

# COLLABORATIVE ILLICIT DISCHARGE ELIMINATION PLAN

*Saginaw Area Storm Water Authority  
Saginaw County, Michigan*



Prepared on behalf of:

## **SAGINAW AREA STORM WATER AUTHORITY**

Including the following members:

### **AGENCIES:**

SAGINAW COUNTY- *Saginaw County Public Works Commissioner (SCPWC)*  
SAGINAW COUNTY BOARD OF COMMISSIONERS  
SAGINAW COUNTY ROAD COMMISSION

### **LOCAL MUNICIPALITIES:**

BRIDGEPORT CHARTER TOWNSHIP  
BUENA VISTA CHARTER TOWNSHIP  
TITTABAWASSEE TOWNSHIP AND SCHOOL DISTRICT  
CARROLLTON TOWNSHIP AND SCHOOL DISTRICT  
CITY OF SAGINAW  
THOMAS TOWNSHIP  
SAGINAW CHARTER TOWNSHIP  
CITY OF ZILWAUKEE

### **EDUCATIONAL INSTITUTIONS:**

BRIDGEPORT-SPAULDING COMMUNITY SCHOOLS  
SAGINAW INTERMEDIATE SCHOOL DISTRICT  
SAGINAW TOWNSHIP COMMUNITY SCHOOLS  
SWAN VALLEY SCHOOLS  
SAGINAW VALLEY STATE UNIVERSITY

Prepared by:



## INTRODUCTION

This collaborative Illicit Discharge Elimination Plan (IDEP) for the Saginaw Area Storm Water Authority (SASWA) has been prepared in accordance with the requirements of the National Pollutant Discharge Elimination System (NPDES) Permit Application for Discharge of Storm Water to Surface Waters of the State from a Municipal Separate Storm Sewer System (MS4). The IDEP is intended to prohibit and effectively eliminate illicit discharges, the discharge of sanitary wastewater, illicit connections and illegal dumping/spills to the separate storm water drainage system. The IDEP will focus on storm water outfalls and point source discharges within the urbanized area limits of Saginaw County, which includes the Midland and Flint urbanized area in Saginaw County, based on the most current Census Data. Illicit discharges originating outside of the SASWA's urbanized boundary are not the responsibility of the SASWA, but will be reported to the Saginaw County Public Health Department and the Saginaw County Public Works Commissioner and/or the Saginaw County Road Commission, with jurisdictional boundaries considered. All aspects of the IDEP will be documented by action and evaluation methods and recorded within the Progress Report submitted to the MDEQ.

The IDEP will be implemented by the consultant's staff and will only involve county agencies and nested jurisdictions on an as needed basis.

The IDEP includes the following sections:

- Definitions
- IDEP Goals
- Legal Authority
- Non-Stormwater Discharges to an MS4
- Outfall and Discharge Points
- Illicit Discharge Identification and Investigation
  - Locating Problem Areas
  - Dry-Weather Screening and Field Observations
  - Finding The Source
- Minimizing Seepage from Septic Systems and Sanitary Sewers
- Responding to Illegal Dumping and Spills
  - Schedule for responding to a complaint
  - Schedule for field screening and source investigations
- Response to Illicit Discharges Once the Source Is Identified
- Preventive Measures
- Training
- Documentation of Metrics and Reporting
- Implementation Schedule
- Measurable Goals
- Appendix Section
  - *Appendix I-SASWA Outfall and Point of Discharge Table*
  - *Appendix II- NPDES Phase II Dry-Weather Outfall and Point of Discharge Inspection Form*
  - *Appendix III- Illicit Discharge/Connection Reporting Forms/Documents*
  - *Appendix IV- Excerpts from Pertinent Codes*

## DEFINITIONS

- **Municipal separate storm sewer system:** A system (including, but not limited to, roads, catch basins, curbs, gutters, parking lots, ditches, storm sewers, conduits, pumping devices, or man-made channels) that is designed or used for collecting or conveying storm water; is not a combined sewer; and is not part of a publicly owned treatment works. The term does not include separate storm water drainage conveyances that serve an individual building or comparable discrete area. The system may convey specified non-storm water discharges as listed in Part I. A.7.a.2. The term includes enclosed drainage systems that are owned or operated by the SASWA member and discharge either to a surface water of the state or to a separate storm water drainage system operated by another public body. It may include orphan or abandoned drains within the Urbanized Area. Open drains that are considered to be surface waters of the state are not considered part of the separate storm sewer system.
- **Illicit discharge:** Any discharge (or seepage) to the separate storm water drainage system that is not composed entirely of storm water or uncontaminated groundwater.
- **Illicit connection:** A physical connection to the separate storm water drainage system that (1) primarily conveys illicit discharges into the system and/or (2) is not authorized or permitted by the local authority (where a local authority requires such authorization or permit).
- **Point of Discharge:** An outfall from a drainage system to waters of the state, or a point where a storm water drainage system discharges into a system operated by another public body. (An MS4 to an MS4 owned or operated by another public body.)
- **Outfall point:** A discharge point from a municipal separate storm sewer system directly to surface waters of the state.
- **Significant illicit discharge:** A discharge that shows evidence of impairing water quality in the receiving water.

## IDEP GOALS

- Find, prioritize, and eliminate illicit discharges and illicit connections identified during dry weather screening activities.
- Minimize infiltration of seepage from sanitary sewers and onsite sewage disposal systems into the separate storm water drainage system.
- Reduce illicit discharges into the separate storm sewer system by educating municipal employees and the general public.
- Implement the regulatory mechanism for the municipality, or county, to eliminate illicit discharges found entering the separate storm sewer system (Saginaw County Public Health Code and Michigan Building and Plumbing Codes).

- Maintain a map of the municipal separate storm sewer system and outfall and point of discharge sources.
- Establish a system to document and report information regarding the IDEP, including complaints, outfall screening, and illicit connections found and removed.
- Determine a method to evaluate the effectiveness of the illicit discharge elimination activities based on the watershed goals.

## **LEGAL AUTHORITY**

The municipal members of the SASWA have adopted or have as commercial / residential building enforcement procedures the following:

- 2012 Michigan Plumbing Code, R 408.30717 Duties and powers of code official; Section 104.1 and 104.5 (code official and right of entry defined),
- 2009 Michigan Residential Code, or
- The International Property Maintenance Code of 2012. Section 104.1 and 104.3 identifies duties of code official and right of entry.

*(See Appendix IV for pertinent excerpts from these codes)*

These administrative procedures when adopted by a community provide the “**right of entry**” for the municipality’s inspector, code enforcement staff or their designee to enter private property if a violation of the code is witnessed, visible, or quantifiable evidence is present to suggest that a violation exists on the property. If access is denied, and evidence of violation is present, then staff will obtain a warrant for entry if necessary.

### **Enforcement Venues for Townships, Cities and Villages:**

PA245-1999 which amended PA230-1972 (the Stille-Derossett-Hale Single State Construction Code Act) established the “Single State Construction Code” whereby the entire state of Michigan is subject to a single “family” of construction codes **without** exception. This means that every portion of the State is subject to the 2012 Michigan Plumbing Code and the 2009 Michigan Residential Code enforced either locally (as an authorized enforcing agency) or by the State Bureau of Construction Codes (BCC).

Since Code Enforcement and Property Maintenance is not a function enabled by PA230-72 and not otherwise mandated by state law, a local governmental unit would have to locally adopt the International Property Maintenance Code (IPMC) to lawfully enforce its provisions. If a municipal member has adopted, by ordinance, the IPMC the member enforces it through its Code Enforcement Program.

Additionally, if the municipality has a Code Enforcement Program a Code Enforcement Log is utilized. The Code Enforcement Log is a tracking mechanism used by communities to track violations and their outcome and will be used by that community as its tracking mechanism.

### **Enforcement Venues for County Agencies:**

The Saginaw County Road Commission (SCRC) and the Saginaw County Public Works Commissioner (SCPWC) do not have ordinance authority; however, the SCPWC has some authority to control water pollution in county drains provided by the state Drain Code of 1956. County Agencies can also use the County's Public Health Code and obtain enforcement through the Public Health Department to obtain compliance in issues which involve public health and safety as it is related to the Illicit Discharge Elimination program.

The following are pertinent excerpts:

### **The Michigan Drain Code Public Act 40 of 1956 states:**

*Sec. 423. (1) A person shall not continue to discharge or permit to be discharged into any county drain or inter-county drain of the state any sewage or waste matter capable of producing in the drain detrimental deposits, objectionable odor nuisance, injury to drainage conduits or structures, or capable of producing such pollution of the waters of the state receiving the flow from the drains as to injure livestock, destroy fish life, or be injurious to public health.*

*(10) Failure to comply with any of the provisions of this section subjects the offender to the penalties described in section 602.*

*Sec. 602. If any person shall willfully or maliciously remove any section or grade stake set along the line of any drain, or obstruct or injure any drain, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine not exceeding \$100.00 and the costs of prosecution, or in default of the payment thereof, by imprisonment in the county jail not exceeding 90 days.*

The SCRC has limited authority under state law to control water pollution in statutory road right-of-ways. When evidence of an illicit discharge to a Road Commission ditch or drain is found, and voluntary correction is not forthcoming, the SCRC will contact the appropriate agency, depending on the nature of the illicit discharge, and work with the Saginaw County Public Works Commissioner, County Health Department, local unit of government, local policing authority and/or the Michigan Department of Environmental Quality (MDEQ) to require elimination. The MDEQ has broad authority to control pollution, either directly or indirectly, to waters of the state provided by Part 31 of Act 451 of 1994.

Additionally, the Saginaw County Health Department has an enforceable County Public Health Code, as follows:

### **Section 2 — Authority, jurisdiction and administration:**

**2.1 Authority.** By virtue of the power vested in the Saginaw County Department of Public Health under Act 368, P.A. 1978, as amended, there are hereby provided regulations affecting the public health, safety, welfare and environmental quality of Saginaw County, including the provisions for violations of said regulations.

**2.2 Jurisdiction.** The Saginaw County Department of Public Health shall have jurisdiction throughout the County of Saginaw, including all cities, villages and townships in the administration and enforcement of these regulations and relevant State Laws including all regulations or amendments hereafter adopted unless otherwise specifically stated.

**2.3 Enforcement.** All premises affected by the requirements of these regulations shall be subject to the inspection by the Health Officer and the Health Officer may collect such samples for laboratory examination, make tests or take such photographs as he deems necessary for the enforcement of these regulations.

