



# Grand Blanc Township Engineering Plan Review Guidebook

*February 2024*

**Department of Public Works**  
5371 South Saginaw Street  
Grand Blanc, MI 48440  
(810) 424-2640  
[www.twp.grand-blanc.mi.us](http://www.twp.grand-blanc.mi.us)

# Engineering Review



**GRAND BLANC TWP**  
PUBLIC WORKS

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# Engineering Review



## Introduction



Welcome to Grand Blanc Township! We are excited that you chose our community to build and grow your business in. In the following pages, you will find a guide through our design and engineering review process for all of your public and private infrastructure needs.

Our Goal is to help you navigate through the Public Works review process so that your experience here is a smooth and flawless as it can possibly be. In reviewing this guidebook, you will find needed forms and applications as well as a mapped-out path you will take through this process.

This document is not to be confused with an ordinance or rule book but a collection of information that you can turn to when you need an answer to a question or when you need to know who to contact to get answers to your questions.

## Important Contacts

Grand Blanc Township  
*Department of Public Works*

5371 South Saginaw  
Grand Blanc, MI 48480  
(810) 424-2640

Allen Cooley – (810) 424-2640  
Director of Public Services  
[allen.cooley@twp.grand-blanc.mi.us](mailto:allen.cooley@twp.grand-blanc.mi.us)

Gregory J. Boggs II – (810) 424-2614  
Assistant Director of Public Works &  
Construction Manager  
[boggs@twp.grand-blanc.mi.us](mailto:boggs@twp.grand-blanc.mi.us)

Genesee County Drain Commission  
4610 Beecher Rd  
Flint, MI 48532  
(810) 732-7870

Genesee County Road Commission  
211 West Oakley  
Flint, MI 48532  
(810) 767-4920

State Of Michigan EGLE  
525 West Allegan  
Lansing, MI 48913  
(517) 284-6651

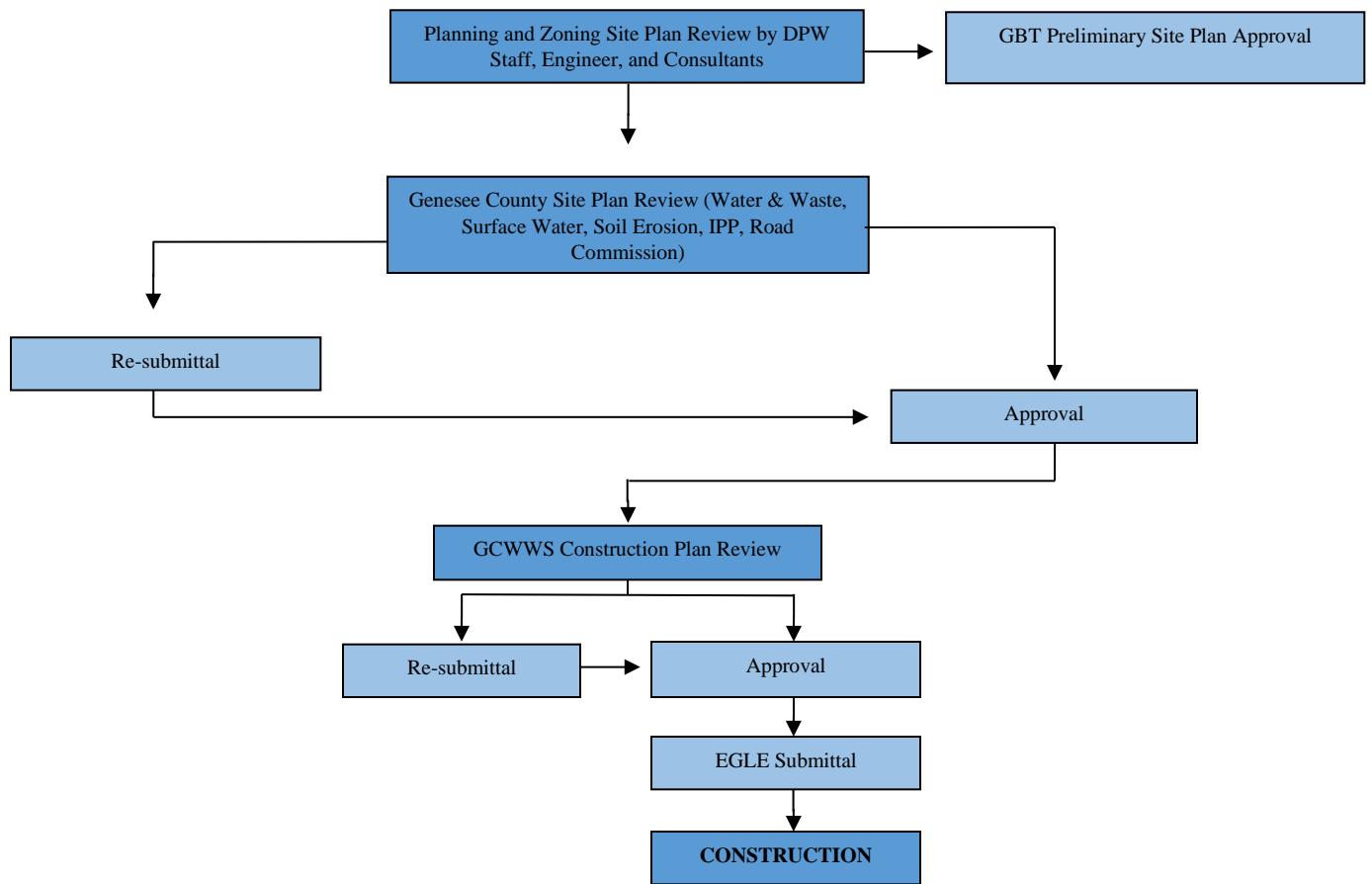
# Engineering Review



**GRAND BLANC TWP**  
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## Overview & Purpose

### What is the engineering review process?



The above diagram is designed to give you a very brief overview of the engineering plan review. The process all starts with the Township Planning and Zoning Department. Township site plan review and Genesee County site plan review can be done concurrently. Plans and permit documents are submitted to Genesee County through Grand Blanc Township. Each GCDC agency review can take between 2 – 6 weeks to process depending on how many projects are in each agency's queues. Once review comments are received from the GCDC reviewing Engineer, revisions will be required, or approval will be granted. Once Genesee County site plan approval is obtained, construction plans will be submitted to the Genesee County Drain Commission, Water and Waste Division for further review. This is the final step before State of Michigan (EGLE) review and permitting (if required).

# Engineering Review



## Other Information to Consider

The goal of the Grand Blanc Township Department of Public Works is to help you build the perfect submittal packages to submit to Genesee County in order to make the review process go as smoothly as possible. Consider the following items early on while building your project submittal:

### **Easements**

One item that can sometimes be the most difficult to obtain are easements. Dedicating them to the Township is not generally a problem but obtaining them from neighbors can sometimes be difficult. The earlier in the process that you can work on easements, the better off you will be. All easements for public water main shall be twelve feet or larger and easements for public sewer lines must twenty feet wide. All easements shall be dedicated to Grand Blanc Township and the Genesee County Drain Commissioner.

The Genesee County Drain Commission now requires that recorded easements for new, public water and sewer infrastructure projects be included with your DPW construction plan submission. Draft easements are to be submitted with the County site plan review process and must be finalized and recorded before construction plan approval will be granted.

### **Storm Water Maintenance Agreement**

All new developments that include storm water detention must be accompanied by a recorded (with the Register of Deeds) storm water maintenance agreement. This agreement basically pledges to the Township and the County that an onsite detention system exist and it will be maintained in perpetuity.

Historically, these ponds have been neglected by property owners and the Township has had to undertake a great deal of research and enforcement to get them back into working order. The storm water maintenance agreement gives the Township a trackable, and enforceable tool to ensure that these facilities will stay well kept.

### **Railroad Crossings**

If your site is located adjacent to or near a railroad, it is extremely important to research what site improvements you will need to undertake near railroad easements early on in your development process. Building infrastructure within a railroad easement can be expensive and takes time to navigate the rail road company's process. Performing due diligence as soon as possible will help keep your project on track.

### **Capital Fees**

Both Grand Blanc Township and Genesee County charge a onetime capital fee per water and sewer unit being built. The number of units is determined by the use of the facility and then multiplied by a factor determined by Genesee County Ordinance. The calculations determining how the factors are established are based on the 10 States Standards and AWWA standards.

Early on in your development process, Grand Blanc Township DPW staff can give you an estimate in capital fees due to each municipality. You will need to provide us with a proposed floorplan and as much information on the use of the building as possible. Please remember, Genesee County makes the final determination on the number of units assigned to each property and often vary slightly from our estimates. Never the less, our estimates prepare you for these cost well ahead of the time which payment is due.



## Water and Sanitary Sewer Capital Fee Calculations

**Date:**

**Address:**

**PID#:**

**Name:**

\*Units are added then rounded

| <b>CAPITAL FEE'S</b> | <b>Fee</b> | <b>Units</b> | <b>Total</b> | <b>Comments:</b> |
|----------------------|------------|--------------|--------------|------------------|
| Water Capital Fee    | \$2,600.00 |              |              |                  |
| Sewer Capital Fee    | \$2,750.00 |              |              |                  |

| ADDITIONAL FEE'S        | Size | Fee | Total | Comments: |
|-------------------------|------|-----|-------|-----------|
| Water Meter             |      |     |       |           |
| MXU                     | N/A  |     |       |           |
| Meter Pit               |      |     |       |           |
| Over size Tap (Over 1") |      |     |       |           |

**TOTAL DUE TO GBT:**

### Employee Signature

# Engineering Review



## Genesee County Site Plan Review

Genesee County agencies such as the Drain Commission (Water & Waste, Surface Water, and Soil Erosion) and the Road Commission require that all new commercial construction and commercial renovation projects go through a county site plan approval process. Unless noted below, all submittals to these county agencies must route through Grand Blanc Township.

### Genesee County Drain Commission – Water and Waste Services

- \$250.00 Site Plan Review Fee
- IPP Fee and Application (\$100-\$250 Fee Schedule Attached)
- Site Plan Checklist
- 2 Sets of Site Plans w/ Floor Plans
- 15 – 45 Day Review
- The Genesee County WWS site plan review process primarily focuses on reviewing the location and content of existing and proposed utilities on the property in question. The reviewing engineer looks to see that all the elements are labeled correctly and that the proper set of design standards were followed.

Helpful Links:

[Genesee County Drain Commission](#)

[GCDC WWS Permit Process](#)

[GCDC Permit Documents and Standards](#)

[GCDC WWS Fee Schedule](#)

### Genesee County Road Commission

- \$50.00 Review Fee
- 15 – 30 Day Review
- The Genesee County Road Commission will review these plans for an accuracy and issue their permit from these plans. After the initial submittal, they will either issue their permit or provide you with review comments. If comments are received, you will have to revise your plans and resubmit before obtaining your permit.
- GCRC Site Development Permit Requirements are attached to this guide.
- All Plans are submitted online through the GCRC Oxcart System.

Helpful Links:

[Genesee County Road Commission](#)

[GCRC Maps](#)

[GCRC Oxcart Permits](#)

# Engineering Review



## Genesee County Site Plan Review

- **Genesee County Drain Commission – Surface Water Management**
  - 1 Set of plans
  - 15 – 60 Day Review
  - The GCDC Surface Water Management Division will review your plans to ensure that proper surface water conveyance and storage is being utilized on your site. They will look at your onsite storage to make sure it is being utilized correctly and that all storm water from outlets are being diverted to the proper, public storm water drainage system. GCDC-SWM will either issue their permit from these plans or require a resubmittal based on their comments.

### Helpful Links

- [Genesee County Drain Commission - Surface Water](#)
- [GCDC Surface Water Design Standards](#)
- [GCDC Surface Water Drainage Maps](#)
- [State Of Michigan Drain Code](#)

- **GCDC Soil Erosion**

- SESC Review Fee (TBD During Review)
- SESC Application, Checklist, Fee Schedule and Maintenance Schedule
- 1 Set of SESC Plans
- The GCDC Soil Erosion Division reviews plans to see that all soil erosion protections are used during construction. They will look at grade changes, stock piling, soil erosion control, and dewatering among other issues. Sites are subject to random inspections.

