

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY WATER RESOURCES DIVISION

PERMIT APPLICATION FOR WASTEWATER SYSTEMS

Construction - Alteration - Addition or Improvement as Described Herein Required under the Authority of Part 41, Sewerage Systems, of 1994 PA 451, as amended (Act 451)

This application becomes a Part 41 Construction Permit only when signed and issued by authorized DEQ staff.

INSTRUCTIONS: Complete items 1 through 32 on this form and complete the Project Basis of Design (attached form EQP-4600A) or provide same information. Print or type all information except for signatures. Complete the Streamlined Checklist (EQP5937) for sewer projects that qualify; checklist available at www.michigan.gov/deg (select Water; then select Wastewater Construction). Complete the Non-Governmental Ownership Checklist (attached form EQP-4600C) for non-governmentally owned projects. Deliver complete application, plans and specifications, and attachments to the DEQ district office having jurisdiction for the project.

PROCESSING TIME FRAME: Part 13, Permits, of Act 451 allows 150 days for processing of an administratively complete Part 41 permit application, with extensions available when requested by the applicant. However, permits are generally processed within 45 days or less for routine projects. For information regarding recent permit processing time frames, refer to the WRD Metrics Web page (refer to metric B-9). For a fee, an expedited permit review process is available for applicants seeking quicker review time frames: information about this process is available at www.michigan.gov/deg (select Water; then select Wastewater Construction) or click here.

REQUIRED NOTIFICATIONS: The permittee shall provide Startup Notification (just prior to excavation) including permit number and date of issuance and Completion Notification (upon completion of the project) including permit number and date of issuance to the DEQ district office having jurisdiction for the project (attached form EQP-4600B).

PERMIT NUMBER (DEQ USE ONLY)	DATE OF ISSUANCE (DEQ USE	ONLY)	
P41002052	MAY 21, 2019	,	
1. Municipality or Organization Name and Address that	Permit Stamp Area	(DEQ use only)	
will own the wastewater facilities to be constructed. This permit is to be	DEPARTMENT OF ENVIR	ONMENTAL QUALITY	
issued to:	DELIVERY OF ELVING		
City of Muskegon	PERMIT NUMBER		
PO Box 536	CHAILLE		
933 Terrace Street	DA 10000000	MV 04 C	
Muskegon, Michigan 49440	P4 10020521	TAT 21 2019	
2. Owner's Contact Person (provide name for questions)	,		
Contact: Dave Baker	AUTHORIZING SEWERAGE S	YSTEM CONSTRUCTION	
Phone: 231-724-4184	IN ACCORDANCE WITH ACT	7 451 DA 1004 DADT 41	
3. Project Name (Provide phase number if project is segmented)	4. Project Location	5. County (location of project)	
Westwood Sanitary Sewer Replacement	City of Muskegon	Muskegon	
LOCUED INDED THE AUTHORITY OF THE DIPLOTOR OF			

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

CC:

Muskegon County Health Department

cc/enc:

Mr. Tyler DeNooyer, P.E., Prein & Newhof, Inc.

Issued by: KRZ/6FE

Reviewed by: KRZ/6FE

If this box is marked see special conditions attached to this permit.

GENERAL PERMIT CONDITIONS

- This PERMIT only authorizes the construction, alteration, addition, or improvement of the wastewater system as described herein and is issued solely under the authority of Part 41 of Act 451.
- Issuance of this PERMIT does not authorize any violation of federal, state, or local laws or regulations, nor does it obviate the need to obtain other permits or approvals from the DEQ or other units of government as may be required by law.
- This PERMIT expires two (2) years after the above date of issuance unless construction starts prior to the expiration date in accordance with R 299.2939(2) of the Part 41 Administrative Rules.
- Any portion of the herein described facilities constructed prior to the date of issuance is not authorized by this PERMIT and is a violation of Act 451.
- No sewer shall be placed into service unless and until the outlet sewer has been constructed, tested, and placed into service.
- Failure to meet any condition of this PERMIT or any requirement of Act 451 constitutes a violation of Act 451. f.
- The applicant must provide notice of impending construction to public utilities and comply with the requirements of the Protection of Underground Facilities Act, 1974 PA 53, as amended (MISS DIG).
- All earth changing activities must be conducted in accordance with Part 91, Soil Erosion and Sedimentation Control, of Act 451.
- All construction activity impacting wetlands shall be conducted in accordance with Part 303, Wetlands Protection, of Act 451,
- Intentionally providing false information in this application constitutes a violation of Section 249 of the Michigan Penal Code. 1931 PA 328, as amended.