**2.4 Right of Entry.** No person shall refuse to permit the Health Officer, after proper identification, to inspect as deemed necessary in the enforcement of this Code, any property, public or private, located in the County of Saginaw for the purpose of obtaining information, conducting surveys or inspections, collecting samples, inspecting sewage disposal or water supply systems, or evaluating a premise to ensure compliance with any permits, standards, codes, regulations, and enforcement actions at reasonable times nor shall any person molest, interfere, or resist the Health Officer in the discharge of his duty.

**2.5 Abatement of Nuisances.** Nothing stated in these regulations shall be construed to limit the power of the Health Officer toward the immediate abatement of a public nuisance or menace to the public health or of a condition, which in the opinion of the Health Officer may become a menace to the health of the community.

**2.6 Interference with Notices.** No person shall remove, mutilate, or conceal any notice or placard posted by the Health Officer, except by written permission of the Health Officer.

**2.7 Validity.** If any section, subsection, clause or phrase of these regulations is for any reason adjudged unconstitutional or invalid, it is hereby provided that the remaining portions of these regulations shall not be affected.

## **CHAPTER II Penalties Section 1 — Penalties**

**1.1** Any person who shall intentionally fail to comply with the provisions of these regulations as set forth in the Code or any part thereof shall be deemed guilty of a misdemeanor and upon conviction thereof shall be punished by a fine not exceeding the sum of \$200 or by imprisonment in the County jail, not exceeding 30 days or both such fine and imprisonment at the discretion of the Court. Each day a violation is permitted to exist shall constitute a separate and distinct violation.

## **CHAPTER IV. – Sewage (wastewater) Disposal Regulations**

### **Under Section 2 - Definitions:**

**2.10 Nuisance.** “Nuisance” shall include but not be limited to any condition where effluent from any sewage disposal facilities is exposed to the surface of the ground or is permitted to drain on or to the surface of the ground, into any ditch, storm sewer, lake or stream, or when the odor, appearance or presence of this material has an obnoxious or detrimental effect on or to the senses or health of persons or when it shall obstruct the comfortable use or sale of adjacent property.

### **Section 6. – Individual Sewage Disposal Systems:**

**6.3** In the event of a failure of an existing onsite sewage disposal system, the Health Officer must be notified of the failure. Upon investigation of the cause of failure, the Health Officer may require repair specifications necessary to correct the problem and upgrade the system to be in compliance with this Code. At the discretion of the Health Officer, modifications to the required isolation distances, materials or size as stated in this Code may be applied if local conditions warrant and in cases where dimensions, site development, features or site suitability create a challenge to comply with the standards of this Code. In such event, modifications will be applied if the Health Officer finds that the public health would not be jeopardized.

### **Section 9 – Sewage of Unknown Origin**

**9.1** Whenever the Health Officer shall determine that improperly treated sewage is flowing or is being discharged from the outlet of any public or private drain into any public drainage system or surface water body so as to create a public health hazard, water pollution or nuisance, he shall notify in writing the person owning, leasing or residing on such premises from which such sewage originates to connect such sewage flow to a sewage disposal system which complies with these regulations. At the end of such reasonable time as specified in the written notice, which has been served on the owner, leasee or resident, the Health Officer shall cause the outlet of such drain carrying sewage to be plugged until such time as the source(s) of sewage have been eliminated or the sewerage system complies with the provisions of this Code.

### **Section 11 – Injunction**

**11.1** Notwithstanding the existence and pursuit of any other remedy, the Health Officer may maintain an action in the name of the County for injunction or other process against any person, firm or corporation to restrain or prevent the construction, enlargement, or alteration of a sewage disposal system without a permit therefore, or the operation or conduct of a residence of a habitable building, structure or premise contrary to this regulation or the discharge of waste actually or potentially unsafe or hazardous to public health, life, property values or the public welfare into public stream, county drain, road ditch or upon the ground surface, creating a health hazard or nuisance.

### **Public Act 451 of 1994 (NREPA) – Part 31 Water Resources**

*324.3103 Department of environmental quality; powers and duties generally; rules; other actions.*

#### **Sec. 3103.**

(1) The department shall protect and conserve the water resources of the state and shall have control of the pollution of surface or underground waters of the state and the Great Lakes, which are or may be affected by waste disposal of any person. The department may make or cause to be made surveys, studies, and investigations of the uses of waters of the state, both surface and underground, and cooperate with other governments and governmental units and agencies in making the surveys, studies, and investigations. The department shall assist in an advisory capacity a flood control district that may be authorized by the legislature. The department, in the public interest, shall appear and present evidence, reports, and other testimony during the

hearings involving the creation and organization of flood control districts. The department shall advise and consult with the legislature on the obligation of the state to participate in the costs of construction and maintenance as provided for in the official plans of a flood control district or inter-county drainage district.

(2) The department shall enforce this part and may promulgate rules as it considers necessary to carry out its duties under this part. However, notwithstanding any rule-promulgation authority that is provided in this part, except for rules authorized under section 3112(6), the department shall not promulgate any additional rules under this part after December 31, 2006.

(3) The department may promulgate rules and take other actions as may be necessary to comply with the federal water pollution control act, 33 USC 1251 to 1387, and to expend funds available under such law for extension or improvement of the state or interstate program for prevention and control of water pollution. This part shall not be construed as authorizing the department to expend or to incur any obligation to expend any state funds for such purpose in excess of any amount that is appropriated by the legislature.

(4) Notwithstanding the limitations on rule promulgation under subsection (2), rules promulgated under this part before January 1, 2007 shall remain in effect unless rescinded.

**History:** 1994, Act 451, Eff. Mar. 30, 1995 ;-- Am. 2004, Act 91, Imd. Eff. Apr. 22, 2004 ;-- Am. 2005, Act 33, Imd. Eff. June 6, 2005

**Compiler's Notes:** For transfer of authority, powers, duties, functions, and responsibilities of the Environmental Assistance Division to the Director of the Michigan Department of Environmental Quality, see E.R.O. No. 1995-16, compiled at MCL 324.99901 of the Michigan Compiled Laws. For transfer of authority, powers, duties, functions, and responsibilities of the Surface Water Quality Division to the Director of the Michigan Department of Environmental Quality, see E.R.O. No. 1995-16, compiled MCL 324.99901 of the Michigan Compiled Laws. For transfer of authority, powers, duties, functions, and responsibilities of the Waste Management Division to the Director of the Michigan Department of Environmental Quality, see E.R.O. No. 1995-16, compiled at MCL 324.99901 of the Michigan Compiled Laws.

**Popular Name:** Act 451

**Popular Name:** NREPA

**Admin Rule:** R 323.1001 et seq. and R 323.2101 et seq. of the Michigan Administrative Code.

## **NON-STORMWATER DISCHARGES TO AN MS4**

No person shall discharge or cause to be discharged into the storm water system, pollutants or waters containing any pollutants, or cause to or contribute to a violation of applicable water quality standards.

### *Acceptable Non-Stormwater Discharges*

The following non-stormwater discharges are not authorized in this document, but do not need to be prohibited by the NPDES permittee in accordance with their NPDES MS4 Permit. Unless the municipality/permittee identifies them as a significant contributor or source of pollutants



entering the MS4, under their jurisdiction these discharges may be allowed to enter the MS4 if approved by the person in charge of the stormwater per the MS4 Permit:

- a) Water line flushing and discharges from potable water sources
- b) Landscape irrigation runoff, lawn watering runoff, and irrigation waters
- c) Diverted stream flows and flows from riparian habitats and wetlands
- d) Rising groundwaters and springs
- e) Uncontaminated groundwater infiltration and seepage
- f) Uncontaminated pumped groundwater, except for groundwater cleanups specifically authorized by NPDES permits
- g) Foundation drains, water from crawl space pumps, footing drains, and basement sump pumps
- h) Air conditioning condensates
- i) Waters from non-commercial car washing
- j) Street wash waters
- k) Dechlorinated swimming pool waters from single, two, or three family residences. (A swimming pool operated by the permittee shall not be discharged to a MS4 or surface waters of the state without specific NPDES permit authorization from the MDEQ.)
- l) Discharges or flows from emergency firefighting activities

## **OUTFALL AND DISCHARGE POINTS**

SASWA has identified their member owned outfall sources and discharge points along with the location of each and the names of all surface waters of the state that receive stormwater discharge from a municipal separate storm sewer system. This compiled list of outfall sources and discharge points includes an identification number relative to location, the type of outlet source, if applicable, the municipality ownership of the MS4, latitude and longitude coordinates, the receiving water that receives the stormwater discharge from the MS4, and the identified priority which has been assigned for dry weather screening purposes. The Storm Sewer System Map has been updated and will continue to be updated on an as needed basis. Any additional outfall sources and/or discharge points will be included within this list and the Storm Sewer System Map will be updated as well to include the necessary changes to the outfall and/or point of discharge sources on an as needed basis. Additionally, newly discovered outfalls and discharge points will be identified in the Progress Report. A table of the Saginaw Area Storm Water Authority's outfalls and discharge points is available in Appendix I of this document.

A copy of the map with outfalls/discharge points is available from the Saginaw Area Storm Water Authority upon request.

## **ILLICIT DISCHARGE IDENTIFICATION AND INVESTIGATION**

### **LOCATING PROBLEM AREAS**

Identifying and eliminating illicit discharges and illicit connections will be completed during the permit cycle using the following techniques:

All permitted outfalls and discharge points for the Saginaw Area Storm Water Authority will be prioritized based on their location to the following areas within the urbanized area:

- Areas with older infrastructure
- Industrial, commercial, or mixed use areas
- Areas with a history of past illicit discharges
- Areas with a history of illegal dumping
- Areas with septic systems
- Areas with older sewer lines or with a history of sewer overflows or cross-connections
- Areas with sewer conversions or historic combined sewer systems
- Areas with poor dry-weather water quality
- Areas with water quality impacts, including waterbodies identified in a Total Maximum Daily Load
- Priority areas applicable to the applicant not identified above

**Priority Area #1:** SASWA member owned MS4 within the urbanized area that discharges to waters of the state and is in an industrial, commercial or mixed use area and has a history of past illegal discharges and dumping. It will be determined which county agency/municipality/school district or university has authority over the MS4 outfall and that agency will take responsibility for further investigation and final outcome of the discharge.

**Priority Area #2:** SASWA member owned MS4 within the urbanized area that discharges to another jurisdiction's MS4 and is in an industrial, commercial or mixed area and has a history of past illegal discharges and dumping. It will be determined which county agency/municipality/school district or university has authority over the MS4 outfall and that agency will take responsibility for further investigation and final outcome of the discharge.

