



United States Department of the Interior

U.S. GEOLOGICAL SURVEY

Upper Midwest Water Science Center

Minnesota Office
2280 Woodale Drive
Mounds View, MN 55112
763.783.3100

Wisconsin Office
8505 Research Way
Middleton, WI 53562
608.828.9901

Michigan Office
5840 Enterprise Drive
Lansing, MI 48911
517.887.8903

August 18, 2021

Mr. Paul McDonald
Michigan Department of Environment, Great Lakes & Energy
525 W. Allegan Street
Lansing, MI 48933

Dear Mr. McDonald:

Attached is a signed original of our standard Joint Funding Agreement for the project Upper Midwest Water Science Center Water Resources Investigations and Michigan Department of Environment, Great Lakes & Energy for the project "Remotely-sense Water Quality of Michigan Lakes" during the period September 1, 2021 through December 31, 2023. The amount of \$200,000 from your agency and from the U.S. Geological Survey contributions for this agreement are \$150,000 for a combined total of \$350,000. Please sign and return one fully-executed original to Lisa Syde-Hagen at the email address lsyde-hagen@usgs.gov.

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 Angela Hughes at email at amhughes@usgs.gov.

The results of all work performed under this agreement will be available for publication by the U.S. Geological Survey. We look forward to continuing this and future cooperative efforts in these mutually beneficial water resources studies.

Sincerely,

**RALPH
HAEFNER**

Digitally signed by RALPH HAEFNER
Date: 2021.08.18 14:21:57 -0400

Ralph Haefner
Acting for Center Director

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

Fixed Cost Agreement YES[X] NO[]

THIS AGREEMENT is entered into as of the September 1, 2021, by the U.S. GEOLOGICAL SURVEY, Upper Midwest Water Science Center, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Michigan Department of Environment, Great Lakes & Energy party of the second part.

1. The parties hereto agree that subject to the availability of appropriations and in accordance with their respective authorities for the project "Remotely-sense Water Quality of Michigan Lakes", 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) \$150,000 by the party of the first part during the period September 1, 2021 to December 31, 2023
- (b) \$200,000 by the party of the second part during the period September 1, 2021 to December 31, 2023
- (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of:

Description of the USGS regional/national program:
- (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>).

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

Customer #: 6000001255
Agreement #: 21NKJFA215
Project #: NK00LZB25
TIN #: 38-6000134

Water Resource Investigations

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: Richard Kiesling
Hydrologist
Address: 2280 Woodale Drive
Mounds View, MN 55112
Telephone: (763) 783-3131
Fax:
Email: Kiesling@usgs.gov

Customer Technical Point of Contact

Name: Sarah Holden
Water Resources Division
Address: 525 W. Allegan Street
Lansing, MI 48933
Telephone: (517) 243-6421
Fax:
Email: HoldenS1@Michigan.gov

USGS Billing Point of Contact

Name: Angela Hughes
Admin.Ops. Assistant
Address: 2280 Woodale Drive
Mounds View, MN 55112
Telephone:
Fax:
Email: amhughes@usgs.gov

Customer Billing Point of Contact

Name: Sam Czubak
Water Resources Division
Address: 525 W. Allegan Street
Lansing, MI 48933
Telephone:
Fax:
Email: czubacks@Michigan.gov

U.S. Geological Survey
United States
Department of Interior


Michigan Department of Environmental Quality

Signature

RALPH
HAEFNER
By _____ Date: _____
Name: Ralph Haefner
Title: Acting for Center Director

Digitally signed by RALPH HAEFNER
Date: 2021.08.16 14:23:16 -0400

Signatures

By  Date: 8/26/2021
Name: Paul McDonald
Title: Chief Financial Officer

By _____ Date: _____
Name:
Title:

By _____ Date: _____
Name:
Title: