



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

May 27, 2021

Mr. Matthew Steele
Water Supply and Treatment Coordinator
City of Columbus
910 Dublin Road
Columbus, Ohio 43215

Dear Mr. Steele:

Enclosed is a signed original of our standard joint-funding agreement 22NFJFA00000201 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, 2021 through September 30, 2022 in the amount of \$341,644 from your agency. U.S. Geological Survey contributions for this agreement are \$71,795 for a combined total of \$413,439. Please sign and return one fully-executed original to Damon Williams at the Indianapolis address above or email to dlwilliams@usgs.gov.

Federal law requires that we have a signed agreement before we start or continue work. Please return the signed agreement by **October 1, 2021**. 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) 600-2774 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
22NFJFA00000201 (1)



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USGS Partner and Cooperator

The USGS will only allow usage of logos that have written permission from the organization directly. Some examples of usage include (*but are not limited to*) internal and public facing websites, PowerPoint presentations, and published reports/articles.

As a valued partner/cooperator, we want to proudly display your logo, however, we require written permission from your organization allowing the USGS to use your logo.

I would encourage you to send us an approved logo along with this written/signed permission.

The electronic version of the logo or an internet link can be emailed to mgriffin@usgs.gov

By signing this permission slip below, I am granting the USGS usage of the organizational logo on USGS sites and products.

I, _____ of the _____ give the USGS
permission to use our logo as outlined above.

Thank you for your continued support and we look forward to continuing our partnership into the future.

Sincerely,

Michael Griffin
Director

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the October 1, 2021, 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 Water Resource Investigations (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

- (a) \$71,795 by the party of the first part during the period October 1, 2021 to September 30, 2022
- (b) \$341,644 by the party of the second part during the period October 1, 2021 to September 30, 2022
- (c) 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
- (d) 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.
- (e) 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://www.usgs.gov/about/organization/science-support/science-quality-and-integrity/fundamental-science-practices>).

Form 9-1366
(May 2018)

U.S. Department of the Interior
U.S. Geological Survey
Joint Funding Agreement
FOR
Water Resource Investigations

Customer #: 600000249
Agreement #: 22NFJFA00000201
Project #: NF00GWR
TIN #: 31-6400223

9. Billing for this agreement will be rendered quarterly. 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.

USGS Technical Point of Contact

Name: David Straub
Supervisory Hydrologist (Engineer)
Address: 6460 Busch Blvd Suite 100 Columbus
OH 43229-1753 US
Columbus, OH 43229-1753
Telephone: (614) 430-7744
Fax: (614) 430-7777
Email: destraub@usgs.gov

Customer Technical Point of Contact

Name: Matthew Steele
Water Supply and Treatment Coordinator
Address: 910 Dublin Road
Columbus, Ohio 43215
Telephone: (614) 645-7020
Fax:
Email: mksteele@columbus.gov

USGS Billing Point of Contact

Name: Damon Williams
Budget Analyst
Address: 5957 Lakeside Blvd.
Indianapolis, IN 46278
Telephone: (317) 600-2774
Fax: (317) 290-3313
Email: dlwilliams@usgs.gov

Customer Billing Point of Contact

Name: Matthew Steele
Water Supply and Treatment Coordinator
Address: 910 Dublin Road
Columbus, Ohio 43215
Telephone: (614) 645-7020
Fax:
Email: mksteele@columbus.gov

U.S. Geological Survey
United States
Department of Interior

City of Columbus, OH

Signature

Signatures

By _____ Date: 05/27/2021
Name: Michael Griffin
Title: Director

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title:

City of Columbus, OH
Attachment for 22NFJFA00000201
10/1/2021 to 9/30/2022

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	1	\$3,820	\$6,940	
				SW Total:			\$10,760
03220000	Mill Creek near Bellepoint OH Full Range Streamflow Station	QCONT	0.44	1	\$3,490	\$6,710	
				SW Total:			\$10,200
03220500	OShaughnessy Reservoir near Dublin OH Elevation, Continuous	ELEVCONT	0.88	0.5	\$2,180	\$3,500	
				SW Total:			\$5,680
03221000	Scioto River below OShaughnessy Dam nr Dublin OH Full Range Streamflow Station	QCONT	0.6	1	\$3,820	\$8,940	
				SW Total:			\$12,760
03221500	Griggs Reservoir at Columbus OH Elevation, Continuous	ELEVCONT	0.5	0.9	\$2,180	\$3,500	
				SW Total:			\$5,680
03221646	Scioto River at 5th Ave at Columbus OH Full Range Streamflow Station	QCONT	1	1		\$14,500	
				SW Total:			\$14,500
03225500	Olentangy River near Delaware OH Full Range Streamflow Station	QCONT	0.34	1	\$2,720	\$4,780	
				SW Total:			\$7,500
03226800	Olentangy River near Worthington OH Full Range Streamflow Station	QCONT	0.57	1	\$3,490	\$8,410	
				SW Total:			\$11,900
03227107	Olentangy River at J H Herrick Dr at Columbus OH Full Range Streamflow Station	QCONT	1	1		\$14,500	
				SW Total:			\$14,500
03228300	Big Walnut Creek at Sunbury OH Full Range Streamflow Station	QCONT	0.71	1	\$4,020	\$10,480	
				SW Total:			\$14,500
03228400	Hoover Reservoir at Central College OH Elevation, Continuous	ELEVCONT	0.91	0.5	\$2,180	\$3,500	
				SW Total:			\$5,680
03228500	Big Walnut Creek at Central College OH Full Range Streamflow Station	QCONT	0.71	1	\$4,020	\$10,480	
				SW Total:			\$14,500
03228750	Alum Creek near Kilbourne OH Full Range Streamflow Station	QCONT	0.78	1	\$3,050	\$11,450	
				SW Total:			\$14,500
03229500	Big Walnut Creek at Rees OH Full Range Streamflow Station	QCONT	0.71	1	\$4,020	\$10,480	
				SW Total:			\$14,500
03229610	Scioto River near Commercial Point OH Full Range Streamflow Station	QCONT	0.7	1	\$4,180	\$10,320	
				SW Total:			\$14,500
03230450	Hellbranch Run near Harrisburg OH Full Range Streamflow Station	QCONT	0.82	1	\$2,515	\$11,985	
				SW Total:			\$14,500
				SW Grand Total:	\$45,685	\$140,475	\$186,160