**Priority Area #3:** SASWA member owned MS4 within the urbanized area that discharges to either waters of the state or to another jurisdiction's MS4 and has no past history of illicit discharge or has a land use that is not typically indicative of a higher incident of illicit discharges (for example, residential, open parks, recreational areas, etc.). It will be determined which county agency/municipality/school district or university has authority over the MS4 outfall and that agency will take responsibility for further investigation and final outcome of the discharge.

The Saginaw Area Storm Water Authority will complete dry-weather screening for #1 and #2 priority outfall and point of discharge sources under their jurisdiction in urbanized areas once every five (5) years, or once per permit cycle. After two (2) full years from the date the first SASWA member receives their approved permit, SASWA's appointed consultant, or other appointed designee, will complete dry weather screening; priority #1 outfall and point of discharge sources will be screened first (year three (3) of the permit cycle) and priority #2 outfall and point of discharge sources will be screened second (year four (4) of the permit cycle). Dry-weather screening for priority #3 outfalls under their jurisdiction in urbanized areas will be completed once every ten (10) years. Furthermore, if results after three (3) cycles of dry-weather screening for outfalls or discharge points listed for #1 and #2 priorities warrant no follow-up required and there is no action for further investigations, the priority will be changed to a #3

priority. All outfalls in the Midland UA will be screened by 2021 and prioritized accordingly and assume the above-mentioned rotating schedule. Please refer to the outfall and discharge point list in Appendix I for priority locations.

## **DRY-WEATHER SCREENING AND FIELD OBSERVATIONS**

Dry weather screening in Saginaw, Flint, and Midland UA will not commence until at least forty-eight (48) hours after any rainfall event, but may commence if less than 1/10<sup>th</sup> inch of rain occurred during the previous forty-eight (48) hours. At a minimum, visual and olfactory screening of any dry weather discharge from the storm water outfall and point of discharge sources will be completed. A digital photo record of the outfall/point of discharge will be taken. The minimum data collected from the outfall and point of discharge screening will include information about the following: presence/absence of flow, odor, the structural condition, color, water clarity, deposits, stains, foam, bacterial sheens, trash, floatable materials, and vegetation around the outfall or point of discharge. A follow-up investigation of sources which do not have dry weather flow will be conducted if there is evidence of dry weather discharges or if indicators show a sign that pollution may exist. One of the following follow-up prioritization will be assigned:

- Immediate- Report to appropriate agency and have agency follow-up within one (1) week to check for dry weather flow.
- High- Notify stormwater manager; conduct visual observation within fourteen (14) days to check for dry weather flow.
- Low- Notify stormwater manager; conduct visual observation within thirty (30) days for dry weather flow.

*Note: In follow-up visits, if flow is present, test for indicator parameters listed below. If the results from the test require follow-up, collect additional samples for analysis and follow the steps in “Finding the Source” section below if the source of illicit discharge is unknown. Close out the file if there is no dry weather flow present and there is no indication of pollution.*

If dry weather flow is present, a visual observation will be conducted and an estimate of the flow rate will be made and recorded. Field screening tests will also be performed if flow is observed at an outfall or point of discharge and the source of an illicit discharge is not identified during the field observation. Field screening tests will be completed for indicator parameters such as dissolved oxygen, ammonia, pH, specific conductivity, surfactants, bacteria- *E.coli* only (*only if other parameters warrant for this specific testing for example visual evidence or smell*), chlorine and temperature if there appears to be a significant potential that there is an unauthorized dry weather discharge from the outfall or point of discharge. The field screening parameters will be recorded in a report format and included in the progress report. A follow-up investigation of outfalls and points of discharge with dry weather flow will be conducted based on the following follow-up prioritization (schedule):

- Immediate- Report to appropriate agency and have agency follow-up within one (1) week.
- High- Notify stormwater manager; follow-up within fourteen (14) days.

- Low- Notify stormwater manager; conduct visual observation within thirty (30) days.

*Note: In follow-up visits, if flow is present test for indicator parameters listed above. If the results from the test require follow-up, collect additional samples for analysis and follow the steps in “Finding the Source” section below if the illicit discharge is unknown. Close out the file if there is no dry weather flow present and there is no indication of pollution.*

A report form will document the results of outfall/point of discharge screening and testing. Upon commencement of dry weather screening, a follow-up prioritization will be assigned.

- None- No follow-up required.
- Low- If flow is present, but test results indicate that the discharge is exempt. The outfall or point of discharge will be observed within thirty (30) days to determine if conditions have changed, or if water quality testing is essential.
- High- If flow is present and the water quality indicator parameter results indicate that a follow-up is necessary, but there is no immediate concern. The stormwater manager will be notified and a follow-up investigation within fourteen (14) days is required. Test upstream of the outfall or point of discharge if flow is present until the source is located.
- Immediate- The stormwater manager, or the appropriate agency, will be contacted if immediate action to address the dry weather flow is assigned to the outfall or point of discharge. The location will need to be investigated upon within one (1) week of notification.

All aspects of the IDEP dry-weather screening investigations, including inspection forms and photographs documenting the results of outfall screening and testing, will be documented and any actions, decisions or evaluation methods made while performing field screening efforts will be discussed in the Progress Report submitted to the Michigan Department of Environmental Quality. Please refer to Appendix II for an example of the inspection form. Furthermore, the map of storm water outfalls will be updated to document the findings of any additional outfalls or discharge points during field investigations.

If untreated or partially treated sewage of human origin is found to be discharged from the drainage system, the SASWA will comply with the requirements of Section 324.3112a of Part 31 of Public Act 451 of 1994 as amended, including notification of the MDEQ, local health department, and one or more daily newspapers of general circulation.

## **FINDING THE SOURCE**

The field investigation necessary to *Finding the Source* of illicit discharges will be completed based on the results of the efforts in the *Locating Problem Areas* section of the IDEP whereas the source of an illicit discharge is not identified by field screening. The prioritization for tracing illicit discharges to their source will be based on factors such as whether the area is known to have high bacteria problems or vulnerability to bacterial contamination, significant industrial or commercial development, dense housing without sanitary sewer connections, public notification, or complaints, and the sensitivity of the receiving stream.

The procedures to determine the source of illicit discharges will include the following type of activities:

- Inspection and/or testing the discharges within the upstream separate storm water drainage system.
- Televising the storm sewers or dye testing premises in the vicinity of a suspected illicit connection. Dye testing will not be conducted without prior MDEQ approval, in accordance with Rule 1097 (Rule 323.1097 of the Michigan Administrative Code).
- Investigation of point sources located upstream of outfalls with documented dry weather flow.
- Investigation of complaints, reports, or notification of suspected illicit discharges.
- Distribution of letters to residents and businesses alerting them to the problem that is under investigation and soliciting their assistance in finding the source of an illicit discharge.
- A building-by-building evaluation where a potential illicit connection has been isolated to a small area.

Source investigative procedures are investigative efforts in a waterbody where screening and/ or other monitoring results indicate a potential illicit discharge upstream. Surveys may involve reviewing storm and sanitary system maps, walking or driving open drains upstream, testing catch basins upstream for *E. coli*, surfactants, ammonia, specific conductivity and/or temperature, dye testing, televising or smoke testing. Source investigations can be very resource demanding in an enclosed system. Investigation of the age of infrastructure and land use where illicit discharges may be more likely and the location of discharge points in the area to be investigated is essential before initiating field work. Procedures vary based upon the methods used and will be determined before initiation of investigative activities. **If the discharge is a human health or safety issue the investigation will begin within forty-eight (48) hours of discovery.** Otherwise, schedules and timeframes will be determined on a case by case basis before initiation of investigation activities. When deemed necessary and/or the responsible member of the SASWA has expended all funding and available resources, the MDEQ will be contacted for assistance if the illicit dumping/spill discharges to waters of the state.

## **MINIMIZING SEEPAGE FROM SEPTIC SYSTEMS AND SANITARY SEWERS**

There are some areas in SASWA's urbanized area that are served by onsite sewage disposal systems (OSDS). The SASWA will coordinate its IDEP effort with the Saginaw County Health Department (SCHD) to assist in mitigating any problems found with these OSDS.

It should be noted that many urban areas have very few occurrences of onsite disposal systems within Saginaw Charter Township, Carrollton Township, the City of Zilwaukee and the City of Saginaw. Townships still have some areas of concern, but for the most part these are outside of

the Urbanized Area. Planning is ongoing by municipalities to continue to bring developing rural areas into the existing sanitary sewer infrastructure.

An OSDS, found during the implementation of the IDEP to be infiltrating into a municipal separate storm water drainage system, will be referred to the SCHD. In the unlikely event that the SCHD finds unacceptable seepage, the SASWA will cooperate with them and report to the MDEQ on the finding in the progress report.

At such time that a sanitary sewer system becomes available, the property owner will be required to connect whether or not the OSDS is failing, if ordinances or codes so permit.

The potential for seepage from sanitary sewers into the storm water drainage system will be investigated in the process of *Finding the Source* of illicit discharges. Sanitary sewer overflows or cross-connections to a storm sewer will be corrected as soon as possible when discovered. SASWA will train municipal staff from its membership in identifying failing on-site disposal systems during the ongoing staff training. This will be covered in the training for illicit discharges and spill reporting for each municipal member.

## **RESPONDING TO ILLEGAL DUMPING AND SPILLS**

The Saginaw Area Storm Water Authority (SASWA) through the Saginaw County Public Works Commissioner's Office receives messages reporting illicit discharges/connections or illegal dumping/spills to the storm sewer system in Saginaw County. The Saginaw County Public Works Commissioner refers the incident to the appropriate municipality, school district, agency or university that has jurisdictional responsibility.

### Schedule for responding to a complaint (i.e. illicit discharge/connection or illegal dumping/spill)

Evaluation of an illicit discharge/connection or illegal dumping/spill complaint is very important and shall be initiated within two (2) business days of a complaint being received, if not sooner. The only exception is when the nature of the complaint includes dumping and/or a spill of a potentially hazardous material in which case the response will be as immediate as possible (within forty-eight (48) hours of discovery).

All actions initiated as a result of a complaint shall be recorded as part of the complaint's file until it is resolved and/or closed. Additionally, a log will be kept of all calls in a database established by SASWA.