Page 1 of 4



6. **Facilities Description** In the space below, provide a detailed description of the proposed project in the format shown in the examples at the bottom of this page. Applications with inadequate facilities descriptions will be returned. Use additional sheets if needed.

THE WESTWOOD SANITARY SEWER REPLACEMENT PROJECT INVOLVES REROUTING THE SEWER ON WESTWOOD TO FLOW BY GRAVITY FROM RANDOLPH AVENUE TO GLEN AVENUE INSTEAD OF THROUGH THE EXISTING 12" ALLEY SEWER BETWEEN WESTWOOD STREET AND HADDEN STREET. THE PROJECT INVOLVES DEEPENING THE SANITARY SEWER ON WESTWOOD IN ORDER TO PROVIDE ADDITIONAL GRADE FOR FUTURE SEWER REPLACEMENT UPSTREAM WHICH WOULD REPLACE THE ALLEY SEWERS WITH NEW SANITARY SEWERS IN THE ROAD RIGHT-OF-WAY. THE PROJECT REQUIRES REROUTING THE SANITARY LATERALS ON THE EAST SIDE OF WESTWOOD STREET FROM THE ALLEY SEWER TO THE NEW SEWER IN WESTWOOD STREET.

THE PROJECT INCLUDES THE FOLLOWING APPROXIMATE QUANTITIES:

- 1,360 FEET OF 8" SANITARY SEWER IN WESTWOOD STREET FROM RANDOLPH AVENUE TO GLEN AVENUE.
- 540 FEET OF 8" SANITARY SEWER AND 20 FEET OF 12" SANITARY SEWER IN GLEN AVENUE FROM THE EXISTING SANITARY SEWER NEAR RUDDIMAN CREEK TO WICKHAM AVENUE.
- 145 FEET OF 8" SANITARY SEWER IN LEXINGTON AVENUE FROM WESTWOOD STREET EAST TO THE ALLEY.

EXAMPLES OF FACILITIES DESCRIPTIONS		
Sanitary	250 feet of 10" sanitary sewer in Mark Avenue between John and Lincoln Streets.	
Sewers and/or	<u>OR</u>	
Force Mains	250' of 10" sewer in an easement from the intersection of Mark Avenue and John Street to the north.	
Pumping Stations	A wetwell/drywell, suction lift, submersible, etc. pumping station rated for 250 gpm at a TDH of 34' located at the northeast corner of Mark Avenue and Lincoln Street, and equipped with two pumps.	
100	backup power, pump around capability, and all other equipment as required for proper operation.	
Wastewater Treatment Facilities	A 10 million gpd (avg. flow) facility located at the north end of Ronald Street including a 2.0 million gallon equalization basin, six 0.5 million gallon primary clarifiers, four 0.75 million gallon aeration basins with fine bubble aerators, four 0.8 million gallon circular secondary clarifiers, ultraviolet disinfection, and all necessary appurtenances and piping as shown on the plans and described in the specifications for the proper operation of the treatment facility to provide a discharge quality in compliance with the facility's	
	discharge permit.	

