREA LABEL: _____ **STRUCTURE NUMBER:** _____
STATION: _____ **QUANTITY REF. NO.** _____
SIDE: _____

REGION: A
AREA: 1,042,560 ACRES
 ELEVATION DIFFERENCE (10% & 85%) = 4.8522 feet
SLOPE: CHANNEL LENGTH (10% & 85%) = 5280 feet
 CHANNEL SLOPE % = 0.00092
 SLOPE IN FEET PER MILE = 4.85

EQUATION VARIABLES: DA= 1629.00 AREA IN SQUARE MILES
 SL= 4.85 MAIN CHANNEL SLOPE IN FEET PER MILE
 W= 0.00 STORAGE AREA IN PERCENT

RECURRENCE INTERVAL	SIMPLE EQUATION		FULL MODEL EQUATION	
	REGRESSION CONSTANT	PEAK DISCHARGE	REGRESSION CONSTANT	PEAK DISCHARGE
	RC	Q (cfs)	RC	Q (cfs)
(year)				
2	106.3	21,197	58.9	25,753
5	186.1	29,725	96.2	38,200
10	244.4	35,722	121.2	46,795
25	321	43,252	152.4	58,065
50	379.6	48,928	175.3	66,155
100	439.1	54,543	197.7	75,000

Bankfull Discharge				
Region		A	B	USGS report 2005-5153
Drainage Area:	DA =	1629.00 sq mi	1629.00 sq mi	
Bankfull Width:	WBF=	250.4 ft	445.2 ft	
Bankfull Mean Depth:	DBF=	10.8 ft	14.3 ft	
Bankfull Cross Section Area	ABF=	2677 sq ft	6370 sq ft	
Bankfull Discharge	QBF=	10372 cfs	25569 cfs	