### Helpful Links:

- [Genesee County Drain Commission - WWS](#)
- [GCDC - Permit Documents & Standards](#)

## ATTACHMENT 2

Log No.: \_\_\_\_\_

Date: \_\_\_\_\_

### GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE

### DIVISION OF WATER AND WASTE SERVICES

### PRELIMINARY PLAT/SITE PLAN SUBMITTAL CHECK LIST 8<sup>TH</sup> EDITION

PROJECT NAME: \_\_\_\_\_

PARCEL AND/OR PARCEL #S: \_\_\_\_\_

---

#### THE FOLLOWING INFORMATION SHALL BE INCLUDED WITH, OR APPEAR ON ALL PLANS SUBMITTED TO THIS OFFICE:

*Please note that if any of the following information is not applicable to the development being submitted, so state with reason.*

- \$250 site plan review fee. Checks shall be payable to "The Genesee County Drain Commissioner".
- A copy of this Site Plan/Preliminary Plat Checklist, signed and dated.
- Transmittal Sheet.
- Letter signed and sealed from a professional engineer stating there is adequate sanitary sewer capacity for this development to the interceptor which shall include all calculations and flow maps. (Wholesale communities only)
- Authorization to Review letter from the local municipality
- Tax map of area with appropriate property highlighted. Tax map shall also show the surrounding area, including both sides of the road and can be obtained from the Genesee County Department of Equalization.
- Sheet size of 24" x 36" (If a different sheet size is proposed, this office must be contacted prior to submitting plans.)
- Legend
- Minimum scale shall be 1" = 50'
- GCDC-WWS 10 standard notes
- GCDC-WWS demolition notes

- GCDC-WWS standard notes and details sheets
- All existing (water, sanitary sewer, and storm water) utilities shown on the plans and labeled with their size (rims, inverts), elevation and material. Please also label any utilities in other areas where conflicts may arise.
- Recorded easements. Minimum width for easements shall be Sanitary Sewer = 20' and Watermain = 15'. The utility shall be entered in the easement.
- Architectural floor plan and plumbing plan sheets have been provided for calculation of all applicable tap-in and/or CCIF fees.
- Plan view of the proposed development or plat, including existing and future phases.
- Roadways, ROW size, lot numbers, future building numbers, parcel ID numbers, street address for site, street address for surrounding buildings, and lot configuration
- Plans have been submitted to GCDC-SWM (Surface Water Management) for storm and/or Surface Water review (if applicable).

Does this project cross municipal boundaries? YES  NO

If YES, are Franchise agreements in place that allow utility connection?

YES  NO

#### COVER SHEET

**The cover sheet shall, at a minimum, contained the following basic information:**

- Project name, address, scale, and north arrow
- Location map with layout sketch of project
- County, municipality, and section number
- Plans signed and sealed by a professional engineer, surveyor, or an architect.
- Developer's name, address, and phone number
- Sheet Index
- Legal description
- Plan distribution list including contact names and dates submitted to utility
- Total disturbed area and a statement clarifying whether an NPDES permit is or it not required
- 811 "Call Before You Dig" Alert
- Contractor Alert Statement (**in bold**). See Section C Item K of the site plan standards.

A statement clarifying whether or not existing utilities were exposed for verification of location and elevations.

## **APPLICATIONS**

**The following applications shall be submitted with the site plan:**

IPP permit application for all non-residential buildings (includes churches, schools, etc.)  
Applications can be downloaded from [www.gcdcwss.com](http://www.gcdcwss.com)

SESC permit application, plans, and appropriate fees

**I hereby certify that the abovementioned items have been provided with the submitted plans.**

**Name of Party Preparing Checklist:** \_\_\_\_\_

**E-mail of Party Preparing Checklist:** \_\_\_\_\_

**Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### **OFFICE USE ONLY**

**This application review packet will be reviewed for completeness within 5 business days of being received. If the application review packet is found to be incomplete it will be returned in its entirety to the entity that made the submission.**

**Dated Received:** \_\_\_\_\_

**Is this application complete?** YES  NO

**Dated Verified:** \_\_\_\_\_

**Project Engineer Detailed Review:**

**Sign:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Note: It is necessary to submit only one set of plans for review and approval of sanitary sewer and watermain and only one set of plans for SESC review and permitting.**

**REVIEWER COMMENTS:**

# GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE

-DIVISION OF-

## WATER & WASTE SERVICES



G-4610 BEECHER ROAD · FLINT, MICHIGAN 48532-2617

PHONE (810) 732-7870 · FAX (810) 732-9773

JEFFREY WRIGHT  
COMMISSIONER

### APPLICATION FOR NON-DOMESTIC DISCHARGE PERMIT

#### I. GENERAL INFORMATION

Name (Owner/Manager/Contact Person)

Phone Number

Street (Mailing address for correspondence)

City

State

Zip Code

(Business Name)

Street (Legal address, Tax ID, or parcel number of property discharging to sewer system)

City

State

Zip Code

Township

County

Phone

Fax

E-Mail

Name and Title of Person Completing Permit

Phone Number

#### AUTHORIZED REPRESENTATIVE STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Representative Signature  
(Responsible for the discharge)

Authorized Representative Name (Please Print)

Authorized Representative Title (Please Print)

Date

### PROPERTY OWNER STATEMENT

By my signature below, I certify, acknowledge, and agree as follows:

I am the legal owner (or the duly authorized representative of the legal owner) (the "Property Owner") of the above-described property (the "Property").

This application for a permit to authorize the discharge of wastewater to the public sewer from the Property is submitted with my permission, authority, and consent.

I am aware and understand that the discharge of wastewater from the Property to the public sewer is governed by, and subject to, local, state, and federal laws and regulations; that these laws and regulations impose certain financial and legal requirements, responsibilities, and liabilities on the Property and on the Property Owner; and that these requirements, responsibilities, and liabilities, include, but are not limited to, the following: Effective immediately upon the provision of wastewater treatment service to the Property, the Genesee County Drain Commissioner's Office, Division of Water and Waste Services, shall have a lien upon the Property, as security for the collection of wastewater treatment system rates and/or charges, which lien shall be enforceable as provided by law.

---

Property Owner Signature

---

Property Owner Name (Please Print)

---

Property Owner Title (Please Print)

---

Date

---

---

A. Nature of the business: \_\_\_\_\_

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B. Is this new construction? \_\_\_\_\_

C. Is this for a remodeling or addition? \_\_\_\_\_

D. Is this for a change of use? \_\_\_\_\_

E. Is this a multi-tenant space? \_\_\_\_\_

a. If yes how many tenant spaces? \_\_\_\_\_

\*Note that multi-tenant spaces are required to install two separate sewer lines in the building. One line will be for sanitary sewage and the other for process waters. The process line will be brought outside each tenant space. Each tenant space is required to submit an individual IPP application.

## F. Business Activity

1. If your facility employs or will be employing processes in any of the industrial categories or business activities listed below (regardless of whether they generate wastewater, waste sludge, or hazardous wastes), place a check beside the category of business activity (check all that apply).

### Industrial Categories

|                          |  |                          |  |
|--------------------------|--|--------------------------|--|
| <input type="checkbox"/> | Aluminum Forming                                     | <input type="checkbox"/> | Leather Tanning and Finishing                    |
| <input type="checkbox"/> | Metal Finishing                                      | <input type="checkbox"/> | Metal Molding and Casting                        |
| <input type="checkbox"/> | Nonferrous Metals Forming<br>and Metal Powders       | <input type="checkbox"/> | Nonferrous Metals Manufacturing                  |
| <input type="checkbox"/> | Organic Chemicals, Plastics,<br>and Synthetic Fibers | <input type="checkbox"/> | Paint Formulating                                |
| <input type="checkbox"/> | Paving and Roofing Materials<br>(Tars and Asphalt)   | <input type="checkbox"/> | Pesticides Chemicals                             |
| <input type="checkbox"/> | Petroleum Refining                                   | <input type="checkbox"/> | Pharmaceutical Manufacturing                     |
| <input type="checkbox"/> | Rubber Manufacturing                                 | <input type="checkbox"/> | Porcelain Enameling                              |
| <input type="checkbox"/> | Steam Electric Power Generating                      | <input type="checkbox"/> | Pulp, Paper, and Paperboard Manufacturing        |
| <input type="checkbox"/> | Battery Manufacturing                                | <input type="checkbox"/> | Soap and Detergent Manufacturing                 |
| <input type="checkbox"/> | Carbon Black Manufacturing                           | <input type="checkbox"/> | Timber Products Processing                       |
| <input type="checkbox"/> | Copper Forming                                       | <input type="checkbox"/> | Builder's Paper and Board Mills                  |
| <input type="checkbox"/> | Electroplating                                       | <input type="checkbox"/> | Coil Coating                                     |
| <input type="checkbox"/> | Glass Manufacturing                                  | <input type="checkbox"/> | Electric and Electronic Components Manufacturing |
| <input type="checkbox"/> | Grain Mills  | <input type="checkbox"/> | Feedlots   |
| <input type="checkbox"/> | Inorganic Chemicals Manufacturing                    | <input type="checkbox"/> | Fertilizer Manufacturing                         |
| <input type="checkbox"/> |  | <input type="checkbox"/> | Ink Formulating                                  |
| <input type="checkbox"/> |  | <input type="checkbox"/> | Iron and Steel Manufacturing                     |

A facility with processes inclusive in these business areas may be covered by Environmental Protection Agency's (EPA) categorical pretreatment standards. These facilities are termed "categorical users".

2. Is your business a categorical user? \_\_\_\_\_

If your business has process water that is greater than 25,000 gallons per day or contributes a process wastewater more than 5% of wastewater treatment plant's average dry weather hydraulic or organic capacity as defined in 40 CFR part 403.3(t) it is considered a Significant Industrial User.

3. Is your business a Significant Industrial User? \_\_\_\_\_

4. Appropriate Standard Industrial Code(s) (SIC): \_\_\_\_\_

## G. What types of waste(s) do you discharge to the sanitary sewer?

1. \_\_\_\_\_ Domestic Waste
2. \_\_\_\_\_ Cooling Water
3. \_\_\_\_\_ Scrubber Waters
4. \_\_\_\_\_ Photo processing / X-ray developing waters
5. \_\_\_\_\_ Grease Trap/ Grease Interceptor
6. \_\_\_\_\_ Process Water
7. \_\_\_\_\_ Arsenic discharge, backwash water from drinking water system
8. \_\_\_\_\_ Other: \_\_\_\_\_

\*\*All non-domestic users shall have a sampling manhole outside that provides access to the discharge from their facility.

\*\*\*All Users with a discharge other than domestic sanitary waste (process waste water) shall have a sampling manhole outside that provides access to the waste stream without sanitary waste contribution.

H. Do you use, store, or discharge any acids, bases, or materials listed in Table I (attached)?  
1.  Yes      2.  No

I. Does the operation of your processes or wastewater treatment facility result in a residual residue or sludge type waste?  
1.  Yes      2.  No

J. Schedule of operations:  
1. \_\_\_\_\_ Number Of Employees  
2. \_\_\_\_\_ Hrs/day \_\_\_\_\_ days/wk \_\_\_\_\_ shifts/day \_\_\_\_\_ mos/yr \_\_\_\_\_  
3. Size of the facility: \_\_\_\_\_

**K. If your answer to Section I. Question G. was only 1 Domestic waste, sign and return this portion of the publication.**

L. If your answer to Section I. Question G. was other than 1, complete Sections II through VII of this form, sign, and return it to:

Lisa Milton  
Genesee County Drain Commissioner's Office  
G-4610 Beecher Road  
Flint, MI 48532

**Lisa Milton can be contacted by phone at (810) 232-7662 extension 2233, or by email at [lmilton@gcdcwss.com](mailto:lmilton@gcdcwss.com).**

## **II. PROCESS AND PRODUCTS**

A. Provide a complete list of products used or stored on the site, which appear on Table I (Consolidated Critical Materials List and Priority Pollutants List). If you use the trade name of proprietary chemicals that do not list contents on the package, indicate the trade names and manufacturer(s) at this time. You must write the manufacturer to request an OSHA Form 20 for each such substance, and provide POTW with the necessary information when available; i.e., use numbers, NOT chemical name, Table I:

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---

B. Describe each process (**including flow diagrams and plumbing schematics**): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

C. Is any of the enclosed information considered to be confidential?

1.  Yes      2.  No

If yes, explain what and why. (All requests for confidentiality will be processed according to 40 CFR, Part 2): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

D. Water Supply: 1.  Municipal    2.  Well    3.  Other (Explain): \_\_\_\_\_

E. Consumption Used: 1. \_\_\_\_\_ (ft<sup>3</sup>, gals per time unit)  
2. \_\_\_\_\_ (ft<sup>3</sup>, gals per time unit)

Consumption Total: \_\_\_\_\_

F. Does your facility have a Spill Prevention Control and Counter Measures Program (SPCC) (40 CFR 112) or Pollution Incident Prevention Plan (PIPP) (MDNR Rule 5)?

1. \_\_\_\_\_ Yes 2. \_\_\_\_\_ No

### **III. PROCESS WASTEWATER**

A. Identify outfall (circle number): (Describe -- include line drawing(s) of process flows and all floor drain discharging to each outfall):

1. Surface waters. Name of receiving waters: \_\_\_\_\_
2. Septic tank-tile field.
3. Surface of ground.
4. Municipal sanitary sewer.
5. Storm sewer.
6. Other \_\_\_\_\_

B. Volumes of discharge: 1. Average Daily Flow: \_\_\_\_\_ gallons per day.

2. Maximum Daily Flow: \_\_\_\_\_ gallons per day.

3. Flow is: \_\_\_\_\_ Measured \_\_\_\_\_ Estimated

C. Type of wastewater Discharged to the POTW:

|                           | Average Flow Rate | Maximum Flow Rate |     |
|---------------------------|-------------------|-------------------|-----|
| Process                   | _____             | _____             | GPD |
| Domestic Waste            | _____             | _____             | GPD |
| Non-Contact Cooling Water | _____             | _____             | GPD |
| Boiler Blow Down          | _____             | _____             | GPD |
| Others: (List)            | _____             | _____             | GPD |
|                           | _____             | _____             | GPD |
| Total Flow Rate:          | _____             | _____             | GPD |

\*GPD is gallons per day.