⊋ ⊲Page 2 of 4

MAY 13 2019

DEQ WATER RESOURCES DIVISION GRAND RAPIDS



GENERAL PROJECT INFORMATION – Complete All Boxes Below				
7. Design engineer's name, engineering firm, address, phone no., and e-mail address: Tyler DeNooyer, P.E. Prein&Newhof, Inc. 4910 Stariha Drive, Muskegon, MI 49441 (231) 798-0101, tdenooyer@preinnewhof.com				
9. Indicate who will provide project		watering expected for this project?		
construction inspection:	☐ YES ☒ NO	(*************************************		
Engineering firm listed in Box 7	If YES, provide dewate	ering specifications.		
Other - name, organization, address, and phone no.:		Il water wells or water bodies be impacted?		
	NOTE: If groundwater dewatering is expected, and especially if it may result in a large quantity withdrawal (greater than 70 gallons per minute), registration with the DEQ is required and a permit may be necessary. For more information, please contact the Water Use Program staff . If a Part 327 permit is required, it may cause delay in issuance of a Part 41 permit, and/or result in project design revisions.			
11. To which wastewater collection s	system will the project	12. To which wastewater treatment syste	em will the project	
connect? City of Muskegon	yotom will allo project	connect? Muskegon County	and project	
definition. They of internegen		Final discharge is to: Surface Water Surface Water		
13. Will this project be within 50 ft. of a private water well? YES NO If YES, locate on plans. 14. Will this project be within 200 ft. of a public of the		public water well?		
	5. Is the project construction activity within a wetland (as 16. Is the project construction activity within a 100-year			
defined by Section 30301(p) of Part 303 of Act 451)? floodplain (as defined by Section 3101 of Part 31, Water		Part 31, Water		
☐ YES ☒ NO	ŕ	Resources Protection, of Act 451, and th	e associated	
If YES, has application been made for	or a wetland permit?	Administrative Rules)?		
☐ YES ☐ NO ☐ YES ☒ NO				
If YES, has application been made for a floodplain p		floodplain permit?		
		☐ YES ☐ NO		
17. Is the project construction activity below the ordinary 18. Is the project construction activity within 500 ft. of a lake			hin 500 ft. of a lake,	
high water mark of an inland lake or stream (as defined by reservoir, or stream? XYES NO		Call Francism and		
Section 30101(f) of Part 301 of Act 451)? If YES, has application been made for a Soil Erosion at				
☐ YES ☑ NO Sedimentation Control Permit? ☑ YES ☐ NO If YES, has application been made for an inland lakes and Is owner listed in box 2 of this application an Authorized				
If YES, has application been made for an inland lakes and streams permit? YES NO Streams permit? NO Public Agency (Section 9110 of Part 91 of Act 451)?				
streams permit: 120 100	8	Tubility Agency (ecclion 3110 of 1 art 31)	717101 4017:	
19. Will the proposed construction activity be part of a project involving the disturbance of five (5) or more acres of land?				
		ons regarding the storm water regulations		
		rge Elimination System (NPDES) storm w		
YES: Attach copy of application of	r NPDES authorization	to discharge storm water from construction	on activities.	
NO: Describe why activity is not r				
20. Is the project in or adjacent to a s	site of known soil or gro	undwater contamination? 🗌 YES 🛛 🛚	0	
If YES, attach a copy of a plan acceptable to the DEQ for handling contaminated soils and/or groundwater disturbed				
during construction. Contact the local DEQ office for listings of Michigan sites of environmental contamination.				
SEWER SYSTEM CAPACITY				
	ncerns in the collection	system downstream of the proposed	Flow	
project? TES NO If YES, include a full explanation with the application.		Rate Units		
22. Proposed project peak design flo			96 GPM	
23. Total capacity of the existing out			3,733 GPM	
24. Current peak hour flow into the existing outlet sewer: No proposed increase in flow rate		N/A GPM		
25. Design capacity of nearest downstream pumping station (largest pumping Station) N.A.] 11,285 GPM		
26. Current peak hour flow into nearest downstream pump station:		3,000 GPM		

Page 3 of 4

MAY 13 2019



- orman application for masternator dysterna (somandou)				
OVERFLOWS AND BASEMENT FLOODING – For Proposed Sewer Projects, Mark All Boxes That Apply 27. Has the downstream collection system overflowed or flooded basements in the past five years? ☐ YES ☒ NO If YES, attach a listing of events in the past five years including date, location, cause, and corrective action. 28. Has the downstream collection system owner entered into an agreement satisfactory to the DEQ to address sanitary sewer overflows and flooding of basements? ☐ YES ☒ NO If YES, enter agreement name and number:				
20 TREATED WASTEWATER DISCHARGE AUTHORIZ	ATION - Mark Royas As Appropriate			
29. TREATED WASTEWATER DISCHARGE AUTHORIZATION — Mark Boxes As Appropriate A. Does project include a new treatment facility or expansion, a change in discharge method, or a new discharge location? ☐ YES — Complete B below ☑ NO — skip to item 30				
 B. If A is marked YES, indicate discharge authorization and provide the requested information: 1. NPDES or Groundwater Discharge Permit No: Permit Authorized Flow Rate: Units: 2. Local health department approval. Include a copy of the approval with this application. 				
30. OWNERSHIP – Mark A or B as Appropriate Below				
 ☑ A. Ownership will be by a governmental entity before the s 	ewer is placed in service			
☐ B. Ownership will be by a governmental entity before the sewer is placed in service. ☐ B. Ownership will be by a non-governmental entity, and a completed Non-Governmental Ownership Checklist is included with this application.				
Note: A completed Non-Governmental Ownership Checklist (EQP-4600C) must be included with the application for non-governmentally owned projects . The checklist is attached to this application and the supporting information is available at www.michigan.gov/deq (select Water; then select Wastewater Construction).				
31. COMPLETE APPLICATION CHECKLIST — Please conchecklist. Mark the box if the condition is met. This will help re ☐ A. Items 1 to 30 of the application are completed. ☐ B. A contamination management plan is included for sites with known contamination (item 20). ☐ N.A. ☐ C. For projects with local health department discharge authorization, a copy of the health department authorization is included (item 29). ☐ N.A. ☐ D. For non-governmentally owned projects, provide the Non-Governmental Ownership Checklist and all documents required by the checklist (item 30). ☐ N.A.	onfirm that this application is complete by using this duce DEQ review time and speed permit issuance. E. Owner's certification signed and complete (item 32). F. A detailed basis of design is included with the application. Form EQP-4600A (attached) or similar form is completed providing information required by Rule 35(3) of the Part 41 Administrative Rules of Act 451. G. Final plans and specifications sealed and signed by a Michigan licensed professional engineer are provided.			
32. OWNER'S CERTIFICATION — The owner of the proposed facilities or the owner's authorized representative shall complete the following owner's certification: I, Dave Baker (name), acting as the Public Utilities Superintendent (title/position) for the City of Muskegon (entity owning proposed facilities) certify that the information provided in and with this application is true and accurate to the best of my knowledge, and I certify that the plans and specifications and other documents submitted to the DEQ with the Part 41 Permit Application accurately represent what I intend to construct under the terms of the Part 41 Permit, once issued. Also, I certify that this proposed project as detailed in the plans and specifications submitted under this application is in compliance with the requirement of Rule 41(a) of the Part 41 Administrative Rules of Act 451, which states that "Proper devices are or will be available and are in satisfactory operation for the collection, transportation and treatment before discharge into any public watercourse, lake, drain, ditch or groundwater, of the sewage or wastes collected or conveyed by such systems, or a definite program or agreement satisfactory to the department leading to the construction and operation of such collection, transportation or treatment devices shall have been officially adopted by the applicant for such permit and filed in the offices of the department." Further, I hereby acknowledge the requirement to provide Startup Notification (just prior to excavation) with the permit number and date of issuance and Completion Notification (upon completion of the project) with the permit number and date of issuance to the DEQ district office having jurisdiction for the project. SIGNATURE: DAVE BAKER PHONE: 231-724-4184				



PROJECT BASIS OF DESIGN

PROJECT NAME: Westwood Sanitary Sewer Replacement

For this PROJECT the following information must be provided per Rule 35(3) of the Part 41 Administrative Rules of Act 451. Attach additional sheets as necessary.

A.	A general map of the initial and ultimate service are Included on engineering plansX	eas _Attached sepa	arately		
В.	The design service area in acres	Initial 13.2 ac Ultimate 38.9 ac			
C.	The design population densities per acre	Initial <u>4.2</u>	Ultimate <u>4.2</u>		
D.	1. The ultimate design population or total Residential Equivalent Units (REU) 150 REU				
	2. The design per capita sewage contribution	(gpd) or des	ign contribution per REU <u>225 (g</u> pd)		
E.	The design commercial and industrial flow	Initial	0 gpd		
		Ultimate	0 gpd		
	Mark this box if any commercial or industrial user(s) served by this project are subject to the federal categorical pretreatment standards or may discharge substances with the potential to interfere with the operation of the wastewater collection and/or treatment system.				
F.	Wastewater flow rates for proposed project				
	1. Initial design average flow	<u>5</u>	Units gpm		
	2. Initial design peak flow	<u>20</u>	Units gpm		
	3. Ultimate design average flow	<u>24</u>	Units gpm		
	4. Ultimate design maximum flow (peak hour)	<u>96</u>	Units gpm		

- G. An analysis, including calculations and/or flow monitoring, of the effect of the proposed additional flows on the receiving collection system. No additional flows are added by this project.
- H. For proposed pump stations and treatment facilities, attach a detailed explanation of steps to be taken in case of power failure or equipment breakdown, including a description of special reserve units available for emergency treatment, storage, and/or transportation of the wastewater.

RECEIVED

MAY 13 2019

DEQ WATER RESOURCES DIVISION COMMUNICATION EQP4600-A (Rev. 01/18)