

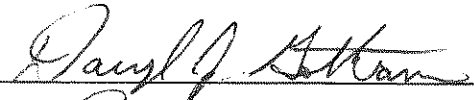
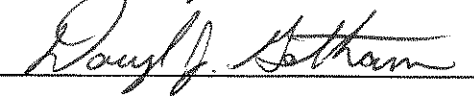
PERMIT APPLICATION FOR WATER SUPPLY SYSTEMS
 (CONSTRUCTION - ALTERATION - ADDITION OR IMPROVEMENT) AS DESCRIBED HEREIN
 Required under the Authority of 1976 PA 399, as amended

This application becomes an Act 399 Permit only when signed and issued by authorized Michigan Department of Environmental Quality (DEQ) Staff. See instructions below for completion of this application.

<p>1. Municipality or Organization, Address and WSSN that will own or control the water facilities to be constructed. This permit is to be issued to: Karegnondi Water Authority c/o Genesee County Drain Commissioner - Div. of Water and Waste Services G-4610 Beecher Road Flint, MI 48532 WSSN: 03563</p>	<p align="center">Permit Stamp Area (DEQ use only)</p> <p align="center">MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY</p> <p align="center">PERMIT NO. W 14 2004 FEB 27 '14</p> <p align="center">EXAMINED AND APPROVED FOR COMPLIANCE WITH ACT 399, P.A. 1976</p>	
<p>2. Owner's Contact Person (provide name for questions): Contact: John F. O'Brien, P.E. Title: Deputy CEO Phone: 810-732-7870</p>		
<p>3. Project Name (Provide phase number if project is segmented): Lake Huron Pump Station Contract S.4001</p>	<p>4. Project Location (City, Village, Township): Worth Twp.</p>	<p>5. County (location of project): Sanilac</p>

ISSUED UNDER THE AUTHORITY OF THE DIRECTOR OF THE DEPARTMENT OF ENVIRONMENT QUALITY

cc: Hubbell, Roth & Clark
 Sanilac County Health Department

Issued by: 
 Reviewed by: 

If this box is marked see attached special conditions.

Instructions: Complete items 1 through 5 above and 6 through 21 on the following pages of this application. Print or type all information except for signatures. Mail completed application, plans and specifications, and any attachments to the DEQ District Office having jurisdiction in the area of the proposed construction.

Please Note:

- a. This **PERMIT** only authorizes the construction, alteration, addition or improvement of the water system described herein and is issued solely under the authority of 1976 PA 399, as amended.
- b. The issuance of this **PERMIT** does not authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits, including any other DEQ permits, or approvals from other units of government as may be required by law.
- c. This **PERMIT** expires two (2) years after the date of issuance in accordance with R 325.11306, 1976 PA 399, administrative rules, unless construction has been initiated prior to expiration.
- d. Noncompliance with the conditions of this permit and the requirements of the Act constitutes a violation of the Act.
- e. Applicant must give notice to public utilities in accordance with 1974 PA 53, (MISS DIG), being Section 460.701 to 460.718 of the Michigan Compiled Laws, and comply with each of the requirements of that Act.
- f. All earth changing activities must be conducted in accordance with the requirements of the Soil Erosion and Sedimentation Control Act, Part 91, 1994 PA 451, as amended.
- g. All construction activity impacting wetlands must be conducted in accordance with the Wetland Protection Act, Part 303, 1994 PA 451, as amended.
- h. Intentionally providing false information in this application constitutes fraud which is punishable by fine and/or imprisonment.
- i. Where applicable for water withdrawals, the issuance of this permit indicates compliance with the requirements of Part 327 of Act 451, Great Lakes Preservation Act.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit Application for Water Systems (Continued)

6. **Facilities Description** – In the space below provide a detailed description of the proposed project. Applications without adequate facilities descriptions will be returned. SEE EXAMPLES BELOW. Use additional sheets if needed.

The Lake Huron Pump Station will be 60 MGD Firm Capacity Raw Water Pump Station including four vertical turbine pumps with appurtenances and enclosure building that will be constructed above a reinforced concrete wetwell structure at the end of the intake from Lake Huron being completed by others under Contract S.4000. The work includes site improvements, a meter vault and approximately 820 linear feet of 66 inch Class 250 steel pipe transmission main that will connect to Contract S.4002 all complete as shown on the Drawings for this Contract S.4001. The concrete wetwell up to and including elevation 590 is currently being constructed by L. D'Agostini and Sons (LDS) under the S.4000 contract with the Genesee County Drain Commissioner and will be completed to the extent as shown on the drawings so that the work of Contract S.4001 can proceed. The Project is more completely described in the Project Design Report attached herein.

EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES – EXAMPLES

Water Mains	500 feet of 8-inch water main in First Street from Main Street north to State Street. OR 250 feet of 12-inch water main in Clark Road from an existing 8-inch main in Third Avenue north to a hydrant.
Booster Stations	A booster station located at the southwest corner of Third Avenue and Main Street, and equipped with two, 15 Hp pumps each rated 150 gpm @ 200 feet TDH. Station includes backup power and all other equipment as required for proper operation.
Elevated Storage Tank	A 300,000 gallon elevated storage tank located in City Park. The proposed tank shall be spherical, all welded construction and supported on a single pedestal. The tank shall be 150 feet in height, 40 feet in diameter with a normal operating range of 130 – 145 feet. The interior coating system shall be ANSI/NSF Standard 61 approved or equivalent. The tank will be equipped with a cathodic protection system, and includes a tank level control system with telemetry.
Chemical Feed	A positive displacement chemical feed pump, rated at 24 gpd @ 110 psi to apply a chlorine solution for Well No. 1. Chlorine is 12.5% NaOCL, ANSI/NSF Standard 60 approved and will be applied at a rate of 1.0 mg/l of actual chlorine.
Water Supply Well	Well No. 3, a 200 foot deep well with 170 feet of 8-inch casing and 30 feet of 8-inch, 10 slot screen. The well will be equipped with a 20 Hp submersible pump and motor rated 200 gpm @ 225 feet TDH, set at 160 feet below land surface.
Treatment Facilities	A 5 million gpd water treatment plant located at the north end of Second Avenue. The facility will include 6 low service pumps, 2 rapid mix basins, 4 flocculation/sedimentation basins, 8 dual media filters, 3 million gallon water storage reservoir and 6 high service pumps. Also included are chemical feed pumps and related appurtenances for the addition of alum, fluoride, phosphate and chlorine.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit Application for Water Systems (Continued)

General Project Information – Complete all boxes below.

7. Design engineer's name, engineering firm, address, phone number, and email address:

Dennis J. Benoit, P.E.
Hubbell, Roth & Clark, Inc.
555 Hulet Drive; PO Box 824
Bloomfield Hills, MI 48303-0824
616-432-6195 dbenoit@hrc-engr.com

8. Indicate who will provide project construction inspection:

- Organization listed in Box 1.
 Engineering firm listed in Box 7.
 Other - name, address, and phone number listed below.

9. Is a basis of design attached?

- YES NO

If no, briefly explain why a basis of design is not needed.

10. Are sealed and signed engineering plans attached?

- YES NO

If no, briefly explain why engineering plans are not needed.

11. Are sealed and signed construction specifications attached?

- YES NO

If specifications are not attached, they need to be on file at DEQ.

12. Were Recommended Standards for Water Works, Suggested Practice for Water Works, AWWA guidelines, and the requirements of Act 399 and its administrative rules followed?

- YES NO

If no, explain which deviations were made and why.

13. Are all coatings, chemical additives and construction materials ANSI/NSF or other adequate 3rd party approved?

- YES NO

If no, describe what coatings, additives or materials did not meet the applicable standard and why.

14. Are all water system facilities being installed in the public right-of-way or a dedicated utility easement?

(For projects not located in the public right-of-way, utility easements must be shown on the plans.)

- YES NO

If no, explain how access will be obtained.

15. Is the project construction activity within a wetland (as defined by Section 324.30301(d)) of Part 303, 1994 PA 451?

- YES NO

If yes, a wetland permit must be obtained.

16. Is the project construction activity within a 100-year floodplain (as defined by R 323.1311(e)) of Part 31, 1994 PA 451, administrative rules?

- YES NO

If yes, a flood plain permit must be obtained.

17. Is the project construction activity within 500 feet of a lake, reservoir, or stream?

- YES NO

If yes, a Soil and Erosion Control Permit must be obtained or indicate if the owner listed in box 2 of this application is an Authorized Public Agency (Section 10 of Part 91, 1994 PA 451) Owner is APA.

CONTINUATION SHEET FOR SPECIAL CONDITIONS:

SPECIAL CONDITIONS:

The Sanitary Tank must be relocated such that it is not in close proximity to the intake pipe. It appears that there is room for the tank closer to the Sanitary Field and on the northeast side of the access drive.

MDEQ USE ONLY

PERMIT NO. 142004	DATE: February 27, 2014	ISSUED TO: Sanilac County
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