D. Characteristics of discharge:

All current nondomestic users are required to submit monitoring data on all pollutants that are regulated specific to each process. Use table I provided at the end of this application as a guide. Attach all laboratory data and submit with this application.

E. Are drains (roof, parking lot, etc.) discharging into the sanitary sewer?

1. \_\_\_\_\_ Yes 2. \_\_\_\_\_ No If yes, estimate area drained: \_\_\_\_\_ sq. ft.

**IV. DISPOSAL PRACTICES** (add extra pages, if necessary):

A. How do you dispose of spent chemicals? \_\_\_\_\_  
1. Volume disposed of: \_\_\_\_\_

B. How do you dispose of spoilage? \_\_\_\_\_  
1. Volume disposed of: \_\_\_\_\_

C. How do you dispose of precipitates and/or sludges? \_\_\_\_\_  
1. Volume disposed of: \_\_\_\_\_

D. Name of waste hauler: \_\_\_\_\_  
License No. \_\_\_\_\_

E. Do you have pretreatment for your wastes: 1.  Yes 2.  No  
If Box 1 is checked: Type: \_\_\_\_\_  
Size: \_\_\_\_\_  
Frequency of Operation: \_\_\_\_\_  
If Box 2 is checked, where and how are the wastes disposed of:  
To sanitary sewer \_\_\_\_\_ To storm sewer \_\_\_\_\_ Industrial waste hauler \_\_\_\_\_  
Other \_\_\_\_\_ If other explain: \_\_\_\_\_

F. Do you have any air emission control equipment, which would discharge into the sewer system?  
1.  Yes 2.  No

G. Are any of the materials listed in Table I discharged with the wastes?  
1.  Yes 2.  No List, by number, from Table I: \_\_\_\_\_

  
**V. SPILL PREVENTION** (add extra pages if necessary):  

A. List bulk materials stored on site (liquid, solids) including cleaning agents:  
Material: \_\_\_\_\_ Volume: \_\_\_\_\_ Location In Plant: \_\_\_\_\_  
Material: \_\_\_\_\_ Volume: \_\_\_\_\_ Location In Plant: \_\_\_\_\_

B. Is separate secondary containment provided for bulk materials?  
1.  Yes 2.  No

C. Is separate secondary containment provided for those processes which contain chemicals listed in Table I?  
1.  Yes 2.  No

D. Has separate storage been provided for those chemicals which cause hazardous reactions; i.e., acids with cyanide, acids with bases?  
1.  Yes 2.  No

## VI. SAMPLING AND ANALYSIS

A. Are sampling points available for each?

|    |              |                          |     |                          |    |
|----|--------------|--------------------------|-----|--------------------------|----|
| 1. | Process Line | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |
| 2. | Outfall      | <input type="checkbox"/> | Yes | <input type="checkbox"/> | No |

B. Do you sample your process discharge(s)?

|    |                          |     |    |                          |    |
|----|--------------------------|-----|----|--------------------------|----|
| 1. | <input type="checkbox"/> | Yes | 2. | <input type="checkbox"/> | No |
|----|--------------------------|-----|----|--------------------------|----|

C. Type of sample:

1.  Grab    2.  Composite (time based)    3.  Composite (flow proportioned)

D. Is a sampling vault and/or manhole provided?

|    |                          |     |    |                          |    |
|----|--------------------------|-----|----|--------------------------|----|
| 1. | <input type="checkbox"/> | Yes | 2. | <input type="checkbox"/> | No |
|----|--------------------------|-----|----|--------------------------|----|

E. Sampling schedule (i.e., 24-hour, during work hours, etc.): \_\_\_\_\_

F. What laboratory analysis (wastewater/solids) can be run on-site? \_\_\_\_\_

## VII. MISCELLANEOUS

A. Describe any safety precautions to be observed by those visiting your site:

\_\_\_\_\_

B. Contact Person: Name \_\_\_\_\_

Title \_\_\_\_\_ Phone \_\_\_\_\_

## GLOSSARY

Except as otherwise expressly provided by this Glossary, the words and terms used in this application shall be as defined in the Sewer Use Ordinance available online at GCDCWWs.com.

**“Composite Sample”** means a series of individual samples collected on a flow or time proportional basis, taken at regular intervals over a specific time period, and combined into a single sample (formed either by continuous sampling or by mixing discrete samples) representative of the average stream during the sampling period. 24-Hour composite sampling is required for all SIUs. 24-hour composite samples must be obtained through flow-proportional composite sampling techniques, unless the Permittee demonstrates to the POTW Manager that time-proportional composite sampling or grab sampling will be representative of the Permittee’s discharge. For categorical sampling, a composite sample shall consist of at least four (4) individual samples taken within a 24-hour period.

**“Secondary Containment”** means if a tank or vessel storing a chemical ruptures, the secondary containment structure will prevent the loss of the chemical to the environment. Secondary containment should be provided with a volume of 150% of the storage vessel. All potentially polluting materials such as oil, acid, cyanide, etc., should be stored within a secondary containment structure, usually a concrete wall or earthen dike.

**“Spent Chemicals”** are chemicals that have exhausted their usefulness.

**TABLE I: The following is a list of the U.S. Priority Pollutants consolidated with the current Critical Materials Register, compiled by the Michigan Department of Natural Resources.**

**ORGANICS**

|  |   |
|--|---|
| 1. acids                                     | 47. 2,4-diaminotoluene                                |
| 2. acenaphthene                              | 48. dibenz(a,h)anthracene                             |
| 3. acetone cyanohydrin                       | 49. tris(dibromopropyl) phosphate                     |
| 4. 2-acetylaminofluorene                     | 50. di-n-butyl phthalate                              |
| 5. acrolein                                  | 51. 3,3-dichlorobenzidine                             |
| 6. acrylic acid                              | 52. 3,3-dichlorobenzidine salts                       |
| 7. acrylonitrile                             | 53. 1,2-dichloroethane                                |
| 8. allyl chloride                            | 54. dichloroethylenes                                 |
| 9. 2-aminoanthraquinone                      | a. 1,1-dichloroethylene                               |
| 10. aminoazobenzene                          | b. 1,2-trans-dichloroethylene                         |
| 11. o-aminoazotoluene                        | 55. dichloropropane & dichloropropene                 |
| 12. 4-aminobiphenyl                          | a. 1,3-dichloropropylene; (1,3-dichloropropene)       |
| 13. 3-amino-9-ethylcarbazole                 | b. 1,2-dichloropropane                                |
| 14. 1-amino-2-methylanthraquin               | 56. 1,2:3,4-diepoxybutane                             |
| 15. aminotriazole (amitrole)                 | 57. Diethyl sulfate                                   |
| 16. aniline                                  | 58. 4-dimethylaminoazobenzene                         |
| 17. aniline hydrochloride                    | 59. Dimethylhydrazines                                |
| 18. o-anisidine                              | 60. 2,4-dimethylphenol                                |
| 19. o-anisidine hydrochloride                | 61. 4,6-dinitro-o-cresol                              |
| 20. benz(a)anthracene                        | 62. 2,4-dinitrophenol                                 |
| 21. benzene                                  | 63. 2,4-dinitrotoluene                                |
| 22. benzidine                                | 64. dinitrotoluene                                    |
| 23. benzidine salts                          | a. 2,6-dinitrotoluene                                 |
| 24. benzo(a)pyrene                           | 65. di-n-octyl phthalate                              |
| 25. brucine                                  | 66. 1,4-dioxane                                       |
| 26. carbon tetrachloride                     | 67. 2,3-epoxy-1-propanal                              |
| 27. chlorinated benzenes                     | 68. ethylbenzene                                      |
| a. chlorobenzene                             | 69. ethylene dibromide                                |
| b. 1,2,4-trichlorobenzene                    | 70. ethyleneimine                                     |
| c. 1,2-dichlorobenzene                       | 71. ethylene oxide                                    |
| d. 1,3-dichlorobenzene                       | 72. ethylene thiourea                                 |
| e. 1,4-dichlorobenzene                       | 73. bis(2-ethylhexyl) phthalate                       |
| 28. chlorinated dibenzofurans                | 74. ethylmethanesulfonate                             |
| 29. chlorinated dioxins                      | 75. fluoranthene                                      |
| 30. chlorinated ethanes                      | 76. 2-(2-formylhydrazino)-4-(5-nitro-2-fury) thiazole |
| a. 1,1,1-trichloroethane                     | 77. Haloethers  |
| b. 1,1-dichloroethane                        | a. 4-chlorophenyl phenyl ether                        |
| c. chloroethane                              | b. 4-bromophenyl phenyl ether                         |
| d. 1,1,2,2-tetrachloroethane                 | c. bis(2-chloroisopropyl) ether                       |
| 31. chlorinated naphthalene                  | d. bis(2-chloroethoxy) methane                        |
| a. 2-chloronaphthalene                       | 78. Halomethanes                                      |
| 32. chlorinated phenols                      | a. methylene chloride; (dichloromethane)              |
| a. 2-chlorophenol                            | b. methyl chloride; (chloromethane)                   |
| b. . parachlorometa-cresol                   | c. methyl bromide; (bromomethane)                     |
| c. 2,4-dichlorophenol                        | d. bromoform; (tribromomethane)                       |
| 33. 1-chloro-2,3-epoxypropane                | e. dichlorobromomethane                               |
| 34. chloroalkyl ethers                       | f. trichlorofluoromethane                             |
| a. 2-chloroethyl vinyl ether (mixed)         | g. dichlorodifluoromethane                            |
| 35. bis (2-chloroethyl) ether                | h. chlorodibromomethane                               |
| 36. Chloroform                               | 79. hexachlorobenzene (HCB)                           |
| 37. bis (2-chloromethyl) ether               | 80. hexachlorobutadiene                               |
| 38. 3-(chloromethyl) pyridine hydrochloride  | 81. hexachlorocyclohexane                             |
| 39. 1-(4-chlorophenyl)-3,3-dimethyl triazene | 82. hexachlorocyclopentadiene                         |
| 40. 4-chloro-m-phenylenediamine              | 83. hexachloroethane                                  |
| 41. 4-chloro-o-phenylenediamine              | 84. hydrazobenzene                                    |
| 42. Chloroprene                              | 85. hydroquinone                                      |
| 43. 5-chloro-o-toluidine                     | 86. N-(2-hydroxyethyl) ethyleneimine                  |
| 44. p-cresidine                              | 87. isophorone  |
| 45. 2,4-diaminoanisole sulfate               | 88. lactonitrile                                      |
| 46. 4,4-diaminodiphenyl ether                |   |