Proper incident response and disposition forms, shown in Appendix III, must be filled out and distributed to the SASWA member with jurisdiction, the Saginaw County Public Works Commissioner, and the consultant. This must be done within five (5) days of the incident in order to provide time for a response to the MDEQ to cover spill incident reporting. Spill reporting must be completed within ten (10) days of the incident and submitted to the MDEQ as required and directed in the permit. The only exception is when the nature of the complaint includes dumping and/or a spill of a potentially

hazardous material in which case the response will be as immediate as possible (within forty-eight (48) hours of discovery).

The initial response to a complaint shall include referral to the appropriate staff for a field visit to the complaint location. As part of this initial response, staff shall record the following:

- visual observations,
- conversations with the complainer or neighbors in the vicinity of the complaint,
- pictures of the complaint location and/or characteristics, and
- follow-up actions that result.

If, after staff conduct an initial field visit, it is determined that the complaint is not worthy of further response, the reasons for closing the complaint shall be recorded, the complaint shall be closed, and this shall all remain documented in the permittee's complaint files.

#### Schedule for field screening and source investigations

If the initial site visit which results from a complaint warrants performing further field screening and/or source investigations, these actions shall be initiated within seven (7) days of the initial site visit. All field investigations shall be recorded as part of the complaint's file until that complaint has been solved and/or officially closed.

To immediately report any release of any polluting materials from the MS4 to the surface waters or groundwater of the state, unless a determination is made that the release is not in excess of the threshold reporting quantities in the Part 5 Rules, please contact the appropriate MDEQ District office, or if the notice is provided after regular working hours, please call the MDEQ's 24-Hour Pollution Emergency Alerting System at 1-800-292-4706. The IDEP Reporting Procedure can be seen in Appendix III.

### **RESPONSE TO ILLICIT DISCHARGES ONCE THE SOURCE IS IDENTIFIED**

Once the source of an illicit discharge has been confirmed and referred to the proper municipality, school district, agency or university of the SASWA that has jurisdictional responsibility, the SASWA representative, or the SASWA consultant, will use the following procedures to correct the illicit discharge.

The permittee shall correct and/or enforce the correction of illicit discharges within 90 (ninety) days of notification to the property owner or confirmation of source identification **to the maximum extent practicable**. (*Note- This response excludes dumping and/ or a spill of a potentially hazardous material which are high priority and response will be within forty-eight (48) hours of discovery.*) If the SASWA member(s), or the SASWA consultant, decide(s) to modify the following procedure, they will make note of the alternative procedures in their IDEP records and progress reports for their permit.

#### 1. First Notice: Notification of Problem and Correction Needed

Once the source(s) of an illicit discharge is located, within five (5) business days of the confirmation, the SASWA member of jurisdictional responsibility, or SASWA consultant, will

provide the first written notice to the owner of the illicit discharge by registered mail. The first written notice will notify the discharge owner of the illicit discharge, the regulatory authority to require correction, and the potential enforcement actions that will take place if the discharge is uncorrected in ninety (90) days. All notifications will request that the discharge owner contact the permittee regarding plans for correction within ninety (90) days. Tracking of all notifications and documentation of registered mail receipts will be retained by the permittee.

### 2. Second Notice: Forty-Five (45) Days Left to Respond

If forty-five (45) days has passed from the date of the 1<sup>st</sup> written notice and no response has been received by the discharge owner, the second written notice will be sent. The second written notice will remind the discharge owner of the illicit discharge, the prior notice, the regulatory authority to require correction, the potential enforcement actions that will take place if the discharge is uncorrected in forty-five (45) days, and a request for the owner to contact the permittee regarding plans for correction.

### 3. Final Notice

If ninety (90) days has passed from the date of the first written notice, the third written notice will be sent. The third notice will remind the discharge owner of the illicit discharge, the prior notice, the regulatory authority to require correction, and plans to enforce the correction of the illicit discharge.

SASWA will make every reasonable effort to eliminate high priority illicit discharges / connections and illegal spills/dumping as soon as feasibly possible in cooperation with the Saginaw County Public Works Commissioner and the Saginaw County Public Health Department. Problems vary widely in complexity and cost of correction. Some problems can be corrected almost immediately or within 30 (thirty) days, while others may take preparation of detailed drawings and specifications, bidding, and construction. The severity of the problem will also affect the time frame for correction. Some illicit connections almost never have discharges. While these need to be corrected, they do not have the urgency of connections that have continuous discharges.

Please refer to Appendix III for the Saginaw Area Storm Water Authority IDEP Reporting Procedure, Illicit Discharge Report and Investigations Guidelines, Contact Information, an Incident Investigation Report Form Example for documentation purposes and any additional materials used by the SASWA.

## **PREVENTIVE MEASURES**

Mechanisms will be put in place to prevent future illicit discharges and connections. The SASWA will evaluate strategies for prevention of new illicit discharges. Examples of potential preventive measures that will be considered include the following:

- Provide and advertise the availability of recreational vehicle sewage disposal.
- Programs to eliminate sanitary sewer overflows.
- Consideration of potential illicit connections/discharges during site plan review.



- Inspection procedures for new development or redevelopment.
- Training a permittee's personnel in recognizing indications of illicit discharges and how to properly report their observations.
- Training staff to recognize failing on-site treatment systems.

## **TRAINING**

Training will be provided to increase the awareness of the permittee's employees in regard to the goals and provisions of the IDEP. Permittees will train staff who are involved in storm water management related activities, or who have jobs with the potential for witnessing illicit discharges and connections. Staff will be trained at least one (1) time every five (5) years (i.e. once per permit cycle), with various supporting training videos supplied to SASWA members on an ongoing basis, and within the first year of employment. The dates for the training will be determined with the SASWA members after the first SASWA member is issued their approved permit. Additionally, training will begin one (1) year after the first SASWA member is issued their approved permit.

Field personnel will be provided training prior to conducting storm water outfall screening and activities associated with identifying and eliminating the source of unauthorized discharges and illicit connections. Training will include:

- Types of illicit discharges/connections
- Techniques for finding and identifying illicit discharges/connections
- Allowable discharges in an MS4
- Health and safety
- Documentation and reporting procedures
- Use of sampling equipment and other tools
- Outfall and point of discharge mapping
- Visual and olfactory outfall screening procedures
- Chain-of-Custody Record completion
- Proper protocol for sample handling, preparation, and transportation
- Procedures for eliminating illicit discharges/connections

Training will be provided by a registered professional engineer or similar competent person, and include recognition of naturally occurring phenomena and their sources.

### *Municipal / County / Educational Institution Staff Training*

SASWA members will have their staff trained in recognition of illicit connections and spills during the training sessions that SASWA provides for its membership staff.

## **DOCUMENTATION OF METRICS AND REPORTING**

A Progress Report will be submitted to the MDEQ on the implementation status of the IDEP. The progress report will cover all of the decisions, actions, and results performed as part of the IDEP during the reporting period. At a minimum, the progress report will include the following:

- Documentation of any actions taken to eliminate illicit discharges.
- A list of pollutants of concern, the estimated volume and load discharged, and the locations of the discharge into both the MS4 and the receiving water will be provided for significant illicit discharges.
- The status of the program to minimize seepage from sanitary sewers and onsite sewage disposal systems into the MS4.
- Updated outfall and point of discharge source mapping.
- A schedule for elimination of illicit connections that have been identified, but have yet to be eliminated.
- An updated IDEP implementation schedule, if applicable.
- Report on the number of outfall and point of discharge sources screened based on an upstream search from a suspicious outfall outcome.
- An evaluation of the effectiveness of the IDEP program:
  1. Within each progress report the evaluation will include statistics on the number of outfalls and points of discharge that were screened within the timeframe of progress reporting (*Report on the number of outfalls and points of discharge screened on a year by year basis*). Evaluation of overall effectiveness include the following:
    - a. The prioritization process will be evaluated to determine if efforts are being maximized in areas with high illicit discharge potential.
    - b. The effectiveness of using different detection methods.
    - c. The number of discharges and/or quantity of discharges eliminated using different enforcement methods.
    - d. The program efficiency and how often staff are being trained for the IDEP program.
  2. Furthermore, the evaluation will include statistics on the number of illicit discharges / connections and/or illegal spills / dumping eliminated and the number and type of violations that were investigated upon during the progress reporting period.
- Number of municipal or SASWA member staffs attending training on an annual basis in the progress report.
- Evaluations of the training by the recipients.
- Number of contacts with the general population of the county increasing their awareness of the illicit discharge elimination plan.
- Number of illicit connections removed from the overall system in the county.

## **IMPLEMENTATION SCHEDULE**

The implementation schedule for completion of the IDEP is as follows:

- The permittee's currently have legal authority to deal with illicit discharges.
- A program for *Finding the Source* of illicit discharges to the municipal separate storm water drainage system will begin after completion of *Locating Problem Areas*. Significant illicit discharges will be investigated immediately upon discovery.
- A map of outfall and point of discharge sources, reconnaissance locations, and the municipal separate storm water system will be updated on an as needed basis throughout the duration of the permit cycle. Additional outfall sources and point of discharge sources will be added to the list and the maps will be updated; any updates will be included in the Progress Report.
- A progress report will be submitted to the MDEQ. It is impossible to measure the environmental benefit of actions taken to prevent water pollution. Monitoring of outfalls by the consultant or the SCHD will provide data that will be useful in assessing the success of the IDEP process.

## **MEASURABLE GOALS**

- Number of reported illicit discharge reports received, investigated and passed on to the MDEQ or MDEQ 24-Hour Pollution Emergency Alerting System per year basis.
- Review of progress reports and how quickly illicit discharges were documented as being cleaned up.
- Review of the evaluation of the effectiveness of the IDEP program per year basis.