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST.OTHER CASHFUNDS	TOTAL COST
03219500	Scioto River near Prospect OH Water Quality, Continuous	WQCONT	1	1		\$21,000	
				WQ Total:			\$21,000
03220500	OShaughnessy Reservoir near Dublin OH miscellaneous QW	QW-MISC	1	1	\$167	\$500	
				WQ Total:			\$667
03220510	Scioto R. at OShaughnessy Dam near Dublin OH Water Quality, Continuous	WQCONT	1	1		\$21,000	
				WQ Total:			\$21,000
03221500	Griggs Reservoir at Columbus OH miscellaneous QW	QW-MISC	1	1	\$167	\$500	
				WQ Total:			\$667
03228039	Scioto River above Shadeville OH Water Quality, Continuous	WQCONT	1	1		\$22,000	
				WQ Total:			\$22,000
03228300	Big Walnut Creek at Sunbury OH Water Quality, Continuous	WQCONT	1	1		\$21,000	
				WQ Total:			\$21,000
03228400	Hoover Reservoir at Central College OH miscellaneous QW	QW-MISC	1	1	\$166	\$500	
				WQ Total:			\$666
03230450	Hellbranch Run near Harrisburg OH Periodic Sample Collection and Processing	WQSPER	1	1		\$25,000	
				WQ Total:			\$25,000
394534082595200PK-236 ESW-6C	Water Quality, Continuous	WQCONT	1	1	\$10,000	\$10,000	
				WQ Total:			\$20,000
WQ Grand Total:					\$10,500	\$121,500	\$132,000

GROUND WATER

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. OTHER CASH FUNDS	TOTAL COST
394534082595200	PK-236 ESW-6C Groundwater level, Continuous	GWCONT	1	1		\$2,000	
				GW Total:			\$2,000
394903083015400	FR-366 Groundwater level, Continuous	GWCONT	1	1		\$2,000	
				GW Total:			\$2,000
395008082593100	FR-126 M13 Groundwater level, Continuous	GWCONT	1	1		\$2,000	
				GW Total:			\$2,000
395039082585800	FR-115 TH-67 Groundwater level, Continuous	GWCONT	1	1		\$2,000	
				GW Total:			\$2,000
395055082592400	FR-271 PARSONS AVE WTP DEEP WELL AT COLUMBUS OH Groundwater level, Continuous	GWCONT	1	1		\$2,000	
				GW Total:			\$2,000
395055082592401	FR-272 PARSONS AVE WTP SHALLOW WELL AT COLUMBUS OH Groundwater level, Continuous	GWCONT	1	1		\$2,000	
				GW Total:			\$2,000
				GW Grand Total:		\$12,000	\$12,000

SEDIMENT

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. CASH	OTHER FUNDS	TOTAL COST
03230450	Hellbranch Run near Harrisburg OH Daily Suspended Sedment	DSuspSed	1	1		\$36,400		
				SED Total:				\$36,400
					SED Grand Total:	\$36,400		\$36,400

CLIMATE

SITE NUMBER	DESCRIPTION	CODE	NO. UNITS	DIFF FACTOR	USGS FUNDS	CUST. CASH FUNDS	OTHER FUNDS	TOTAL COST
401410082510500	Rain gage at Sunbury OH Precipitation, Continuous	PRECIPCONT	1	1		\$750		
CLIM Total:								\$750
CLIM Grand Total:						\$750		\$750

STUDIES/SUPPORT

DESCRIPTION	CODE	REMARKS	USGS FUNDS	CUST. CASH FUNDS	OTHER FUNDS	TOTAL COST
Conduct Research	CR	DOW	\$15,610	\$30,519		
SUPPORT Total:						\$46,129
SUPPORT Grand Total:			\$15,610	\$30,519		\$46,129

SUMMARY FOR 22NFJFA00000201

City of Columbus, OH

TYPE	USGS FUNDS	CUST. CASH	OTHER FUNDS	TOTAL COST
SURFACE WATER (SW)	\$45,685	\$140,475		\$186,160
(WQ)	\$10,500	\$121,500		\$132,000
GROUND WATER (GW)		\$12,000		\$12,000
SEDIMENT (SED)		\$36,400		\$36,400
CLIMATE (CLIM)		\$750		\$750
STUDIES/SUPPORT	\$15,610	\$30,519		\$46,129
GRAND TOTAL	\$71,795	\$341,644		\$413,439