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| 89.  | malachite green                                     | 130. | B-propolactone                             |
| 90.  | methylenebis(2-chloroaniline)                       | 131. | 5-propyl-1,3-benzodioxole                  |
| 91.  | 4,4-methylenabis(2-methylaniline)                   | 132. | propyleneimine                             |
| 92.  | 4,4-methylenabis(N,N-dimethylaniline)               | 133. | semicarbazide                              |
| 93.  | 1,2(methylenedioxy)-4-propenyl benzene              | 134. | styrene                                    |
| 94.  | methyl hydrazine                                    | 135. | tetrachloroethylene<br>(perchloroethylene) |
| 95.  | 1-methylnaphthalene                                 | 136. | thioacetamide                              |
| 96.  | 2-methyl-1-nitroanthraquinone                       | 137. | 4,4-thiodianiline                          |
| 97.  | mustard gas   | 138. | thiourea                                   |
| 98.  | 1,5-naphthalenediamine                              | 139. | toluene                                    |
| 99.  | 1-naphthylamine                                     | 140. | o-toluidine                                |
| 100. | 2-naphthylamine                                     | 141. | o-toluidine hydrochloride                  |
| 101. | 5-nitroacenaphthene                                 | 142. | triaryl phosphate esters                   |
| 102. | 5-nitro-o-anisidine                                 | 143. | 1,1,2-trichloroethane                      |
| 103. | nitrobenzene  | 144. | trichloroethylene                          |
| 104. | 4-nitrobiphenyl                                     | 145. | trichlorophenols                           |
| 105. | nitrogen mustard                                    | 146. | 2,4,5-trimethylaniline                     |
| 106. | 2-nitrophenol                                       | 147. | trimethylphosphate                         |
| 107. | 4-nitrophenol                                       | 148. | vinylchloride                              |
| 108. | Nitrosamines  | 149. | xylene                                     |
|      | a. N-nitrosodiphenylamine                           |      |  |
|      | b. N-nitrosodi-n-propylamine                        |      |  |
| 109. | N-nitroso-n-butyl-N-(4-hydroxybutyl)amine           | A.   | <b><u>INORGANICS</u></b>                   |
| 110. | N-nitrosodiethylamine                               | 150. | Antimony                                   |
| 111. | N-nitrosodimethylamine                              | 151. | Arsenic                                    |
| 112. | p-nitrosodiphenylamine                              | 152. | Beryllium                                  |
| 113. | N-nitroso-N-ethylurea                               | 153. | Cadmium                                    |
| 114. | N-nitroso-N-methylurea                              | 154. | Chromium                                   |
| 115. | N-nitroso-N-methylurethane                          | 155. | Cobalt                                     |
| 116. | N-nitrosomethylvinylamine                           | 156. | Copper                                     |
| 117. | N-nitrosomorpholine                                 | 157. | Cyanides                                   |
| 118. | N-nitroso-N-phenylhydroxyl-amine, ammonium salt     | 158. | Hypochlorite                               |
| 119. | N-nitrososarcosine                                  | 159. | Lead                                       |
| 120. | pentachloronitrobenzene                             | 160. | Lithium                                    |
| 121. | pentachlorophenol                                   | 161. | Mercury                                    |
| 122. | peroxyacetic acid                                   | 162. | Nickel                                     |
| 123. | phenol  | 163. | Selenium                                   |
| 124. | Phthalate esters                                    | 164. | Silver                                     |
|      | a. butyl benzyl phthalate                           | 165. | Thallium                                   |
|      | b. diethyl phthalate                                | 166. | Zinc                                       |
| 125. | piperonyl sulfoxide                                 | B.   | <b><u>INORGANICS</u></b>                   |
| 126. | polybrominated biphenyls (PBB)                      | 167. | Acids                                      |
| 127. | polychlorinated biphenyls (PCB)                     | 168. | Chloramines                                |
| 128. | Polynuclear aromatic hydrocarbons                   | 169. | Chlorine                                   |
|      | a. 3,4-benzofluoranthene                            | 170. | Hydrazine                                  |
|      | b. benzo(k) fluoranthene; (11,12-benzofluoranthene) | 171. | Hydrogen sulfide                           |
|      | c. chrysene   | C.   | <b><u>INORGANICS</u></b>                   |
|      | d. acenaphthylene                                   | 172. | Asbestos (fibrous)                         |
|      | e. anthracene                                       | D.   | <b><u>PESTICIDES</u></b>                   |
|      | f. benzo(ghi) perylene; 1,12-benzoperylene          | 173. | Aldicarb                                   |
|      | g. fluorene   | 174. | Aldrin                                     |
|      | h. phenanthrene                                     | 175. | 4-aminopyridine                            |
|      | i. ideno(1,2,3-cd) pyrene; (2,3-0-phenylenepyrene)  | 176. | anilazine                                  |
|      | j. pyrene   | 177. | antimycin A                                |
|      | k. naphthalene                                      | 178. | azinphos-ethyl                             |
| 129. | 1,3-propane sultone                                 | 179. | azinphos-methyl                            |
|      |   | 180. | barban                                     |
|      |   | 181. | bendiocarb                                 |
|      |   | 182. | benomyl                                    |

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| 183. | bromoxynil   | 238.      | nitrofen                                  |
| 184. | 2(p-tert-butylphenoxy)-isopropyl-2-chloroethyl sulfite | 239.      | oxydemeton-methyl                         |
| 185. | captafol   | 240.      | paraquat                                  |
| 186. | captan   | 241.      | parathion                                 |
| 187. | carbaryl   | 242.      | phorate                                   |
| 188. | carbophenothion  | 243.      | phosazetim                                |
| 189. | chlorodane   | 244.      | phosmet                                   |
| 190. | chlordecone  | 245.      | phosphamidon                              |
| 191. | chlorfenvinphos  | 246.      | rotenone                                  |
| 192. | chlorobenzilate  | 247.      | silvex, propylene glycolbutyl ether ester |
| 193. | chlorpyrifos   | 248.      | sodium fluoroacetate                      |
| 194. | clonitralid  | 249.      | strychnine                                |
| 195. | coumaphos  | 250.      | sulfallate                                |
| 196. | crotoxyphos  | 251.      | sulfotep                                  |
| 197. | cycloheximide  | 252.      | TDE                                       |
| 198. | DDT  | 253.      | TEPP                                      |
| 199. | demeton  | 254.      | terbufos                                  |
| 200. | diallate   | 255.      | tetrachlorvinphos                         |
| 201. | diazinon   | 256.      | thiram                                    |
| 202. | dibromochloropropane                                   | 257.      | toxaphene                                 |
| 203. | dichlone   | 258.      | trichlorfon                               |
| 204. | dichlorvos   | 259.      | trichlorophenoxyacetic acid (2,4,5-T)     |
| 205. | dichrotophos   | 260.      | trifluralin                               |
| 206. | dieldrin   | 261.      | ziram                                     |
| 207. | dimethoate   |           |   |
| 208. | dinocap  | <b>E.</b> | <b><u>ADDITIONAL POLLUTANTS</u></b>       |
| 209. | dinoseb  | 262.      | Acidity                                   |
| 210. | dioxathion   | 263.      | Alkalinity                                |
| 211. | disulfoton   | 264.      | Bacteria                                  |
| 212. | endosulfan   | 265.      | BOD5                                      |
| 213. | endrin   | 266.      | COD                                       |
| 214. | EPN  | 267.      | Chloride                                  |
| 215. | ethion   | 268.      | Fluoride                                  |
| 216. | fensulfothion  | 269.      | Hardness                                  |
| 217. | fenthion   | 270.      | Magnesium                                 |
| 218. | fluchloralin   | 271.      | Ammonia Nitrate                           |
| 219. | heptachlor   | 272.      | Oil and Grease                            |
| 220. | heptachlor epoxide                                     | 273.      | TSS                                       |
| 221. | Isomes of hexachlorocyclohexane                        | 274.      | TOC                                       |
| a.   | a-BHC-Alpha  | 275.      | Kjeldahl Nitrogen                         |
| b.   | b-BHC-Beta   | 276.      | Nitrate N                                 |
| c.   | g-BHC-Delta  | 277.      | Nitrite N                                 |
| 222. | leptophos  | 278.      | Organic N                                 |
| 223. | malathion  | 279.      | Orthophosphate P                          |
| 224. | a. 4,4'-DDE;(p,p'-DDE)                                 | 280.      | Phosphorus                                |
|      | b. 4,4'-DDD;(p,p'-TDE)                                 | 281.      | Sodium                                    |
| 225. | metabolites of endosulfan                              | 282.      | Specific Conductivity                     |
| a.   | ensosulfan sulfate                                     | 283.      | Sulfate (SO4)                             |
| 226. | metabolites of endrine                                 | 284.      | Sulfite (SO3)                             |
| a.   | endrine aldehyde                                       | 285.      | Sulfide (S)                               |
| 227. | metabolites of heptachlor                              |           |   |
| 228. | methomyl   |           |   |
| 229. | methoxychlor   |           |   |
| 230. | methyl mercaptan                                       |           |   |
| 231. | methyl parathion                                       |           |   |
| 232. | mevinphos  |           |   |
| 233. | mexacarbate  |           |   |
| 234. | mirex  |           |   |
| 235. | monocrotophos  |           |   |
| 236. | naled  |           |   |
| 237. | nicotine   |           |   |

Note: This is an edited list.

| <u>CODE</u>          | <u>TITLE</u>                      |      |   |
|----------------------|-----------------------------------|------|---|
| <b>AGRICULTURE</b>   |                                   |      |   |
| 0100                 | Agricultural Production- Crops    | 2200 | Textile Mill Products                     |
| 0200                 | Agricultural Production Livestock | 2300 | Apparel & Other Textile Products          |
| 0211                 | Beef Cattle Feedlots              | 2400 | Lumber & Wood Products                    |
| 0241                 | Dairy Farms                       | 2420 | Sawmills & Planing Mills                  |
| 0700                 | Agricultural Services             | 2430 | Millwork, Plywood, & Structural           |
|                      |                                   | 2440 | Members                                   |
|                      |                                   | 2448 | Wood Containers                           |
|                      |                                   | 2450 | Wood Pallets & Skids                      |
|                      |                                   | 2490 | Wood Buildings & Mobile homes             |
|                      |                                   | 2491 | Misc Wood Products                        |
|                      |                                   | 2492 | Wood Preserving                           |
| <b>MINING</b>        |                                   |      |   |
| 1000                 | Metal Mining                      | 2492 | Particleboard                             |
| 1011                 | Iron Ores                         | 2500 | Furniture & Fixtures                      |
| 1021                 | Copper Ores                       |      |   |
| 1081                 | Metal Mining Services             | 2600 | <b>PAPER &amp; ALLIED PRODUCTS</b>        |
| 1300                 | Oil & Gas Extraction              | 2611 | Pulp Mills                                |
| 1380                 | Oil & Gas Field Services          | 2621 | Paper Mills (Except Building Paper)       |
| 1400                 | Nonmetallic Minerals              | 2631 | Paperboard Mills                          |
| 1422                 | Crushed & Broken Limestone        | 2640 | Misc Converted Paper Products             |
| 1440                 | Sand & Gravel                     | 2650 | Paperboard Containers & Boxes             |
| 1450                 | Clay & Refractory Minerals        | 2661 | Building Paper & Board Mills              |
| 1470                 | Chemical & Fertilizer Minerals    |      |   |
| 1492                 | Gypsum                            | 2700 |   |
| <b>CONSTRUCTION</b>  |                                   |      |   |
| 1500                 | General Building Contractors      | 2710 | <b>PRINTING &amp; PUBLISHING</b>          |
| 1600                 | Heavy Construction Contractors    | 2750 | Newspapers                                |
|                      |                                   | 2790 | Commercial Printing                       |
| <b>MANUFACTURING</b> |                                   |      |   |
| 2000                 | Food & Kindred Products           | 2800 | Printing Trade Service                    |
| 2010                 | Meat Products                     | 2810 | <b>CHEMICALS &amp; ALLIED PRODUCTS</b>    |
| 2011                 | Meat Packing Plants &             | 2820 | Industrial Inorganic Chemicals            |
|                      | Slaughter Houses                  | 2830 | Plastic Materials & Synthetics            |
| 2020                 | Dairy Products                    | 2840 | Drugs                                     |
| 2030                 | Canned Fruits & Vegetables        | 2850 | Soap, Cleaners, & Toilet Goods            |
| 2033                 | Canned Fruits & Vegetables        | 2860 | Paints & Allied Products                  |
| 2035                 | Pickles, Sauces, Salad Dressings  | 2870 | Industrial Organic Chemicals              |
| 2037                 | Frozen Fruits & Vegetables        | 2890 | Agricultural Chemicals                    |
| 2040                 | Grain Mill Products               | 2891 | Misc Chemical Products                    |
| 2043                 | Cereal Breakfast Foods            | 2892 | Adhesives & Sealants                      |
| 2047                 | Dog, Cat, & Other Pet Food        | 2893 | Explosives                                |
| 2050                 | Bakery Products                   | 2899 | Printing Inks                             |
| 2060                 | Sugar & Confectionery Products    | 2900 | Salt (By Evaporation)                     |
| 2063                 | Beet Sugar                        |      |   |
| 2070                 | Fats & Oils                       | 2911 | <b>PETROLEUM &amp; COAL PRODUCTS</b>      |
| 2076                 | Vegetable Oil Mills               | 2950 | Petroleum Refining                        |
| 2077                 | Animal & Marine Fats & Oils       |      | Paving & Roofing Materials                |
| 2080                 | Beverages                         | 3000 |   |
| 2082                 | Malt Beverages                    |      | <b>RUBBER &amp; MISC PLASTIC PRODUCTS</b> |
| 2084                 | Wines, Brandy, & Brandy Spirits   | 3011 | Tires & Inner Tubes                       |
| 2085                 | Distilled Liquors (except brandy) | 3069 | Fabricated Rubber Products                |
| 2086                 | Bottled & Canned Soft Drinks      | 3079 | Misc Plastic Products                     |
| 2087                 | Flavoring Extracts & Syrups       | 3100 | <b>LEATHER &amp; LEATHER PRODUCTS</b>     |
| 2090                 | Misc Foods & Kindred Products     |      | Leather Tanning & Finishing               |
| 2091                 | Canned & Cured Seafood            | 3111 |   |
| 2092                 | Fresh Or Frozen Packaged Fish     |      |   |

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| 3200 | <b>STONE, CLAY, &amp; GLASS PRODUCTS</b> | 3480 | Ordnance & Accessories                     |
|      |  | 3490 | Misc Fabricated Metal Products             |
| 3220 | Glass & Glassware, Pressed Or Blown      | 3500 | <b>MACHINERY, EXCEPT ELECTRICAL</b>        |
| 3241 | Cement                                   | 3510 | Engines & Turbines                         |
| 3250 | Structural Clay Products                 | 3520 | Farm & Garden Machinery                    |
| 3260 | Pottery & Related Products               | 3530 | Construction & Related Machinery           |
| 3270 | Concrete, Gypsum, & Plaster Products     | 3540 | Metalworking Machinery                     |
| 3271 | Concrete Block & Brick                   | 3550 | Special Industry Machinery                 |
| 3273 | Ready-Mixed Concrete                     | 3560 | General Industrial Machinery               |
| 3274 | Lime                                     | 3570 | Office & Computing Machines                |
| 3275 | Gypsum Products                          | 3580 | Refrigeration & Service Machinery          |
| 3290 | Misc Nonmetallic Mineral Products        | 3590 | Misc Machinery (Except Electrical)         |
| 3291 | Abrasive Products                        | 3600 | <b>ELECTRIC &amp; ELECTRONIC EQUIPMENT</b> |
| 3292 | Asbestos Products                        | 3610 | Electric Distributing Equipment            |
| 3295 | Minerals, Ground Or Treated              | 3620 | Electric Industrial Apparatus              |
| 3297 | Nonclay Refractories                     | 3630 | Household Appliances                       |
| 3300 | <b>PRIMARY METAL INDUSTRIES</b>          | 3640 | Electric Lighting & Wiring Equipment       |
| 3310 | Blast Furnaces & Basic Steel             | 3650 | Radio & TV Receiving Equipment             |
| 3312 | Blast Furnaces & Steel Mills             | 3660 | Communication Equipment                    |
| 3313 | Electrometallurgical Products            | 3670 | Electronic Components & Accessories        |
| 3315 | Steel Wire & Related Products            | 3690 | Misc Electrical Equipment, Supplies        |
| 3316 | Cold Finishing Of Steel Shapes           | 3700 | <b>TRANSPORTATION EQUIPMENT</b>            |
| 3317 | Steel Pipe & Tubes                       | 3710 | Motor Vehicles & Equipment                 |
| 3320 | Iron & Steel Foundries                   | 3711 | Motor Vehicles & Car Bodies                |
| 3321 | Gray Iron Foundries                      | 3714 | Motor Vehicles, Parts & Accessories        |
| 3322 | Malleable Iron Foundries                 | 3715 | Truck Trailers                             |
| 3330 | Primary Nonferrous Metals                | 3720 | Aircraft & Parts                           |
| 3331 | Primary Copper                           | 3730 | Ship & Boat Building & Repairing           |
| 3332 | Primary Lead                             | 3740 | Railroad Equipment                         |
| 3333 | Primary Zinc                             | 3750 | Motorcycle, Bicycles, & Parts              |
| 3334 | Primary Aluminum                         | 3760 | Guided Missiles & Space Vehicle Parts      |
| 3340 | Secondary Nonferrous Metals              | 3790 | Misc Transportation Equipment              |
| 3360 | Die Casting                              | 3792 | Travel Trailers & Campers                  |
| 3361 | Aluminum Foundries                       | 3795 | Tanks & Tank Components                    |
| 3362 | Brass, Bronze, & Copper Foundries        | 3800 | <b>INSTRUMENTS &amp; RELATED PRODUCTS</b>  |
| 3390 | Misc Primary Metal Products              | 3810 | Engineering & Scientific Instruments       |
| 3398 | Metal Heat Treating                      | 3820 | Measuring & Controlling Devices            |
| 3400 | <b>FABRICATED METAL PRODUCTS</b>         | 3830 | Optical Instruments & Lenses               |
| 3410 | Metal Cans & Shipping Containers         | 3840 | Medical Instruments & Supplies             |
| 3420 | Cutlery, Hand Tools, & Hardware          | 3860 | Photographic Equipment & Supplies          |
| 3440 | Plumbing & Heating (Except Electric)     | 3880 | <b>MISC MANUFACTURING INDUSTRIES</b>       |
| 3450 | Fabricated Structural Metal Products     | 3890 | Jewelry, Silverware, & Plated Ware         |
| 3460 | Screw Machine Products, Bolts, etc.      | 3910 | Musical Instruments                        |
| 3462 | Metal forgings & Stampings               | 3930 | Toys & Sporting Goods                      |
| 3463 | Iron & Steel forgings                    | 3940 | Pens, Pencils, Office, & Art Supplies      |
| 3465 | Nonferrous forgings                      | 3950 | Misc Manufacturers                         |
| 3470 | Automotive Stampings                     | 3990 |  |
| 3471 | Metal Services                           |      |  |
| 3479 | Plating & Polishing                      |      |  |
|      | Metal Coating & Allied Services          |      |  |

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|      | <b>TRANSPORTATION</b>                            | 7997 | Membership Sports & Recreation Clubs |
| 4010 | <b>RAILROADS</b>                                 | 8000 |                                      |
| 4200 | <b>TRUCKING &amp; WAREHOUSING</b>                | 8050 | <b>HEALTH SERVICES</b>               |
| 4210 | Trucking (Local & Long Distance)                 | 8060 | Nursing & Personal Care Facilities   |
| 4214 | Hauling Liquid Wastes                            | 8070 | Hospitals                            |
| 4221 | Farm Product Warehousing & Storage               | 8080 | Medical & Dental Laboratories        |
| 4222 | Refrigerated Warehousing                         |      | Outpatient Care Facilities           |
| 4230 | Trucking Terminal Facilities                     |      |                                      |
| 4400 | <b>WATER TRANSPORTATION</b>                      |      |                                      |
| 4430 | Great Lakes Transportation                       |      |                                      |
| 4440 | Transportation On Rivers & Canals                |      |                                      |
| 4452 | Ferries  |      |                                      |
| 4454 | Towing & Tugboat Service                         |      |                                      |
| 4460 | Water Transportation Services                    |      |                                      |
| 4463 | Marine Cargo Handling                            |      |                                      |
|      | <b>SERVICES</b>                                  |      |                                      |
| 4900 | <b>ELECTRIC, GAS, &amp; SANITARY SERVICES</b>    |      |                                      |
| 4911 | Electric Services                                |      |                                      |
| 4925 | Gas Production &/or Distribution                 |      |                                      |
| 4953 | Refuse Systems                                   |      |                                      |
| 5810 | <b>EATING &amp; DRINKING PLACES</b>              |      |                                      |
| 6512 | <b>OFFICE BUILDINGS</b>                          |      |                                      |
| 7000 | <b>HOTELS &amp; OTHER LODGING PLACES</b>         |      |                                      |
| 7011 | Hotels, Motels, & Tourist Courts                 |      |                                      |
| 7030 | Camps & Trailer Parks                            |      |                                      |
| 7032 | Sporting & Recreational Camps                    |      |                                      |
| 7210 | <b>LAUNDRY, CLEANING, &amp; GARMENT SERVICES</b> |      |                                      |
| 7215 | Coin-Operated Laundries                          |      |                                      |
| 7391 | <b>LABORATORIES TESTING &amp; RESEARCH</b>       |      |                                      |
| 7399 | Water Softener Service                           |      |                                      |
| 7500 | <b>AUTO REPAIR SERVICES &amp; GARAGES</b>        |      |                                      |
| 7530 | Automotive Repair Shops                          |      |                                      |
| 7542 | Car Washes                                       |      |                                      |
| 7900 | <b>AMUSEMENT &amp; RECREATION SERVICES</b>       |      |                                      |
| 7933 | Bowling Alleys                                   |      |                                      |
| 7940 | Commercial Sports                                |      |                                      |
| 7941 | Sport Clubs & Promoters                          |      |                                      |
| 7948 | Racing (Including Track Operation)               |      |                                      |
| 7992 | Public Golf Courses                              |      |                                      |
| 7996 | Amusement Parks                                  |      |                                      |



G-4610 Beecher Road Flint, MI 48532  
Phone (810) 732-7870 Fax (810) 732-9773  
[www.gcdowws.com](http://www.gcdowws.com)

### **COMMERCIAL SOIL EROSION & SEDIMENTATION CONTROL PERMIT APPLICATION**

#### **1. APPLICANT (Please check if applicant is the landowner or designated agent\*)**

|                                    |        |        |        |
|------------------------------------|--------|--------|--------|
| <input type="checkbox"/> Landowner | NAME:  | EMAIL: |        |
| ADDRESS:                           |        |        |        |
| CITY:                              | STATE: | ZIP:   | PHONE: |

#### **2. LOCATION**

|              |  |                 |                   |
|--------------|--|-----------------|-------------------|
| SECTION      | <input type="checkbox"/> CITY<br><input type="checkbox"/> TOWNSHIP<br><input type="checkbox"/> VILLAGE |                 | PROPERTY TAX ID # |
| SUBDIVISION: | LOT #  | STREET ADDRESS: |                   |

#### **3. PROPOSED EARTH CHANGE**

|  |   |                             |
|--|---|-----------------------------|
| Project Type: Residential <input type="checkbox"/> Industrial <input type="checkbox"/> Multi-Family <input type="checkbox"/> Land Balancing <input type="checkbox"/> Commercial <input type="checkbox"/> | Size of Earth Change<br>(Acres, Linear feet or square feet) |                             |
| Describe Project   |   |                             |
| Name of and distance to nearest Lake, Stream, or Drain   | Date Project to start                                       | Date Project to be complete |

#### **4. SOIL EROSION AND SEDIMENTATION CONTROL PLAN (Refer to Rule 323.1703 of Part 91)**

|   |   |         |
|---|---|---------|
| Note: One complete set of plans must be attached. | Estimated Cost of Erosion and Sedimentation Control |         |
|   | Plan Preparer's Name                                | Phone # |

#### **5. PARTIES RESPONSIBLE FOR EARTH CHANGE**

|   |       |         |              |       |
|---|-------|---------|--------------|-------|
| Name of Landowner (if not provided in Box. 1 above)       |       | Address |              |       |
| Email:  |       |         |              |       |
| City  | State | Zip     | Phone #      |       |
| Name of Individual "On Site" Responsible for Earth Change |       |         | Company Name |       |
| Email:  |       |         |              |       |
| Address   | City  | State   | Zip          | Phone |

**6. PERFORMANCE DEPOSIT (If required by the permitting agency)**

|                         |      |       |     |       |
|-------------------------|------|-------|-----|-------|
| Amount Required \$:     |      |       |     |       |
| Name of Surety Company: |      |       |     |       |
| Address                 | City | State | Zip | Phone |

**7. NOTICE TO APPLICANT**

I hereby acknowledge that if a soil and sedimentation permit is issued, I hereby voluntarily grant the employees of the Genesee County Drain Commissioner's Office, Division of Water and Waste Services, or their designated agents permission to enter onto my property to ensure that the project conforms to the soil erosion and sedimentation permit issued. I further understand that if I revoke my consent for the employees of the Genesee County Drain Commissioner's Office, Division of Water and Waste Services, or their designated agents to enter onto the property set forth herein, the permit is automatically revoked, I will need to resubmit a new soil erosion and sedimentation permit application and I must cease all earth moving activities on the property.

I further understand that if I continue to perform earth moving activities on the property after revoking my consent for the employees of the Genesee County Drain Commissioner's Office, Division of Water and Waste Services, or their designated agents to enter onto the property set forth herein, I may be subject to one or more of the enforcement procedures set forth in Part 91 of Act No. 451 of the Public Acts of 1994, as amended, and the administrative rules promulgated thereunder, including, but not limited to, being issued a civil infraction citation, having an injunction issued to prevent any further earth moving activities on the aforementioned property, the right of the Genesee County Drain Commissioner's Office, Division of Water and Waste Services or its agents to enter onto my property to install soil erosion and sedimentation control procedures and lien the property for all costs associated with installing the soil erosion and sedimentation control procedures, and/or the forfeiture of any security submitted in the amount required to bring the property into compliance with Part 91 of Act No. 451 of the Public Acts of 1994, as amended.

I hereby acknowledge that the information contained herein is truthful and accurate to the best of my knowledge. I understand that if I knowingly make any false statement in this application it may result in a civil fine of not more than \$10,000.00 per day for each violation.

I (we) affirm that the above information is accurate and that I (we) will conduct the above-described earth change in accordance with Part 91, Soil Erosion and Sedimentation Control, of the Natural Resource and Environmental Protection Act, 1994 PA 451, as amended, applicable local ordinances, and the documents accompanying this application.

|                               |            |      |
|-------------------------------|------------|------|
| Landowner's Signature         | Print Name | Date |
| Designated Agent's Signature* | Print Name | Date |

\* Designated agent must have a written statement from landowner authorizing him/her to secure a permit in the landowner's name.

LOG NO: \_\_\_\_\_

DATE: \_\_\_\_\_

**Genesee County Drain Commissioner Division of Water and Waste Services  
Soil Erosion and Sedimentation Control Plan Submittal Checklist**

**All SESC plans submitted to this office shall at a minimum be accompanied by the following information.**

1.  Legal description, tax I.D. number and/or survey of site.
2.  A SESC site plan (scale of not more than 1"=200' on 24"x36" sheets) of the property with the items below clearly labeled :(Residential can be submitted on letter or legal paper)
  - A.  Name and address of Applicant. Name and address of landowner.
  - B.  Project Name, location, proximity to waters of the State (lake, stream, drain, wetlands) and (the 100 year floodplain contour for those waters for commercial applications only).
  - C.  Location map, NORTH arrow and drawing scale.
  - D.  Limits of earth change delineated and clearly labeled.
  - E.  Existing and proposed contours. If unchanged so state.
  - F.  Existing and proposed on-site and off-site (within drainage area of earth change) drainage and dewatering facilities including temporary dewatering shall be clearly labeled and identified.
  - G.  Existing on-site vegetation (type and location).
  - H.  Soil stock pile locations.
  - I.  Description of installation and location of all temporary and permanent erosion control measures, with measures clearly drafted and labeled with the (Michigan Unified Keying System and GCDC-WWS Specifications for commercial applications only).
  - J.  A program proposal for the continued maintenance of all permanent soil erosion and sediment control measures that remain after project completion.
  - K.  Person responsible for continued maintenance once permit is closed

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Phone #: \_\_\_\_\_  
Email address: \_\_\_\_\_

3. \_\_\_\_\_ A topographic map with the affected area clearly labeled.
4. \_\_\_\_\_ Existing soils information, with project area clearly labeled. (Soils Map)
5. \_\_\_\_\_ A completed Soil Erosion and Sedimentation Control application.
6. \_\_\_\_\_ A completed construction and maintenance schedule including a plan for permanent stabilization.
7. \_\_\_\_\_ A copy of any submitted MDEQ permit applications (as applicable) required for completing earthwork within the boundaries of waters of the state.

**I hereby certify that the above information has been provided with the submitted plans.**

Name of Party Preparing Checklist: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**OFFICE USE ONLY**

This application review packet will be reviewed for completeness within 5 business days of being received. If the application review packet is found to be incomplete it will be returned in its entirety to the entity that made the submission.

Dated Received: \_\_\_\_\_

Is this application complete? YES  NO

Dated Verified: \_\_\_\_\_

**SESC Detailed Review:**

Sign: \_\_\_\_\_ Date: \_\_\_\_\_

Project Engineer Authorization to issue SESC Permit: \_\_\_\_\_  
(Commercial SESC ONLY)

Date: \_\_\_\_\_

**Note: It is necessary to submit only one set of plans for review**

# SESC CONSTRUCTION AND MAINTENANCE SCHEDULE

Project Name: \_\_\_\_\_

Anticipated Start Date: \_\_\_\_\_

Anticipated End Date: \_\_\_\_\_

## Construction Schedule

| Construction Sequence   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Notes |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Temporary SESC Measures |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Strip and Stockpile     |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Rough Grading           |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Underground Utilities   |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Road Installation       |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Building Construction   |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Permanent SESC Measures |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Final Grade             |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Landscaping             |     |     |     |     |     |     |     |     |     |     |     |     |       |

## Maintenance Schedule

| Maintenance Sequence      | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Notes |
|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Street Sweeping           |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Silt Fencing              |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Maintain Buffer Strips    |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Inlet Structures          |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Seeding and Mulch         |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Sediment Basins           |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Rip-Rap                   |     |     |     |     |     |     |     |     |     |     |     |     |       |
| Remove Temporary Measures |     |     |     |     |     |     |     |     |     |     |     |     |       |

## Seeding and Planting Schedule

**Temporary:** (Refer to Tables 4 & 6 in MDEQ "Guidelines for Vegetative Erosion control" included with this packet)

| Area on Plan | Mix # | Common Name | Natural Drainage Class Suitability | Suitable Uses | Rate lb/acre |
|--------------|-------|-------------|------------------------------------|---------------|--------------|
|              |       |             |                                    |               |              |
|              |       |             |                                    |               |              |
|              |       |             |                                    |               |              |
|              |       |             |                                    |               |              |

**Permanent:** (Refer to Tables 4 & 6 in MDEQ "Guidelines for Vegetative Erosion control" included with this packet)

| Area on Plan | Mix # | Common Name | Natural Drainage Class Suitability | Suitable Uses | Rate lb/acre |
|--------------|-------|-------------|------------------------------------|---------------|--------------|
|              |       |             |                                    |               |              |
|              |       |             |                                    |               |              |
|              |       |             |                                    |               |              |
|              |       |             |                                    |               |              |

**Trees and Shrubs:** (Refer to Table 7 in MDEQ "Guidelines for Vegetative Erosion control" included with this packet)

| Area on Plan | Quantity | Common Name | Scientific Name | Drainage Class | Notes |
|--------------|----------|-------------|-----------------|----------------|-------|
|              |          |             |                 |                |       |
|              |          |             |                 |                |       |
|              |          |             |                 |                |       |

Revised 1/31/02

GENESEE COUNTY DRAIN COMMISSIONER  
SOIL EROSION BOND  
(To Accompany Application for Permit)

Bond NO. \_\_\_\_\_

(Name of development)

(S-Permit) / Log #

KNOW ALL MEN BY THESE PRESENTS, that \_\_\_\_\_ as principal and \_\_\_\_\_ as surety, are held and firmly bound unto the Genesee County Drain Commissioner in the penal sum of \_\_\_\_\_ dollars, for the payment of which, well and truly to be made, we bind ourselves and our heirs, executors and administrators, jointly and severally, firmly by these presents.

Sealed with our seals and dated this \_\_\_\_\_ day of \_\_\_\_\_ A.D. 20\_\_\_\_.

WHEREAS, the above bounded \_\_\_\_\_ has made application to said Drain Commissioner for a permit as stated in the application therefore.

NOW THEREFORE, the condition of this obligation is such that if the above bounded shall perform the undertakings of said application in the manner prescribed in the permit therefore issued by said Drain Commissioner and shall well and truly pay for all damages on account of such construction, earth moving and all other damages fines and penalties which he shall become liable to pay and shall save said Genesee County Drain Commissioner harmless and indemnify them from all suits, claims, damages and proceedings of every kind arising out of the aforesaid damages and injuries and shall observe all the terms and conditions of the permit to be issued, then this obligation to be void, otherwise of full force and effect.

Principal \_\_\_\_\_

(Seal)

Principal's Mailing address

Surety \_\_\_\_\_

(Seal)

Surety's Mailing Address

.....  
NOTICE TO SURETY OF  
ISSUANCE OF PERMIT

This is to inform you that a permit, covered by the above bond has been issued as follows:

Applicant \_\_\_\_\_

Contractor \_\_\_\_\_

Permit No. \_\_\_\_\_

Permit Date \_\_\_\_\_

Please include this information on all correspondence concerning the bond.

NOTICE OF TERMINATION  
OF LIABILITY

This is to inform you that:

The permit operations covered by the above bond have been completed satisfactorily.

The permit covered by above has been canceled.

Liability under the bond is therefore terminated effective

\_\_\_\_\_  
(Date)

By: \_\_\_\_\_

Table 4. Example Seeding Mixtures for Introduced Species

| Mix # | Common Name   | Natural Drainage Class Suitability | Suitable Uses | Rate lbs/acre       |
|-------|---|------------------------------------|---------------|---------------------|
| 1     | Creeping red fescue   | WD, MWD                            | A, C/F, WW    | 40                  |
| 2     | Creeping red fescue<br>White clover, red clover,<br>or alfalfa  | WD, MWD                            | C/F           | 30<br>4             |
| 3     | <b>Smooth bromegrass</b><br>Creeping red fescue<br>White clover, red clover,<br>or alfalfa              | WD, MWD                            | C/F           | 15<br>15<br>4       |
| 4     | <b>Smooth bromegrass</b><br>alfalfa   | WD, MWD                            | C/F, WW       | 30<br>4             |
| 5     | <b>Smooth bromegrass</b><br>Creeping red fescue   | WD, MWD                            | C/F, WW       | 20<br>20            |
| 6     | <b>Kentucky bluegrass</b><br>Creeping red fescue  | MWD                                | A, C/F        | 20<br>20            |
| 7     | Creeping red fescue<br><b>Tall fescue</b>   | MWD                                | C/F, WW       | 20<br>20            |
| 8     | Creeping red fescue<br>Creeping bentgrass   | MWD, SPD                           | A, C/F        | 40<br>1             |
| 9     | <b>Smooth bromegrass</b><br><b>Tall Fescue</b>  | MWD, SPD                           | C/F, WW       | 20<br>20            |
| 10    | <b>Smooth bromegrass</b><br>Timothy<br>Red clover   | MWD, SPD                           | C/F, WW       | 15<br>4<br>4        |
| 11    | <b>Smooth bromegrass</b><br>Creeping red fescue<br><b>Kentucky bluegrass</b><br><b>Birdfoot trefoil</b> | MWD, SPD                           | C/F, WW       | 10<br>10<br>10<br>4 |
| 12    | <b>Tall fescue</b><br>Creeping bentgrass  | SPD, PD                            | C/F, WW       | 40<br>1             |
| 13    | <b>Tall fescue</b><br>Alsike clover or <b>birdfoot trefoil</b>  | SPD, PD                            | C/F, WW       | 40<br>1             |
| 14    | Redtop<br>Timothy<br>Alsike clover or <b>birdfoot trefoil</b>   | SPD, PD                            | C/F           | 2<br>5<br>2         |
| 15    | <b>Tall Fescue</b><br><b>Smooth Bromegrass</b><br>Creeping bentgrass<br><b>Birdfoot trefoil</b>         | SPD, PD                            | C/F, WW       | 12<br>12<br>1<br>6  |
| 16    | <b>Tall fescue</b><br>Redtop  | SPD, PD, VPD                       | C/F, WW       | 20<br>2             |

| Mix # | Common Name   | Natural Drainage Class Suitability | Suitable Uses | Rate lbs/acre              |
|-------|---|------------------------------------|---------------|----------------------------|
| 17    | Redtop<br>Alsike clover or birdfoot trefoil   | PD, VPD                            | C/F           | 4<br>2                     |
| 18    | Creeping red fescue<br><b>Kentucky bluegrass</b><br>Redtop<br>Timothy<br>Alsike clover  | See Note #1                        | C/F           | 8<br>8<br>1<br>2<br>3      |
| 19    | Creeping red fescue<br>Redtop<br><b>Tall fescue</b><br><b>Smooth Bromegrass</b><br>Alsike clover or <b>birdfoot trefoil</b><br>White clover, red clover, or alfalfa | See Note #1                        | C/F, WW       | 6<br>1<br>6<br>6<br>3<br>3 |

Five pounds of annual or perennial ryegrass may be added to any mixture if quick cover is desired.

1 - These mixtures are suitable for large or linear projects where several soil types may be encountered, but a single seed mixture is desired for the entire project.

**Table 6. Seed Selection Guide for some Commonly Available Native Grasses**

| Common Name         | Scientific Name                | Seeding Rate lbs/acre | Drainage Class Suitability | Notes |
|---------------------|--------------------------------|-----------------------|----------------------------|-------|
| American beachgrass | <i>Ammophila breviligulata</i> |                       | Dunes, WD sands            | 1     |
| "Tioga" Deer tongue | <i>Panicum clandestinum</i>    | 15                    | WD, MWD                    | 2, 3  |
| Little bluestem     | <i>Schizachyrium scoparius</i> | 12                    | WD, MWD                    | 2     |
| Big bluestem        | <i>Andropogon gerardii</i>     | 15                    | WD, MWD, SPD               | 2     |
| Switch grass        | <i>Panicum virgatum</i>        | 10                    | WD, MWD, SPD               | 2     |
| Indian grass        | <i>Sorghastrum nutans</i>      | 10                    | WD, MWD, SPD               | 2     |

**Notes:**

- 1 - Beachgrass is planted vegetatively; see text.
- 2 - Warm season grasses.
- 3 - Suitable for sand and gravel pit and mine reclamation.

A great variety of native species are available; consult suppliers for cultural information.