## **APPENDIX SECTION**

**Appendix I**  
*SASWA Outfall and Point of Discharge Table*

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Bridgeport Charter Township**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
BCT1	DPW/Government Center/Fire Department	Cass River	-83.880912	43.356033	1	Outfall
BCT2	Historical Museum	Baker Drain to Cass River	-83.881071	43.356416	1	Outfall

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Bridgeport-Spaulling Community School District**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
BSCSD1	Thomas White Elementary	Branch #1 of Keogan Sieman Drain	-83.903934	43.370593	2	Outfall
BSCSD2	Martin Atkins Middle School	Branch #1 of Keogan Sieman Drain	-83.903934	43.370593	2	Outfall
BSCSD3	High School	McGrandy Drain	-83.867447	43.354797	2	Outfall
BSCSD4	High School	Baker Drain	-83.869853	43.359236	2	Outfall
BSCSD5	Bus Garage	Baker Drain	-83.869394	43.362606	2	Outfall

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Buena Vista Charter Township**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
BVCT1	DPW	Koehler Tile Drain (SCPWC)	-83.896554	43.410394	2	Point of Discharge
BVCT2	Township Offices	Koehler Tile Drain (SCPWC)	-83.896053	43.415908	2	Point of Discharge
BVCT3	Fire Department	Koehler Tile Drain (SCPWC)	-83.894779	43.424383	2	Point of Discharge
BVCT4	Community Center	Koehler Tile Drain (SCPWC)	-83.896368	43.408040	2	Point of Discharge
BVCT5	Wastewater Treatment Plant	Koehler Tile Drain (SCPWC)	-83.894244	43.467391	2	Point of Discharge- (need to field verify)



**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE  
Carrollton Township**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
CARR1	High School	Saginaw River via SCPWC MS4	-83.938088	43.464260	2	Point of Discharge
CARR2	High School	Saginaw River via SCPWC MS4	-83.935644	43.463485	2	Point of Discharge
CARR3	High School	Saginaw River via SCPWC MS4	-83.935429	43.463263	2	Point of Discharge
CARR4	Elementary/Middle School	Universal Drain via SCPWC MS4	-83.940975	43.462604	2	Point of Discharge
CARR5	Elementary/Middle School	Universal Drain via SCPWC MS4	-83.942820	43.461697	2	Point of Discharge
CARR6	Elementary/Middle School	Universal Drain via SCPWC MS4	-83.944248	43.461582	2	Point of Discharge
CARR7	Sherman Park	Saginaw River via SCPWC MS4	-83.926229	43.466170	2	Point of Discharge
CARR8	Hanchett Park	Saginaw River via SCPWC MS4	-83.952416	43.458067	2	Point of Discharge
CARR9	Stoker Park	Saginaw River via SCPWC MS4	-83.947864	43.447295	2	Point of Discharge
CARR10	Fire Department	Saginaw River via SCPWC MS4	-83.934958	43.453401	2	Point of Discharge

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE****City of Saginaw**

<b>Source ID</b>	<b>Location</b>	<b>Receiving Waters</b>	<b>Longitude (W)</b>	<b>Latitude (N)</b>	<b>Priority Area</b>	<b>Source</b>
CS1	Celebration Park	Tittabawassee River	-83.963093	43.412620	1	Outfall
CS2	Ojibway Island	Tittabawassee River	-83.959202	43.416528	1	Outfall
CS3	Crayola Park	Tittabawassee River	-83.962748	43.413450	1	Outfall
CS4	DPW	Lake Linton	-83.950359	43.419084	1	Outfall
CS5	DPW	Lake Linton	-83.950116	43.419342	1	Outfall
CS6	City of Saginaw	Tittabawassee River	-83.965128	43.402280	1	Outfall
CS7	City of Saginaw	Tittabawassee River	-83.967920	43.402469	1	Outfall

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Saginaw County Public Works Commissioner**

Source ID	Municipality	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source	Additional Notes
SCPWC1	Thomas Township	Scholtz and O'Hearn Drain	-84.077417	43.415953	1	Outfall	
SCPWC2	Bridgeport Charter Township	Baker Drain (Baker Drain-Tile to Baker Drain-Open)	-83.880885	43.356225	1	Outfall	
SCPWC3	Carrollton Township	Saginaw Zilwaukee Drain	-83.941572	43.475964	1	Outfall	
SCPWC4	Carrollton Township	Saginaw River	-83.934053	43.451826	1	Outfall	
SCPWC5	Buena Vista Township	Saginaw River (Koehler Drain)	-83.890349	43.473205	1	Outfall	
SCPWC6	Thomas Township	Garey Drain	-84.052141	43.402794	1	Outfall	
SCPWC7	Thomas Township	Scholtz and O'Hearn Drain	-84.080443	43.412367	1	Outfall	
SCPWC8	Saginaw Charter Township	Seidel Drain	-84.034672	43.41141	1	Outfall	
SCPWC9	Bridgeport Charter Township	Cass River (Buckhardt Drain)	-83.888529	43.357963	1	Outfall	
SCPWC10	Bridgeport Charter Township	Branch No. 1 of Keogan-Sieman Drain	-83.911246	43.371355	1	Outfall	
SCPWC11	Bridgeport Charter Township	Baker Drain (Dixie Highway Relief Tile Drain)	-83.880867	43.356247	1	Outfall	
SCPWC12	Bridgeport Charter Township	Bridgeport Drain (Tile) to Towerline Tile Drain	-83.875735	43.362792	2	Point of Discharge	
SCPWC13	Bridgeport Charter Township	Bridgeport Drain (Tile) to Bridgeport Drain (Open)	-83.87573	43.362508	1	Outfall	
SCPWC14	Bridgeport Charter Township	Cass River (Bunyan Drain (Tile))	-83.883659	43.358821	1	Outfall	
SCPWC15	Kochville Township	Kochville & Branches Intercounty Drain- Branch 1 of the South Branch (Century Park Tile Drain)	-83.9559	43.487053	1	Outfall	
SCPWC16	Buena Vista Township	Dieckmann Drain (Tile) to Dieckmann Drain (Open)	-83.906673	43.450862	1	Outfall	
SCPWC17	Bridgeport Charter Township	King Road Drain	-83.897678	43.381059	1	Outfall	
SCPWC18	Bridgeport Charter Township	King Road Drain	-83.897588	43.380896	1	Outfall	
SCPWC19	Thomas Township	Tittabawassee River (Hagerl Tile Drain)	-84.073695	43.448696	1	Outfall	
SCPWC20	Buena Vista Township	Gage No 1 Drain (Hess Street Tile Drain)	-83.886877	43.400482	1	Outfall	
SCPWC21	Thomas Township	Williams Creek Drain (Kiefer Tile Drain)	-84.126307	43.408713	1	Outfall	
SCPWC22	Bridgeport Charter Township	King Street Drain	-83.908811	43.379412	1	Outfall	
SCPWC23	Kochville Township	Kochville & Branches Intercounty Drain- Branch No. 1 of the South Branch (Meijer Drain)	-83.979508	43.487195	1	Outfall	
SCPWC24	Thomas Township	Metzler Tile Drain	-84.048612	43.417863	1	Outfall	
SCPWC25	Tittabawassee Township	Tittabawassee River (New Freeland Tile Drain)	-84.120888	43.519453	1	Outfall	
SCPWC26	Bridgeport Charter Township	Northeast Branch of Baker Drain (Tile to Open)	-83.856558	43.36902	1	Outfall	
SCPWC27	Thomas Township	Williams Creek Drain (Oldenburg Drain (Tile))	-84.115933	43.405083	1	Outfall	
SCPWC28	Saginaw Charter Township	Winterstein Drain (Orchard Acres Branch Dr.)	-84.031748	43.421283	1	Outfall	
SCPWC29	Tittabawassee Township	Ostrander Drain(Tile) to Ostrander Drain(Open)	-84.120092	43.52569	1	Outfall	
SCPWC30	Buena Vista Township	SCRC MS4 (Pubanz Tile Drain)	-83.903824	43.400282	2	Point of Discharge	
SCPWC31	Thomas Township	Reineke Drain Extension Drain	-84.06197	43.435341	1	Outfall	
SCPWC32	Bridgeport Charter Township	Richmond Drain (Tile) to Bridgeport Drain (Tile)	-83.8791	43.357926	2	Point of Discharge	
SCPWC33	Saginaw Charter Township	Seidel Drain (Tile) to Seidel Drain (Open)	-84.021293	43.41418	1	Outfall	
SCPWC34	Saginaw Charter Township	Universal Drain	-83.989598	43.458275	1	Outfall	
SCPWC35	Saginaw Charter Township	Universal Drain	-83.956362	43.465391	1	Outfall	

SCPWC36	Tittabawassee Township	Webster Drain (Tile) to Webster Drain (Open)	-84.125762	43.535362	1	Outfall	
SCPWC37	Saginaw Charter Township	Saginaw Zilwaukee Drain	-83.980459	43.476183	1	Outfall	
SCPWC38	Saginaw Charter Township	Saginaw Zilwaukee Drain	-83.977568	43.476183	1	Outfall	
SCPWC39	Thomas Township	Wiltse Drain	-84.114322	43.453777	1	Outfall	
SCPWC40	Saginaw Charter Township	Universal Drain (Tile to Open Drain)	-83.961208	43.465208	1	Outfall	
SCPWC41	Saginaw Charter Township	Saginaw Zilwaukee Drain (Tile to Open Drain)	-83.96544	43.478126	1	Outfall	
SCPWC42	Bridgeport Charter Township	Dixie Highway Relief Drain (Tile) to Bridgeport Drain (Tile)	-83.879428	43.357504	2	Point of Discharge	
SCPWC43	Bridgeport Charter Township	Dixie Highway Relief Drain (Tile) to Bridgeport Drain (Tile)	-83.879493	43.357546	2	Point of Discharge	
SCPWC44	Bridgeport Charter Township	Dixie Highway Relief Drain (Tile) to Baker Drain (Tile)	-83.876988	43.356398	2	Point of Discharge	
SCPWC45	Bridgeport Charter Township	Buckhardt Drain (Dixie Highway Relief Drain to Buckhardt Drain)	-83.890529	43.3685	2	Point of Discharge	
SCPWC46	Bridgeport Charter Township	Branch No. 1 of Keogan-Sieman Drain	-83.911184	43.367166	1	Outfall	
SCPWC47	Buena Vista Township	Saginaw River	-83.908054	43.470161	1	Outfall	
SCPWC48	Buena Vista Township	Dieckman Drain (Holland Grove Tile to Open Drain)	-83.906845	43.418339	1	Outfall	
SCPWC49	Kochville Township	Kochville & Branches Intercounty Drain- Branch No. 1 of the South Branch (Meijer Drain)	-83.979565	43.487191	1	Outfall	
SCPWC50	Bridgeport Charter Township	Buckhardt Drain (Branch No. 2 of Buckhardt Drain)	-83.892764	43.371599	2	Point of Discharge	
SCPWC51	Bridgeport Charter Township	Buckhardt Drain (Polzin Br. Of Buckhardt Drain)	-83.892798	43.369835	2	Point of Discharge	
SCPWC52	Bridgeport Charter Township	Buckhardt Drain (Branch No. 1 of Buckhardt Drain)	-83.889239	43.362697	2	Point of Discharge	
SCPWC53	Kochville Township	Kochville & Branches Intercounty Drain (South Branch) - FSB Tile	-83.967854	43.49437	1	Outfall	
SCPWC54	Bridgeport Charter Township	King Rd. Drain	-83.914457	43.379199	1	Outfall	
SCPWC55	Bridgeport Charter Township	Lull Drain	-83.915898	43.3894	1	Outfall	
SCPWC56	Bridgeport Charter Township	Leidlgin Drain	-83.916323	43.37378	1	Outfall	
SCPWC57	Bridgeport Charter Township	King Rd. Drain	-83.884186	43.386492	1	Outfall	
SCPWC58	Bridgeport Charter Township	King Rd. Drain	-83.886528	43.386556	1	Outfall	
SCPWC59	Carrollton Township	Universal Drain	-83.939864	43.468061	1	Outfall	
SCPWC60	Carrollton Township	Universal Drain	-83.944225	43.465876	1	Outfall	
SCPWC61	Carrollton Township	Universal Drain	-83.946344	43.465362	1	Outfall	
SCPWC62	Saginaw Charter Township	Sidel Drain	-84.025513	43.409553	1	Outfall	
SCPWC63	Saginaw Charter Township	Winterstein Drain	-84.031181	43.422632	1	Outfall	
SCPWC64	Saginaw Charter Township	Winterstein Drain	-84.031316	43.423365	1	Outfall	
SCPWC65	Saginaw Charter Township	Winterstein Drain	-84.029685	43.425554	1	Outfall	
SCPWC66	Saginaw Charter Township	Detention basin	-84.030246	43.432484	1	Outfall	Need to verify outlet
SCPWC67	Saginaw Charter Township	Detention basin	-84.030268	43.433818	1	Outfall	Need to verify outlet
SCPWC68	Saginaw Charter Township	Ismond Drain	-84.044919	43.4296	1	Outfall	
SCPWC69	Saginaw Charter Township	Amanda Drain	-84.044543	43.43253	1	Outfall	
SCPWC70	Saginaw Charter Township	Horgan Drain	-84.036946	43.439808	1	Outfall	
SCPWC71	Saginaw Charter Township	Horgan Drain (10")	-84.036956	43.445152	1	Outfall	
SCPWC72	Saginaw Charter Township	Horgan Drain (21")	-84.03693	43.446033	1	Outfall	
SCPWC73	Saginaw Charter Township	Horgan Drain (10")	-84.036931	43.447034	1	Outfall	
SCPWC74	Saginaw Charter Township	Tittabawassee River	-84.046523	43.438313	1	Outfall	
SCPWC75	Saginaw Charter Township	Tittabawassee River (Otto Drain outlet)	-84.049141	43.442019	1	Outfall	

SCPWC76	Saginaw Charter Township	Detention basin	-84.055163	43.449487	1	Outfall	Need to verify outlet
SCPWC77	Saginaw Charter Township	Branch of Kastorf Drain	-84.046041	43.451629	1	Outfall	
SCPWC78	Saginaw Charter Township	Branch of Kastorf Drain	-84.047126	43.451963	1	Outfall	
SCPWC79	Saginaw Charter Township	Tittabawassee, Kochville, & Saginaw Drain	-84.056847	43.457977	1	Outfall	Need to verify outlet
SCPWC80	Saginaw Charter Township	Open ditch	-84.089561	43.476713	1	Outfall	Need to verify outlet/verify if county drain
SCPWC81	Saginaw Charter Township	Universal Drain (30")	-84.019841	43.458405	1	Outfall	
SCPWC82	Saginaw Charter Township	Universal Drain (24")	-84.019917	43.458472	1	Outfall	
SCPWC83	Saginaw Charter Township	Universal Drain (27")	-84.019871	43.458495	1	Outfall	
SCPWC84	Saginaw Charter Township	Universal Drain (30")	-84.015368	43.458403	1	Outfall	
SCPWC85	Saginaw Charter Township	Universal Drain	-84.014653	43.458438	1	Outfall	
SCPWC86	Saginaw Charter Township	Universal Drain	-84.013491	43.458428	1	Outfall	
SCPWC87	Saginaw Charter Township	Universal Drain	-84.01227	43.45844	1	Outfall	
SCPWC88	Saginaw Charter Township	Universal Drain	-84.011639	43.458445	1	Outfall	
SCPWC89	Saginaw Charter Township	Universal Drain	-84.010656	43.458431	1	Outfall	
SCPWC90	Saginaw Charter Township	Universal Drain	-84.005287	43.458346	1	Outfall	
SCPWC91	Saginaw Charter Township	Universal Drain	-84.002314	43.458322	1	Outfall	
SCPWC92	Saginaw Charter Township	Universal Drain	-83.995358	43.458284	1	Outfall	
SCPWC93	Saginaw Charter Township	Universal Drain	-83.990706	43.458268	1	Outfall	
SCPWC94	Saginaw Charter Township	Universal Drain	-83.987267	43.458254	1	Outfall	
SCPWC95	Saginaw Charter Township	Universal Drain	-83.986162	43.458227	1	Outfall	
SCPWC96	Saginaw Charter Township	Universal Drain	-83.984703	43.458247	1	Outfall	
SCPWC97	Saginaw Charter Township	Universal Drain	-83.983643	43.458223	1	Outfall	
SCPWC98	Saginaw Charter Township	Universal Drain	-83.983643	43.458223	1	Outfall	
SCPWC99	Saginaw Charter Township	Universal Drain	-83.982318	43.458214	1	Outfall	
SCPWC100	Saginaw Charter Township	Universal Drain	-83.981174	43.458218	1	Outfall	
SCPWC101	Saginaw Charter Township	Universal Drain	-83.980783	43.458144	1	Outfall	
SCPWC102	Saginaw Charter Township	Universal Drain	-83.978402	43.458207	1	Outfall	
SCPWC103	Saginaw Charter Township	Universal Drain	-83.976016	43.458207	1	Outfall	
SCPWC104	Saginaw Charter Township	Elmer Drain	-83.961151	43.472427	1	Outfall	
SCPWC105	Saginaw Charter Township	Universal Drain	-83.959232	43.458112	1	Outfall	
SCPWC106	Saginaw Charter Township	Saginaw Zilwaukee Drain	-83.987303	43.476174	1	Outfall	
SCPWC107	Saginaw Charter Township	Saginaw Zilwaukee Drain	-83.988957	43.476169	1	Outfall	
SCPWC108	Saginaw Charter Township	Saginaw Zilwaukee Drain	-84.003165	43.472719	1	Outfall	
SCPWC109	Saginaw Charter Township	Saginaw Zilwaukee Drain	-84.004681	43.472669	1	Outfall	
SCPWC110	Saginaw Charter Township	Kastorf Drain	-84.033963	43.471448	1	Outfall	
SCPWC111	Saginaw Charter Township	Tittabawassee, Kochville, and Saginaw Drain (18")	-84.051768	43.464974	1	Outfall	
SCPWC112	Saginaw Charter Township	Tittabawassee, Kochville, and Saginaw Drain	-84.051757	43.468169	1	Outfall	
SCPWC113	Thomas Township	Weigner Drain, Tittabawassee River	-84.048375	43.411539	1	Outfall	
SCPWC114	Thomas Township	Monk Tile, Tittabawassee River	-84.048084	43.412916	1	Outfall	
SCPWC115	Thomas Township	Scholtz and O'Hearn Drain	-84.0788	43.414157	1	Outfall	
SCPWC116	Thomas Township	Branch No. 1 of No. 3 Drain	-84.139859	43.394974	1	Outfall	

SCPWC117	Thomas Township	Branch No. 1 of No. 3 Drain	-84.136006	43.394945	1	Outfall	
SCPWC118	Thomas Township	Reineke Drain	-84.071512	43.426593	1	Outfall	
SCPWC119	Thomas Township	Liskow Tiled Drain	-84.099784	43.429127	1	Outfall	
SCPWC120	Thomas Township	Reineke Drain	-84.067394	43.426648	1	Outfall	
SCPWC121	Thomas Township	Reineke Drain	-84.062782	43.427041	1	Outfall	
SCPWC122	Thomas Township	Winchester Farms Branch Drain	-84.062063	43.4350917	1	Outfall	
SCPWC123	Thomas Township	Hoffman Branch Drain	-84.094896	43.45205	1	Outfall	
SCPWC124	Thomas Township	Detention Outlet, Wolgast Branch of Swan Creek	-84.096756	43.417629	1	Outfall	
SCPWC125	Thomas Township	Wurtzel Tile Drain	-84.117845	43.449283	1	Outfall	
SCPWC126	Tittabawassee Township	Ralph Drain	-84.109412	43.5175133	1	Outfall	
SCPWC127	Tittabawassee Township	Parker Swamp Drain	-84.128832	43.51863	1	Outfall	
SCPWC128	Tittabawassee Township	Trickey Drain	-84.161288	43.53236	1	Outfall	
SCPWC129	Tittabawassee Township	Trickey Drain	-84.162403	43.53406	1	Outfall	
SCPWC130	Thomas Township	Reineke Drain	-84.062283	43.427847	2	Outfall	
SCPWC131	Thomas Township	Wolgast Branch of Swan Creek Drain	-84.089973	43.419698	1	Outfall	
SCPWC132	Thomas Township	Swan Creek	-84.091224	43.410312	1	Outfall	
SCPWC133	Thomas Township	Wiltse Drain	-84.104799	43.466586	1	Outfall	
SCPWC134	Kochville Township	Kochville & Branches Intercounty Drain (Leuenberger Drain-Tile)	-83.953742	43.49613	1	Outfall	
SCPWC135	Buena Vista Township	Diechmann Drain	-83.906631	43.453969	1	Outfall	
SCPWC136	Bridgeport	Herman Drain Ext. of Branch of King Road Drain	-83.87861	43.37618	1	Outfall	
SCPWC137	Bridgeport	Herman Drain Ext. of Branch of King Road Drain	-83.88885	43.376992	1	Outfall	
SCPWC138	Bridgeport	Leidlein Drain	-83.916967	43.373613	1	Outfall	
SCPWC139	Saginaw Charter Township	Center Road Drain	-84.014613	43.40043	1	Outfall	Pump Station Location
SCPWC140	Saginaw Charter Township	Tittabawassee River (Gempel Tile Drain)	-84.003259	43.39333	1	Outfall	
SCPWC141	City of Saginaw	Saginaw River	-83.943589	43.443208	1	Outfall	
SCPWC142	Saginaw Charter Township	Saginaw Zilwaukee Drain	-83.963477	43.478129	1	Outfall	Field Verify
SCPWC143	Saginaw Charter Township	Saginaw Zilwaukee Drain	-83.963477	43.478129	1	Outfall	Field Verify

