

### United States Department of the Interior

#### U.S. GEOLOGICAL SURVEY Ohio-Kentucky-Indiana Water Science Center

OHIO 6460 Busch Boulevard, Suite 100 Columbus, Ohio 43229-1737 KENTUCKY 9818 Bluegrass Parkway Louisville, Kentucky 40299-1906 INDIANA 5957 Lakeside Boulevard Indianapolis, Indiana 46278-1996

June 12, 2018

Mr. Matthew Steele City of Columbus, Dept. of Public Utilities 910 Dublin Road Columbus, Ohio 43215

Dear Mr. Steele:

Enclosed are two signed originals of our standard joint-funding agreement 19EMNF0000201 for the investigation of water resources in the Scioto River and tributaries in the vicinity of Columbus and Pickaway County well field, as well as Hellbranch Run water discharge, suspended sediment discharge, and concentration of selected water quality parameters, during the period October 1, 2018 through September 30, 2019 in the amount of \$340,894 from your agency. U.S. Geological Survey contributions for this agreement are \$71,795 for a combined total of \$412,689. Please sign and return one fully-executed original to Damon Williams at the Indianapolis address above.

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **October 1, 2018**. If, for any reason, the agreement cannot be signed and returned by the date shown above, please contact David Straub by phone number (614) 430-7744 or email destraub@usgs.gov to make alternative arrangements.

This is a fixed cost agreement to be billed quarterly via Down Payment Request (automated Form DI-1040). Please allow 30-days from the end of the billing period for issuance of the bill. If you experience any problems with your invoice(s), please contact Damon Williams at phone number (317) 209-3333 or email at dlwilliams@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. The U.S. Geological Survey appreciates the opportunity to work with the City of Columbus and looks forward to continuing the relationship in future fiscal years.

Sincerely,

Michael Griffin Director

Enclosure 19EMNF0000201 (2) Form 9-1366 (May 2018)

### **U.S.** Department of the Interior **U.S. Geological Survey Joint Funding Agreement FOR**

TIN #: 31-6400223

Project #: NF00GWR

Customer #: 600000249 Agreement #: 19EMNF0000201

**Water Resource Investigations** 

Fixed Cost Agreement YES[X]NO[]

THIS AGREEMENT is entered into as of the October 1, 2018, by the U.S. GEOLOGICAL SURVEY. OKI Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the City of Columbus, OH party of the second part.

- 1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation the investigation of water resources in the Scioto River and tributaries in the vicinity of Columbus and Pickaway County well field, as well as Hellbranch Run water discharge, suspended sediment discharge, and concentration of selected water quality parameters (per attachment), herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50, and 43 USC 50b.
- 2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) include In-Kind-Services in the amount of \$0.00
  - \$71.795 by the party of the first part during the period October 1, 2018 to September 30, 2019
  - by the party of the second part during the period (b) \$340,894 October 1, 2018 to September 30, 2019
  - Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: \$0

Description of the USGS regional/national program: N/A

- Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.
- The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.
- 3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.
- 4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.
- 5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.
- 6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.
- 7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.
- 8. The maps, records or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program, and if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at cost, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records or reports published by either party shall contain a statement of the cooperative relations between the parties. The Parties acknowledge that scientific information and data developed as a result of the Scope of Work (SOW) are subject to applicable USGS review, approval, and release requirements, which are available on the USGS Fundamental Science Practices website (https://www2.usgs.gov/fsp/).

Form 9-1366 (May 2018)

# U.S. Department of the Interior U.S. Geological Survey Joint Funding Agreement FOR

Customer #: 6000000249 Agreement #: 19EMNF0000201

**Customer Technical Point of Contact** 

Project #: NF00GWR TIN #: 31-6400223

### **Water Resource Investigations**

**USGS Technical Point of Contact** 

9. Billing for this agreement will be rendered **<u>quarterly</u>**. Invoices not paid within 60 days from the billing date will bear Interest, Penalties, and Administrative cost at the annual rate pursuant the Debt Collection Act of 1982, (codified at 31 U.S.C. § 3717) established by the U.S. Treasury.

Name: Address: Telephone: Fax: Email:	David Straub Supervisory Hydrologist (Engineer) 6460 Busch Boulevard Columbus, OH 43229-1753 (614) 430-7744 (614) 430-7777 destraub@usgs.gov	Name: Address: Telephone: Fax: Email:	Matthew Steele 910 Dublin Road Columbus, Ohio 43215 (614) 645-7020 mksteele@columbus.gov
	USGS Billing Point of Contact		Customer Billing Point of Contact
Name:	Damon Williams	Name:	Matthew Steele
Address: Telephone: Fax: Email:	5957 Lakeside Blvd. Indianapolis, IN 46278 (317) 209-3333 dlwilliams@usgs.gov	Address: Telephone: Fax: Email:	910 Dublin Road Columbus, Ohio 43215 (614) 645-7020 mksteele@columbus.gov
	U.S. Geological Survey United States Department of Interior  Signature		City of Columbus, OH <u>Signatures</u>
By Name: Michae Title: Director		By Name: Title:	Date:
		By Name: Title:	Date:
		By Name: Title:	Date:

## **City of Columbus, OH**Attachment for 19EMNF0000201 10/1/2018 to 9/30/2019

		SURFACE	WATER				
SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. OTHER CASH FUNDS	TOTAL COST
03219500	Scioto River near Prospect OH Full Range Streamflow Station	QCONT	0.5	l SW Total:	\$3,820	\$6,940	\$10,760
03220000	Mill Creek near Bellepoint OH Full Range Streamflow Station	QCONT	0.44	l SW Total:	\$3,490	\$6,710	\$10,200
03220500	OShaughnessy Reservoir near Dubli Elevation, Continuous	n OH ELEVCONT	0.88	0.5 SW Total:	\$2,180	\$3,500	\$5,680
03221000	Scioto River below OShaughnessy D Full Range Streamflow Station	am nr Dublin QCONT	OH 0.6	l SW Total:	\$3,820	\$8,940	\$12,760
03221500	Griggs Reservoir at Columbus OH Elevation, Continuous	ELEVCONT	0.5	0.9 SW Total:	\$2,180	\$3,500	\$5,680
03221646	Scioto River at 5th Ave at Columbus Full Range Streamflow Station	OH QCONT	1	l SW Total:		\$14,500	\$14,500
03225500	Olentangy River near Delaware OH Full Range Streamflow Station	QCONT	0.34	l SW Total:	\$2,720	\$4,780	\$7,500
03226800	Olentangy River near Worthington C Full Range Streamflow Station	OH QCONT	0.57	l SW Total:	\$3,490	\$8,410	\$11,900
03227107	Olentangy River at J H Herrick Dr at C Full Range Streamflow Station	Columbus OH QCONT	1	l SW Total:		\$14,500	\$14,500
03228300	Big Walnut Creek at Sunbury OH Full Range Streamflow Station	QCONT	0.71	l SW Total:	\$4,020	\$10,480	\$14,500
03228400	Hoover Reservoir at Central College Elevation, Continuous	OH ELEVCONT	0.91	0.5 SW Total:	\$2,180	\$3,500	\$5,680
03228500	Big Walnut Creek at Central College Full Range Streamflow Station	OH QCONT	0.71	l SW Total:	\$4,020	\$10,480	\$14,500
03228750	Alum Creek near Kilbourne OH Full Range Streamflow Station	QCONT	0.78	l SW Total:	\$3,050	\$11,450	\$14,500
03229500	Big Walnut Creek at Rees OH Full Range Streamflow Station	QCONT	0.71	l SW Total:	\$4,020	\$10,480	\$14,500
03229610	Scioto River near Commercial Point Full Range Streamflow Station	OH QCONT	0.7	l SW Total:	\$4,180	\$10,320	\$14,500
03230450	Hellbranch Run near Harrisburg OH Full Range Streamflow Station	QCONT	0.82	l SW Total:	\$2,515	\$11,985	\$14,500
,			SW	Grand Total:	\$45,685	\$140,475	\$186,160

WATER QUALITY							
SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. OTHER CASH FUNDS	TOTAL COST
03219500	Scioto River near Prospect OH Water Quality, Continuous	WQCONT	1	l <b>WQ Total</b> :	:	\$21,000	\$21,000
03220500	OShaughnessy Reservoir near Dublin OH Miscellaneous QW	QW-MISC	1	l <b>WQ Total</b> :	\$167	\$500	\$667
03220510	Scioto R. at OShaughnessy Dam near Dublin Water Quality, Continuous	OH WQCONT	1	l <b>WQ Total</b> :	:	\$21,000	\$21,000
03221500	Griggs Reservoir at Columbus OH Miscellaneous QW	QW-MISC	1	1 <b>WQ Total</b> :	\$167	\$500	\$667
03228039	Scioto River above Shadeville OH Water Quality, Continuous	WQCONT	1	l <b>WQ Total</b> :	:	\$22,000	\$22,000
03228300	Big Walnut Creek at Sunbury OH Water Quality, Continuous	WQCONT	1	l <b>WQ Total</b> :	:	\$21,000	\$21,000
03228400	Hoover Reservoir at Central College OH Miscellaneous QW	QW-MISC	1	l <b>WQ Total</b> :	\$166	\$500	\$666
03230450	Hellbranch Run near Harrisburg OH Periodic Sample Collection and Processing Daily Suspended Sediment	WQSPER DSuspSed	1 1	l l <b>WQ Total</b> :		\$25,000 \$36,400	\$61,400
			WQ (	Grand Total:	\$500	\$147,900	\$148,400

GROUND WATER							
SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. OTHER CASH FUNDS	TOTAL COST
394903083015400	FR-366 Groundwater level, Continuous	GWCONT	1	l <b>GW Total:</b>		\$2,000	\$2,000
395008082593100	FR-126 M13 Groundwater level, Continuous	GWCONT	1	l <b>GW Total:</b>		\$2,000	\$2,000
395039082585800	FR-115 TH-67 Groundwater level, Continuous	GWCONT	1	l <b>GW Total:</b>		\$2,000	\$2,000
395055082592400	FR-271 PARSONS AVE WTP DEEP Groundwater level, Continuous	WELL AT COLU GWCONT	MBUS OH 1	l <b>GW Total:</b>		\$2,000	\$2,000
395055082592401	FR-272 PARSONS AVE WTP SHALL Groundwater level, Continuous	OW WELL AT C	OLUMBU:	S OH 1 <b>GW Total:</b>		\$2,000	\$2,000
			GW	Grand Total:		\$10,000	\$10,000

SUMMARY FOR 19EMNF0000201								
City of Columbus, OH								
ТУРЕ		USGS FUNDS	CUST. CASH	OTHER FUNDS	TOTAL COST			
SURFACE WATER (SW)	·	\$45,685	\$140,475		\$186,160			
WATER QUALITY (WQ)		\$500	\$147,900		\$148,400			
GROUND WATER (GW)			\$10,000		\$10,000			
	GRAND TOTAL	\$71,795	\$340,894		\$412,689			