### **KEY FOR Information in Tables 4, 5, 6, and 7**

#### *Abbreviations for Soil Natural Drainage Classes*

WD = Well Drained

MWD = Moderately Well Drained

SPD = Somewhat Poorly Drained

PD = Poorly Drained

VPD = Very Poorly Drained

#### *Abbreviations for Suitable Uses (Table 4)*

A = Sites maintained as a lawn

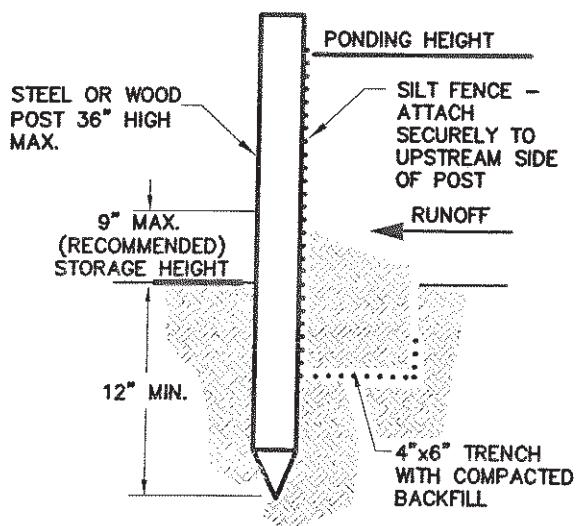
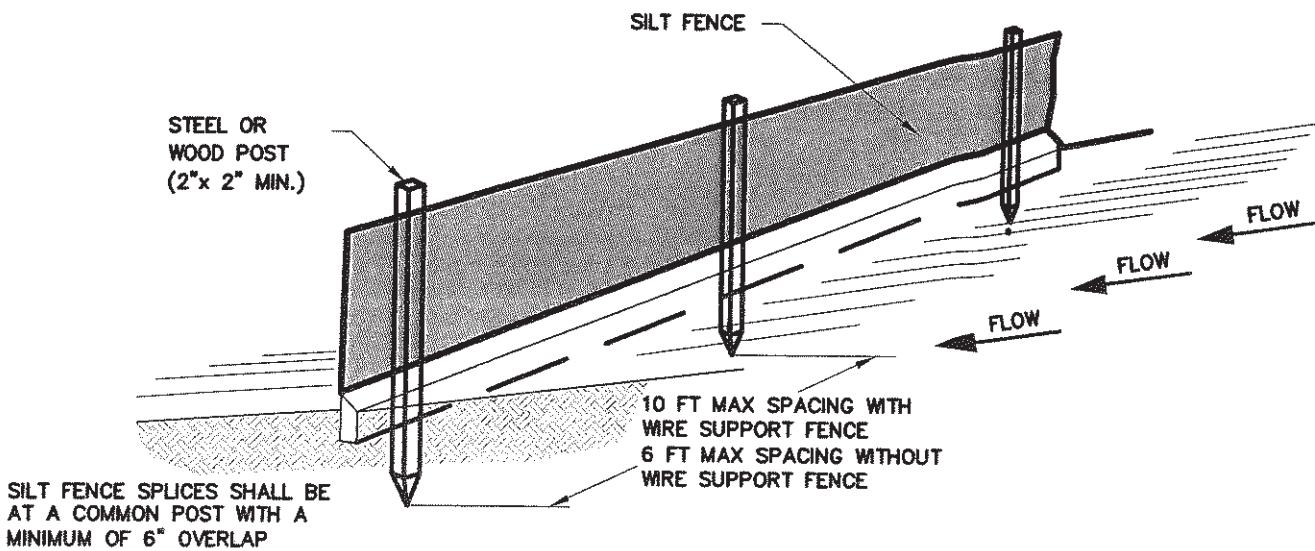
C/F = Cut and fill, slopes, ditch banks

WW = Areas subject to periodic storm water flow such as grassed waterways,  
ditch bottoms, diversions

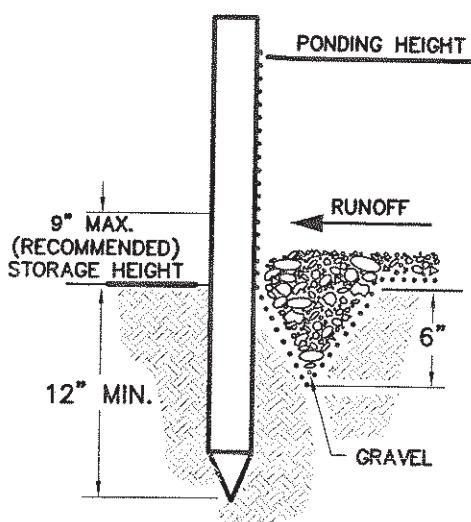
Species shown in **bold face** may be invasive and should not be planted where they can escape into sensitive natural areas.

**Table 7. Selected Trees and Shrubs for Erosion Control**

| Common Name   | Scientific Name                               | Drainage Class Suitability | Notes |
|---|---|----------------------------|-------|
| <b>Evergreen Trees</b>  |   |                            |       |
| Jack Pine   | <i>Pinus banksiana</i>                        | WD, MWD, SPD               |       |
| Red Pine  | <i>Pinus resinosa</i>                         | WD, MWD                    |       |
| White Pine  | <i>Pinus strobus</i>                          | MWD, SPD                   |       |
| Norway Spruce   | <i>Picea abies</i>                            | WD, MWD                    | 1     |
| <b>Deciduous Trees</b>  |   |                            |       |
| Quaking aspen   | <i>Populus tremuloides</i>                    | WD, MWD, SPD               |       |
| Bigtooth aspen  | <i>Populus grandidentata</i>                  | WD, MWD                    |       |
| Hybrid popular  | <i>Populus spp.</i>                           | WD, MWD, SPD               | 1     |
| Red maple   | <i>Acer rubrum</i>                            | ADAPTABLE                  |       |
| Silver maple  | <i>Acer saccharinum</i>                       | MWD, SPD, PD               |       |
| Hawthorn  | <i>Crataegus spp.</i>                         | varies by species          | 3     |
| Black willow  | <i>Salix nigra</i>                            | SPD, PD, VPD               |       |
| With the exception of hawthorn, the trees listed above are fast growing and selected for their potential use in windbreaks.   |   |                            |       |
| <b>Shrubs</b>   |   |                            |       |
| Northern bayberry   | <i>Myrica pensylvanica</i>                    | WD, MWD                    | 1,2   |
| Fragrant sumac  | <i>Rhus aromatica</i>                         | WD, MWD                    | 2     |
| Staghorn sumac  | <i>Rhus typhina</i>                           | WD, MWD                    |       |
| Gray dogwood  | <i>Cornus foemina</i><br>( <i>racemosa</i> )  | WD, MWD, SPD               |       |
| Red-osier dogwood   | <i>Cornus Stolonifera</i>                     | SPD, PD, VPD               |       |
| Cranberry-bush viburnum   | <i>Viburnum opulus</i><br>( <i>trilobum</i> ) | SPD, PD, VPD               |       |
| Scrub willows   | <i>Salix spp.</i>                             | SPD, PD, VPD               |       |
| Blackberry/raspberry  | <i>Rubus spp.</i>                             | varies by species          | 3     |
| The shrubs listed above are selected for vigorous and extensive root growth. Willows are particularly useful for stream bank stabilization; they will sprout from cuttings or branch bundles if moisture is adequate. |   |                            |       |
| <b>Notes -</b>  |   |                            |       |
| 1 - These species are not native to Michigan (bayberry is native, but very rare).   |   |                            |       |
| 2 - These species may not be cold hardy in the Northern Lower or Upper Peninsula.   |   |                            |       |
| 3 - Thorny species are useful for excluding humans where foot traffic may create erosion sites.   |   |                            |       |



STANDARD DETAIL  
TRENCH WITH NATIVE BACKFILL



ALTERNATE DETAIL  
TRENCH WITH GRAVEL

#### APPLICATIONS

1. INSTALLED TO REDUCE SEDIMENT LADEN SURFACE RUNOFF FROM LEAVING THE PROPERTY OF A CONSTRUCTION SITE INVOLVING DISTURBED EARTH.
2. DIVERSIONARY STRUCTURE.

#### DESIGN

1. INSTALL AROUND THE BASE OF SOIL STOCKPILES.
2. UTILIZE FOR SHEET FLOW ONLY.

#### DESIGN (CONT)

3. INSTALL ON DOWN STREAM SIDE OF CONSTRUCTION.
4. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
5. IF POSSIBLE LOCATE FENCE 10-FT. FROM TOP OF SLOPE, WETLAND OR WATER BODY.



## GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE

- DIVISION OF -

### WATER & WASTE SERVICES

G-4610 BEECHER ROAD - FLINT, MICHIGAN 48532-2617

PHONE (810) 732-7870 - FAX (810) 732-9773

JEFFREY WRIGHT  
COMMISSIONER

### Industrial Pretreatment Program Fee Structure – Nondomestic Discharge Permits

|   |         |                  |
|---|---------|------------------|
| 1. Application Review Fee   | \$50    | New each 5 years |
| 2. General Permit Fee (no process water)  | \$50    | No expiration    |
| 3. Temporary General Permit Fee (no process water)  | \$25    | Annually         |
| 4. Temporary Food Service Establishment BMP Permit Fee  | \$50    | Annually         |
| 5. Temporary Food Service Establishment Permit Fee w/o BMP  | \$100   | Annually         |
| 6. Food Service Establishment BMP Permit Fee  | \$75    | Annually         |
| 7. Food Service Establishment Permit Fee w/o BMP  | \$150   | Annually         |
| 8. Minor Industrial Discharge Permit<br>(Car Wash, Oil Change Facilities, X-Ray Processing, One-Hour Photo) | \$150   | Annually         |
| 9. Dental BMP Permits (with amalgam separator)  | \$75    | Annually         |
| 10. Dental Permit w/o BMP (no amalgam separator)  | \$150   | Annually         |
| 11. Medical PRP Permits (mercury potential)   | \$75    | Annually         |
| 12. Medical Permit w/o PRP (mercury potential)  | \$150   | Annually         |
| 13. Low Strength Remediation Water with Pretreatment  | \$0.03  | Per Gallon*      |
| 14. Low Strength Remediation Water w/o Pretreatment   | \$0.06  | Per Gallon*      |
| 15. Tanked Waste  | \$0.074 | Per Gallon*      |
| 16. High Volume Tanked Waste  | \$0.03  | Per Gallon*      |

To qualify for the High Volume Rate the disposer must deliver  
To the designated WWS receiving station a minimum of  
200,000 gallons in one calendar month

### High Strength Compatible Pollutant Surcharge Rates

|                           |           |
|---------------------------|-----------|
| 1. BOD5                   | \$0.14/lb |
| 2. Total Suspended Solids | \$0.12/lb |
| 3. Ammonia                | \$0.68/lb |
| 4. Phosphorus             | \$1.90/lb |

\*Requires an account established prior to discharge and pre-payment of fees. Additional charges may be incurred for high strength compatible pollutant discharges.

Approved:

John F. O'Brien

Director of Water and Waste Services

Date Effective: June 1, 2014

## FEE SCHEDULE

### **SOIL EROSION AND SEDIMENTATION CONTROL FEES**

|   |  |
|---|--|
| 1.) Single Family Residential ( <u>Homeowner</u> performing the work on existing house and per lot or parcel) |  |
| a.) Application Review Fee  | \$ 35  |
| b.) Waiver for Single Family Residential  | No Additional Charge                           |
| c.) Permit Fee for Single Family Residential, including permit renewal.                                       | \$ 100   |
| d.) Permit Fee for Personal Recreational Pond   | \$ 75  |
| 2.) Single Family Residential ( <u>Contractor</u> performing the work per lot or parcel)                      |  |
| a.) Application Review Fee  | \$ 35  |
| b.) Waiver for New Home   | No Additional Charge                           |
| c.) Permit Fee for New Home or addition, including permit renewal.  |  |
| 6 month duration/12 month duration.   | \$ 100/\$200                                   |
| d.) Permit Fee for Personal Recreational Pond   | \$ 75  |
| 3.) Multi-Family, Commercial or Industrial  |  |
| a.) Application Review Fee for Non Single Family Residential Site   | \$100 per acre                                 |
| b.) Permit Fee Min. 6 month permit duration including renewal   | \$100 per month                                |
| c.) Waiver for Non-Single Family Residential Site   | No Additional Charge                           |
| 4.) Utility – Trench Construction Only  |  |
| a.) Application Review Fee  | \$100  |
| b.) Permit Fee  | \$0.20 Per Lineal Foot with A Minimum of \$250 |
| 5.) Miscellaneous Fees  |  |
| a.) Permit Transfer   | \$ 35  |
| b.) Issue/Lift Cease and Desist Order   | \$200  |
| c.) Commence Construction Without Permit  | Double Normal Fee                              |
| 6.) SESC Bond   |  |
| a.) Cash Bond, Surety Bond, or Letter of Credit   | \$3,000 Per Acre Disturbance                   |

### **PLAN REVIEW FEES – SITE PLANS, PLATS, CONSTRUCTION PLANS**

|  |                |
|--|----------------|
| 1.) Plan Review Fee (Initial and One Follow-Up Review)     | \$250          |
| a.) Each Additional Review                                 | \$250          |
| 2.) Utility Capacity Review (If Not Under O & M Agreement) | \$100 Per Hour |
| 3.) Grinder Pump Station Permit Review Fee                 | \$200          |

### **INSPECTION FEES**

|   |  |
|---|--|
| 1.) S-Permit (Sanitary Sewer and Watermain) – All Applicants                                      | \$2.00 Per Lineal Foot                                   |
| a.) Final Testing   | \$300  |
| b.) Water Usage   | \$85 Minimum (Or Actual Use (Based On Diameter & Length) |
| 2.) B-Permit Inspection - location and pipe type only does not replace other required inspections |  |
| a.) Service Lead Inspection (sewer & water)   | \$50   |
| 3.) IPP Device Inspection (grit trap, grease trap, etc.)  | \$50   |