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Saginaw County Road Commission**

<b>Drain #</b>	<b>Location</b>	<b>Receiving Waters</b>	<b>Longitude (W)</b>	<b>Latitude (N)</b>	<b>Priority Area</b>
SCRC 1	Kochville Township	Kochville Drain via SCRC Ditch	-83.96860	43.49433	2
SCRC 2	James Township	Union Drain	-84.05185	43.39725	3
SCRC 3	Saginaw Township	Tittabawassee River via Unamed Trib.	-84.08970	43.48109	3
SCRC 4	Tittabawassee Township	Unamed Trib. of Tittabawassee River	-84.09091	43.50508	3
SCRC 5	Saginaw Township	Unamed Trib. of Tittabawassee River	-84.08167	43.47022	3
SCRC 6	Saginaw Township	Tittabawassee River	-84.08239	43.46628	3
SCRC 7	Bridgeport Township	Cass River	-83.88085	43.35622	1
SCRC 8	Bridgeport Township	Cass River	-83.88083	43.35626	1
SCRC 9	Bridgeport Township	Cass River	-83.88225	43.35839	1
SCRC 10	Bridgeport Township	Cass River	-83.88307	43.35890	1
SCRC 11	Bridgeport Township	Cass River via Bridgeport Drain	-83.87573	43.36253	3
SCRC 12	Bridgeport Township	Keogan Sieman Drain	-83.89886	43.36652	3
SCRC 13	Bridgeport Township	Northeast Branch of Baker Drain	-83.85664	43.36897	3
SCRC 14	Bridgeport Township	Northeast Branch of Baker Drain	-83.85661	43.36900	3
SCRC 15	Bridgeport Township	Northeast Branch of Baker Drain	-83.85664	43.36904	3
SCRC 16	Bridgeport Township	Branch Of Bunyan Drain via SCRC Ditch	-83.87605	43.37151	3
SCRC 17	Bridgeport Township	Liedlein Drain	-83.91729	43.37359	3
SCRC 18	Bridgeport Township	Liedlein Drain	-83.91633	43.37378	3
SCRC 19	Bridgeport Township	Herman Drain	-83.87842	43.37523	3
SCRC 20	Bridgeport Township	King Street Drain via SCRC Ditch	-83.93525	43.37728	3
SCRC 21	Bridgeport Township	King Street Drain via SCRC Ditch	-83.87622	43.37749	3
SCRC 22	Bridgeport Township	King Street Drain	-83.91446	43.37920	3
SCRC 23	Bridgeport Township	Branch No.1 Kind Road Drain	-83.89103	43.37920	3
SCRC 24	Bridgeport Township	Branch No.1 Kind Road Drain	-83.89091	43.37942	3
SCRC 25	Bridgeport Township	King Street Drain	-83.90665	43.38136	3
SCRC 26	Bridgeport Township	King Street Drain	-83.90463	43.38226	3
SCRC 27	Bridgeport Township	King Street Drain	-83.90128	43.38297	1
SCRC 28	Bridgeport Township	Lull Drain via SCRC Ditch	-83.92561	43.38490	3
SCRC 29	Spaulding Township	Lull Drain	-83.93575	43.38548	3
SCRC 30	Bridgeport Township	King Street Drain	-83.88645	43.38650	3
SCRC 31	Bridgeport Township	Lull Drain	-83.93037	43.38765	1
SCRC 32	Bridgeport Township	Lull Drain via SCRC Ditch	-83.91589	43.38776	3
SCRC 33	Bridgeport Township	Lull Drain via Unamed Trib.	-83.91618	43.39298	3
SCRC 34	Bridgeport Township	Lull Drain via SCRC Ditch	-83.92667	43.39316	2
SCRC 35	Buena Vista Township	Boulton Drain	-83.87710	43.39563	1

SCRC 36	Buena Vista Township	Boulton Drain	-83.87710	43.39563	3
SCRC 37	Buena Vista Township	Detention Pond	-83.90187	43.39621	1
SCRC 38	Buena Vista Township	Boulton Drain	-83.87707	43.39656	1
SCRC 39	Buena Vista Township	Gage No.1 Extension Drain	-83.88680	43.40045	3
SCRC 40	Thomas Township	Garey Drain	-84.05534	43.40145	3
SCRC 41	James Township	Garey Drain	-84.05193	43.40320	3
SCRC 42	Saginaw Township	Tittabawassee River	-84.03149	43.40354	3
SCRC 43	Thomas Township	Scholtz & O'Hearn Drain	-84.07877	43.40888	1
SCRC 44	Thomas Township	Tittabawassee River	-84.04814	43.40993	1
SCRC 45	Thomas Township	Companion Drain	-84.06410	43.41035	3
SCRC 46	Thomas Township	Companion Drain via Detention Basin	-84.06274	43.41113	3
SCRC 47	Saginaw Township	Unnamed Trib. of Tittabawassee River	-84.03647	43.41150	3
SCRC 48	Saginaw Township	Unnamed Trib. of Tittabawassee River	-84.03612	43.41177	3
SCRC 49	Saginaw Township	Unnamed Trib. of Tittabawassee River	-84.03760	43.41198	3
SCRC 50	Thomas Township	Scholtz & O'Hearn Drain	-84.08055	43.41233	3
SCRC 51	Thomas Township	Scholtz & O'Hearn Drain	-84.08619	43.41240	3
SCRC 52	Thomas Township	Scholtz & O'Hearn Drain	-84.08547	43.41328	3
SCRC 53	Thomas Township	Scholtz & O'Hearn Drain	-84.07752	43.41347	1
SCRC 54	Thomas Township	Companion Drain	-84.06706	43.41372	1
SCRC 55	Thomas Township	Swan Creek via MDOT Ditch	-84.10863	43.41636	2
SCRC 56	Thomas Township	Scholtz & O'Hearn Drain	-84.07705	43.41689	1
SCRC 57	Thomas Township	Tittabawasse River via Metzler Tile Drain	-84.05186	43.41771	1
SCRC 58	Thomas Township	Scholtz & O'Hearn Drain	-84.07697	43.41881	1
SCRC 59	Thomas Township	Scholtz & O'Hearn Drain	-84.07702	43.41882	1
SCRC 60	Thomas Township	Wolgast Branch of Swan Creek Drain	-84.09139	43.41909	1
SCRC 61	Thomas Township	Wolgast Branch of Swan Creek Drain	-84.09139	43.41948	3
SCRC 62	Thomas Township	Wolgast Branch of Swan Creek Drain	-84.08959	43.41977	3
SCRC 63	Thomas Township	Wolgast Branch of Swan Creek Drain	-84.08846	43.41977	3
SCRC 64	Thomas Township	Wolgast Branch of Swan Creek Drain via Unnamed Ditch	-84.08581	43.42045	3
SCRC 65	Thomas Township	Reineke Drain	-84.07550	43.42312	3
SCRC 66	Thomas Township	Reineke Drain	-84.07401	43.42314	3
SCRC 67	Thomas Township	Reineke Drain	-84.07617	43.42316	3
SCRC 68	Thomas Township	Reineke Drain	-84.07654	43.42321	3
SCRC 69	Thomas Township	Swan Creek	-84.10535	43.42340	3
SCRC 70	Saginaw Township	Winterstein Drain	-84.03116	43.42348	3
SCRC 71	Thomas Township	Liskow Drain	-84.09727	43.42520	3
SCRC 72	Saginaw Township	Winterstein Drain	-84.02966	43.42518	1
SCRC 73	Thomas Township	Liskow Drain	-84.09785	43.42649	3
SCRC 74	Thomas Township	Reineke Drain	-84.06747	43.42655	3



SCRC 75	Thomas Township	Reineke Drain	-84.07066	43.42657	3
SCRC 76	Thomas Township	Reineke Drain	-84.07147	43.42661	3
SCRC 77	Thomas Township	Reineke Drain	-84.06742	43.42661	3
SCRC 78	Thomas Township	Reineke Drain	-84.07034	43.42664	3
SCRC 79	Saginaw Township	Ismond Drain via Ditch	-84.03878	43.42668	3
SCRC 80	Thomas Township	Liskow Drain	-84.09801	43.42694	3
SCRC 81	Thomas Township	Reineke Drain	-84.06279	43.42702	3
SCRC 82	Thomas Township	Reineke Drain	-84.06672	43.42715	3
SCRC 83	Thomas Township	Liskow Drain	-84.09894	43.42841	3
SCRC 84	Thomas Township	Reineke Drain via SCRC Ditch	-84.06426	43.43015	3
SCRC 85	Thomas Township	Reineke Drain	-84.06181	43.43028	3
SCRC 86	Thomas Township	Liskow Drain	-84.09788	43.43044	3
SCRC 87	Saginaw Township	Amanda Drain	-84.04452	43.43253	1
SCRC 88	Thomas Township	Reineke Drain	-84.06189	43.43380	3
SCRC 89	Thomas Township	Reineke Drain	-84.06205	43.43509	3
SCRC 90	Thomas Township	Reineke Drain via Unamed Branch	-84.06670	43.43604	3
SCRC 91	Buena Vista Township	Koehler Tile Drain via MDOT Ditch	-83.89158	43.43595	1
SCRC 92	Thomas Township	Tittabawassee River	-84.06042	43.43746	3
SCRC 93	Buena Vista Township	Gage No.1 Drain	-83.88609	43.44550	1
SCRC 94	Saginaw Township	Mershon Drain	-83.95573	43.44631	3
SCRC 95	Thomas Township	Hagerl Tile Drain via SCRC Ditch	-84.07402	43.44712	3
SCRC 96	Buena Vista Township	Gage No.1 Drain	-83.88610	43.44816	1
SCRC 97	Thomas Township	Swan Creek	-84.11768	43.44903	3
SCRC 98	Buena Vista Township	Dieckman Drain	-83.90666	43.45085	1
SCRC 99	Saginaw Township	Branch of Kastorf Drain	-84.04609	43.45162	3
SCRC 100	Saginaw Township	Branch of Kastorf Drain	-84.04602	43.45164	1
SCRC 101	Saginaw Township	Branch of Kastorf Drain	-84.04601	43.45167	3
SCRC 102	Thomas Township	Branch of Hoffman Drain	-84.09491	43.45200	3
SCRC 103	Saginaw Township	Branch of Kastorf Drain	-84.04728	43.45205	3
SCRC 104	Buena Vista Township	Koehler Drain	-83.89641	43.45233	1
SCRC 105	Thomas Township	Wiltse Drain	-84.11501	43.45403	3
SCRC 106	Thomas Township	Wiltse Drain	-84.11358	43.45608	3
SCRC 107	Thomas Township	Wiltse Drain	-84.11353	43.45701	3
SCRC 108	Saginaw Township	Universal Drain	-83.98078	43.45818	3
SCRC 109	Saginaw Township	Universal Drain	-83.98346	43.45820	3
SCRC 110	Saginaw Township	Universal Drain	-83.98943	43.45823	3
SCRC 111	Saginaw Township	Universal Drain	-83.97805	43.45820	3
SCRC 112	Saginaw Township	Universal Drain	-84.00083	43.45828	3
SCRC 113	Saginaw Township	Universal Drain	-84.00101	43.45828	3