**WATER SERVICE LEAD INSTALLATION FEES**

|  | <u>Standard</u>    | <u>Non-Standard Composite</u> |
|--|--------------------|-------------------------------|
| 1.) 1" Service Lead DI (includes meter)<br>5/8" Meter Only       | \$3,950<br>\$265   | \$3,950<br>\$305              |
| 2.) 1" Service Lead DI (includes meter)<br>1" Meter Only         | \$3,950<br>\$340   | \$3,950<br>\$390              |
| 3.) 1" Service Lead Steel (includes meter)<br>1" Meter Only      | \$13,400<br>\$340  | \$13,450<br>\$390             |
| 4.) 1-1/2" Service Lead DI (includes meter)<br>1-1/2" Meter Only | \$8,300<br>\$1,200 | \$8,715<br>\$1,615            |
| 5.) 2" Service Lead DI (includes meter)<br>2" Meter Only         | \$9,400<br>\$1,425 | \$9,815<br>\$2,255            |

*Please Contact Our Office for Information Regarding Meters Larger Than 2"  
 Meters Will Be Charged at Market Value*

**WELL METERS**

*Installed on Wells to Meter for Sewerage Discharge  
 Includes Cost Recovery For 5-Year Replacement and Installation of Radio Reader Device*

| <u>Standard</u> | <u>Non-Standard Composite</u> |
|-----------------|-------------------------------|
|-----------------|-------------------------------|

|                  |         |         |
|------------------|---------|---------|
| 1.) 5/8" Meter   | \$340   | \$380   |
| 2.) 1" Meter     | \$415   | \$465   |
| 3.) 1-1/2" Meter | \$1,225 | \$1,640 |
| 4.) 2" Meter     | \$1,500 | \$1,915 |

**ADDITIONAL FEES**

|  |  |
|--|--|
| 1.) Adjustment Permit for Sanitary Manhole   | \$100 Minimum or Actual Cost   |
| 2.) Fire Hydrant Relocation                  | Calculated at \$50/hr<br>\$500 Minimum or Actual Cost                  |
| 3.) Hydrant Flow Test                        | \$100  |
| 4.) Special Inspections                      | Calculated at \$50/hr<br>\$50/hr – Straight Time<br>\$75/hr – Overtime |
| 5.) Vehicle Charge                           | \$100/Day  |
| 6.) Meter Test / Calibration                 | \$75   |
| 7.) Saddle Tap                               | \$200 Gravity Line<br>\$400 Force Main                                 |
| 8.) Duplication Charges – Prints, Maps, Etc. |  |
| a.) 24 x 36 – Hard Copies                    | \$5/Page   |
| b.) 24 x 36 – Digital Transfer               | \$3/Page   |
| c.) 36 x 36 – Hard Copy                      | \$8/Page   |
| d.) 36 x 36 – Digital Transfer               | \$6/Page   |

**HYDRANT GENERAL**

*Contact Office for Locations and Current Water Rates*

Billed By Pre-Approved Account (Usage At Coin Operated Rate)      \$100 Set-Up Charge

**IPP – INDUSTRIAL PRE-TREATMENT DISCHARGE PROGRAM – INDUSTRIAL &  
NON-DOMESTIC USERS**

a. Industrial Pretreatment Program – Nondomestic User Permit Fees

Permits are renewable based on the following:

|  |   |
|--|---|
| 1. Application Review Fee                                    | \$50  |
| 2. General Permit Fee (no process water)                     | \$185 Every 5 years   |
| 3. Minor Pretreatment Risk                                   | \$260 Every 3 years   |
|  | (Facilities producing a small volume of concentration of non-domestic wastewater that requires a properly operated minor pretreatment system: grease interceptors, oil/water separators, amalgam separators, silver recovery systems)                           |
| 4. Moderate Pretreatment Risk                                | \$415 Every 3 years   |
|  | (Non-industrial facilities producing a moderate to high volume of concentration of non-domestic wastewater that requires a properly operated minor pretreatment system: grease interceptors, oil/water separators, amalgam separators, silver recovery systems) |
| 5. Industrial, Significant Industrial, and Categorical Users | Itemized Costs Annually   |
|  | (Cannabis Facilities and Processors)  |
|  | (Non-industrial facilities producing a moderate to high volume of concentration of non-domestic wastewater that requires a properly operated minor pretreatment system: grease interceptors, oil/water separators, amalgam separators, silver recovery systems) |
| a. Low Strength Remediation Water with Pretreatment          | \$0.04 Per Gallon*  |
| b. Low Strength Remediation Water w/o Pretreatment           | \$0.07 Per Gallon*  |
| c. Tanked Waste  | \$0.084 Per Gallon*   |
| d. Vactor Decant Pit   | \$100.00 Per Load*  |
| e. High Volume Tanked Waste                                  | \$0.04 Per Gallon*  |

There are two ways to qualify for the High-Volume Tanked Waste Rate:

**Monthly:** The permit holder must deliver or have delivered to the designated WWS receiving station a minimum of 200,000 gallons in one calendar month.

**Yearly:** The permit holder must deliver or have delivered to the designated WWS receiving station a minimum of 2,400,000 gallons in one calendar year (200,000 monthly average). The permit holder and/or hauler will receive monthly invoices and is required to pay the invoice in full each month. In January of the following year WWS staff will review each account to determine if they qualify for the yearly High-Volume Tanked Waste rate. For the permit holder and/or haulers to qualify, WWS staff will re-calculate the charges at the High-Volume Tanked Waste rate for the months in which the 200,000-gallon monthly minimum was not met and the credit will be applied to the account.

\*Requires an account to be established prior to discharge and a pre-payment of fees. Additional charges may be incurred for high strength compatible pollutant discharges.

b. High Strength Compatible Pollutant Surcharge Rates

Anthony Ragnone Treatment Plant (ARTP)

|                           |           |
|---------------------------|-----------|
| 1. BOD5                   | \$0.17/lb |
| 2. Total Suspended Solids | \$0.17/lb |
| 3. Ammonia                | \$0.94/lb |
| 4. Phosphorus             | \$2.04/lb |

District #3

|                           |           |
|---------------------------|-----------|
| 1. BOD5                   | \$0.38/lb |
| 2. Total Suspended Solids | \$0.33/lb |
| 3. Ammonia                | \$2.61/lb |
| 4. Phosphorus             | \$5.44/lb |

Approved:

Jeff Wright, Drain Commissioner

July 1, 2022

Effective Date

Date: November 3, 2008 (original)

Revised: August 9, 2010 Revised: June 15, 2011

Revised: January 1, 2013 Revised: May 5, 2015

Revised: July 1, 2015 Revised: October 5, 2018

Revised: November 26, 2018

**NOTICE OF RATE CHANGE**  
**RATES AND CHARGES TO BE MADE TO THE MUNICIPALITIES**  
**SERVED BY THE GENESEE COUNTY SEWAGE DISPOSAL SYSTEM**  
**INTERCEPTOR AND TREATMENT FACILITIES (DISTRICTS 1, 2, 4, 5)**  
**EFFECTIVE WITH THE BILLINGS TO BE SENT ON OR AFTER JANUARY 2, 2022**

**I. RATES:**

- A. Where individual water meter readings are available, the readings shall be used as the basis for payment. The rate charge shall be based on the water consumption measured by the accumulation of these individual water meter readings and shall be \$2.20 per 100 cubic feet of water consumed or \$2.95 per 1,000 gallons of water consumed, plus a minimum charge of \$5.70 per month (\$17.10 per quarter) per unit.
- B. Where community bulk sewer meter readings are available, the readings shall be used as a basis of payment. The rate charge shall be based on sewer discharged through a meter directly into the county interceptor and shall be \$2.55 per 100 cubic feet (or \$3.37 per 1,000 gallons) of sewage received, plus a minimum charge of \$600.00 per month.
- C. For all other connections having an unmetered water supply, the rate shall be \$33.25 per unit per month (\$99.75 per quarter) based upon the Residential Equivalent Units (REU) set forth below:

| <u>USAGE</u>                                   | <u>REU</u>             |
|--|------------------------|
| General Office Building Space.....             | 0.60 per 1000 sq. ft.  |
| Medical Office Space .....                     | 0.60 per 1000 sq. ft.  |
| Auto Dealers.....                              | 0.40 per 1000 sq. ft.  |
| Restaurant (Sit Down or Fast Food).....        | 0.16 per seat          |
| Fast Food Drive-Thru Window .....              | 2.00 per window        |
| Outdoor seating & Bar Area- Restaurant .....   | 0.06 per seat/stool    |
| Café .....                                     | 0.10 per seat/stool    |
| Carry Out- No Seating.....                     | 2.00 per establishment |
| Multiple Family Residence .....                | 1.00 per unit          |
| RV/ Campground .....                           | 0.60 per site          |
| Assist. Living /Any Food Prep in Rooms.....    | 0.60 per Room/Unit     |
| Convalescent Homes .....                       | 0.30 per bed           |
| Hotels/Motel/Bed & Breakfast.....              | 0.25 per bed           |
| Rooming/Halfway Houses .....                   | 0.30 per person        |
| Shelters, Boarding School or Convents.....     | 0.30 per person        |
| Churches.....                                  | 0.01 per seat          |
| Country Clubs .....                            | 0.10 per member        |
| Fraternal Organizations .....                  | 1.25 per hall          |
| Fraternal Organizations/ Rental Halls .....    | 2.50 per hall          |
| Schools (with Cafeteria/ No Showers/Pool)..... | 1.50 per classroom     |
| Schools (with Showers/Pool) .....              | 2.00 per classroom     |
| Schools (with Cafeteria/ Showers/ Gym).....    | 2.50 per classroom     |
| Daycares.....                                  | 1.50 per classroom     |
| Drug Stores.....                               | 0.35 per 1000 sq. ft.  |
| Grocery Stores & Super Markets .....           | 1.10 per 1000 sq. ft.  |
| Retail Store .....                             | 0.20 per employee      |
| Gas Stations.....                              | 0.30 per pump          |
| Convenience Store.....                         | 1.10 per 1000 sq. ft.  |
| Strip Malls.....                               | 1.00 per tenant space  |
| Bowling Alleys.....                            | 0.20 per alley         |
| Swimming Pool.....                             | 3.50 per 1000 sq. ft.  |
| Pool Table Hall.....                           | 0.20 per table         |

|  |   |
|--|---|
| Theaters (Drive-Ins) .....                           | 0.10 per car space                            |
| Theaters .....                                       | 0.0001 x weekly hours<br>of operation x seats |
| Fitness Center .....                                 | 0.60 per 1000 sq. ft.                         |
| Car Wash (with track) .....                          | 10.00 per single                              |
| production line                                      |   |
| Car Wash (Stationary w/o recycle) .....              | 8.00 per bay                                  |
| Car Wash (Stationary w/ recycle) .....               | 5.00 per bay                                  |
| Car Wash (Stationary, Do It Yourself.).....          | 1.50 per wand                                 |
| Dry Cleaners (Pressing) .....                        | 1.25 per press                                |
| Dry Cleaners (Pick up Only) .....                    | 0.20 per employee                             |
| Laundromat .....                                     | 1.50 per washer                               |
| Barber Shops .....                                   | 0.08 per chair                                |
| Beauty Shops/Nail Salon/ Spa Pedicures .....         | 0.30 per booth                                |
| Factories .....                                      | 0.50 per 1000 sq. ft.                         |
| Warehouses .....                                     | 0.10 per 1000 sq. ft.                         |
| Hospitals.....                                       | 1.40 per bed                                  |
| Public Institutions (Library/ Courthouse).....       | 0.40 per employee                             |
| Uses that do not correspond to categories above..... | Site Specific Estimates                       |

## II. INFLOW AND INFILTRATION

### A. Fee

Each community shall pay additional fees for excess inflow and infiltration delivered to the County interceptor for treatment. Excess inflow and infiltration shall be considered to be any flow in excess of two (2) times the annual average flow. If a 25-year storm event results in excess flows, no fee shall be collected by the County Agency.

The fees shall be as follows:

|   |                           |
|---|---------------------------|
| Volume from 2 to 2.5 times the community<br>average flow              | \$1.00 per 100 cubic feet |
| Volume from greater than 2.5 to 3 times the community<br>average flow | \$2.00 per 100 cubic feet |
| Volume greater than 3 times community<br>average flow                 | \$3.00 per 100 cubic feet |

### B. Penalty

For each event in which a community's flow exceeds three (3) times the community's average flow, the community will pay a \$5,000.00 penalty to the County Agency. The funds will be returned to the community on a dollar per dollar basis for each dollar spent on removing / eliminating inflow and infiltration in their collection system.

## III. CHARGES:

### A. County Capital Improvement Fee

The County will charge a Capital Improvement Fee of \$1,000.00 per unit based upon the "Table of Unit Factors" prior to the issuance of a sanitary connection permit (B-Permit). The County Agency shall collect the fee.

The rates are established pursuant to Act 342 Michigan Public Acts of 1939 as amended.

Dated: 11-3-21

JEFFREY WRIGHT  
Genesee County Drain Commissioner  
The County Agency