SCRC 114	Saginaw Township	Universal Drain	-83.95916	43.45815	1
SCRC 115	Saginaw Township	Universal Drain	-83.98229	43.45823	3
SCRC 116	Saginaw Township	Universal Drain	-83.98346	43.45823	3
SCRC 117	Saginaw Township	Universal Drain	-83.98470	43.45824	3
SCRC 118	Saginaw Township	Universal Drain	-83.98117	43.45823	3
SCRC 119	Saginaw Township	Universal Drain	-83.99788	43.45828	3
SCRC 120	Saginaw Township	Universal Drain	-83.98614	43.45825	3
SCRC 121	Saginaw Township	Universal Drain	-83.98692	43.45825	3
SCRC 122	Saginaw Township	Universal Drain	-83.99084	43.45827	3
SCRC 123	Saginaw Township	Universal Drain	-83.95916	43.45816	1
SCRC 124	Saginaw Township	Universal Drain	-84.00504	43.45832	1
SCRC 125	Saginaw Township	Universal Drain	-84.00637	43.45833	3
SCRC 126	Saginaw Township	Universal Drain	-84.00100	43.45832	3
SCRC 127	Saginaw Township	Universal Drain	-84.00235	43.45834	3
SCRC 128	Saginaw Township	Universal Drain	-84.00822	43.45836	3
SCRC 129	Saginaw Township	Universal Drain	-84.01488	43.45839	1
SCRC 130	Saginaw Township	Universal Drain	-84.01087	43.45838	3
SCRC 131	Saginaw Township	Universal Drain	-84.01194	43.45839	3
SCRC 132	Saginaw Township	Universal Drain	-84.01322	43.45840	3
SCRC 133	Saginaw Township	Universal Drain	-84.01976	43.45843	3
SCRC 134	Saginaw Township	Tittabawasse Kochville & Saginaw Drain	-84.05190	43.46017	3
SCRC 135	Saginaw Township	Kastorf Drain	-84.03829	43.46206	3
SCRC 136	Saginaw Township	Tittabawasse Kochville & Saginaw Drain	-84.05188	43.46317	3
SCRC 137	Buena Vista Township	Koehler Drain	-83.89618	43.46476	3
SCRC 138	Saginaw Township	Universal Drain	-83.96135	43.46523	1
SCRC 139	Saginaw Township	Kastorf Drain	-84.04093	43.46592	1
SCRC 140	Saginaw Township	Universal Drain via McCarty Tile Drain	-84.00658	43.46734	3
SCRC 141	Saginaw Township	Universal Drain via McCarty Tile Drain	-84.00713	43.46773	3
SCRC 142	Saginaw Township	Tittabawasse Kochville & Saginaw Drain	-84.05183	43.46914	3
SCRC 143	Saginaw Township	Kastorf Drain	-84.04125	43.47125	3
SCRC 144	Saginaw Township	Tittabawasse Kochville & Saginaw Drain	-84.05178	43.47201	3
SCRC 145	Saginaw Township	Elmer Drain	-83.96114	43.47244	1
SCRC 146	Saginaw Township	Saginaw Zilwaukee Drain	-84.00568	43.47265	3
SCRC 147	Saginaw Township	Saginaw Zilwaukee Drain	-84.00468	43.47266	3
SCRC 148	Saginaw Township	Saginaw Zilwaukee Drain	-84.00325	43.47266	3
SCRC 149	Saginaw Township	Saginaw Zilwaukee Drain	-84.01477	43.47280	1
SCRC 150	Saginaw Township	Tittabawasse Kochville & Saginaw Drain	-84.05174	43.47381	3
SCRC 151	Saginaw Township	Saginaw Zilwaukee Drain	-83.98907	43.47615	3
SCRC 152	Saginaw Township	Saginaw Zilwaukee Drain	-83.98728	43.47615	3

SCRC 153	Saginaw Township	Saginaw Zilwaukee Drain	-83.98044	43.47618	1
SCRC 154	Saginaw Township	Saginaw Zilwaukee Drain via SCRC Open Ditch	-83.97776	43.47648	1
SCRC 155	Saginaw Township	Saginaw Zilwaukee Drain	-83.96337	43.47811	1
SCRC 156	Saginaw Township	Saginaw Zilwaukee Drain	-83.96554	43.47813	1
SCRC 157	Saginaw Township	Saginaw Zilwaukee Drain	-83.96336	43.47815	1
SCRC 158	Saginaw Township	Kastorf Drain via SCRC Ditch	-84.03401	43.47933	3
SCRC 159	Saginaw Township	Saginaw Zilwaukee Drain via SCRC Ditch	-83.95929	43.47961	1
SCRC 160	Carrollton Township	Saginaw Zilwaukee Drain	-83.94075	43.47955	1
SCRC 161	Kochville Township	Branch No.1 of South Branch of Kochville Drain via Ditch	-83.98503	43.48190	3
SCRC 162	Kochville Township	Branch No.1 of South Branch of Kochville Dain via Meijir Drain	-83.97811	43.48346	1
SCRC 163	Kochville Township	Branch No.1 of South Branch of Kochville Drain via Unamed Ditch	-83.96053	43.48414	1
SCRC 164	Kochville Township	Branch No.1 of South Branch of Kochville Dain via Meijir Drain	-83.97951	43.48475	1
SCRC 165	Kochville Township	Kochville Drain via SCRC Ditch	-83.94994	43.48499	1
SCRC 166	Kochville Township	Branch No.1 of South Branch of Kochville Drain via Unamed Ditch	-83.95872	43.48562	1
SCRC 167	Kochville Township	Saginaw Zilwaukee Drain via Unamed Ditch	-83.94256	43.48593	3
SCRC 168	Kochville Township	Kochville Drain via SCRC Ditch	-83.94622	43.48630	1
SCRC 169	Kochville Township	Saginaw Zilwaukee Drain	-83.93583	43.49256	3
SCRC 170	Kochville Township	Burdow Drain	-83.95623	43.50857	3
SCRC 171	Kochville Township	Bourdow Drain via SCRC Ditch	-83.95975	43.50858	1
SCRC 172	Tittabawse Township	Tittabawassee River	-84.11905	43.51454	1
SCRC 173	Kochville Township	SVSU MS4	-83.95591	43.51490	1
SCRC 174	Tittabawassee Township	Parker Swamp Drain	-84.13197	43.51936	3
SCRC 175	Tittabawassee Township	Parker Swamp Drain	-84.13421	43.51989	3
SCRC 176	Tittabawassee Township	Parker Swamp Drain	-84.13775	43.52024	3
SCRC 177	Tittabawassee Township	Parker Swamp Drain	-84.14305	43.52037	3
SCRC 178	Tittabawassee Township	New Freeland Tile Drain	-84.11884	43.52108	1
SCRC 179	Tittabawassee Township	Parker Swamp Drain	-84.14124	43.52125	3
SCRC 180	Tittabawassee Township	Tittabawassee River	-84.13328	43.52490	1
SCRC 181	Tittabawassee Township	Ostrander Drain	-84.12057	43.52585	3
SCRC 182	Tittabawassee Township	Ostrander Drain via Lake State Railway	-84.11387	43.52597	3
SCRC 183	Tittabawassee Township	Ostrander Drain	-84.12107	43.52605	1
SCRC 184	Tittabawassee Township	Ostrander Drain	-84.12104	43.52610	1
SCRC 185	Tittabawse Township	Ostrander Drain	-84.11712	43.52787	3
SCRC 186	Tittabawse Township	Ostrander Drain via Lake State Railway	-84.11993	43.53046	2
SCRC 187	Tittabawassee Township	Trickery Drain	-84.16240	43.53406	3
SCRC 188	Tittabawassee Township	Trickery Drain	-84.16237	43.53530	3
SCRC 189	Tittabawassee Township	Tittabawassee River	-84.13481	43.53553	3
SCRC 190	Tittabawassee Township	Tittabawassee River	-84.13618	43.53644	3
SCRC 191	Tittabawassee Township	Trickery Drain via SCRC Ditch	-84.16050	43.53745	3

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Saginaw Charter Township**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
SCT1	DPW	Universal Drain via SCPWC MS4	-84.012919	43.451290	2	Point of Discharge
SCT2	Fire Station 1	Universal Drain via SCPWC MS4	-84.038570	43.451452	2	Point of Discharge
SCT3	Fire Station 2	Universal Drain via SCPWC MS4	-83.979149	43.465193	2	Point of Discharge
SCT4	Recreational Complex	Universal Drain via SCPWC MS4	-84.014921	43.453096	2	Point of Discharge
SCT5	Center Courts	Universal Drain via SCPWC MS4	-84.014974	43.455267	2	Point of Discharge
SCT6	Center Courts	Universal Drain via SCPWC MS4	-84.014988	43.456452	2	Point of Discharge
SCT7	Wickes Park East	Tittabawassee, Kochville & Saginaw Drain	-84.052233	43.460099	1	Outfall
SCT8	Wickes Park West	Wickes Pond	-84.060292	43.462191	1	Outfall
SCT9	Landscape Park	Amanda Drain via SCPWC MS4	-84.034425	43.43031	2	Outfall
SCT10	W Michigan Park	Tittabawassee River to Saginaw River	-84.029628	43.401434	1	Outfall
SCT11	Leonard Boers Riverfront	Tittabawassee River to Saginaw River	-84.016395	43.394357	1	Outfall
SCT12	Soccer Complex	Universal Drain	-83.989136	43.45828	1	Outfall
SCT13	Soccer Complex	Universal Drain via SCPWC MS4	-83.985351	43.465328	2	Point of Discharge
SCT14	Soccer Complex	Universal Drain via SCPWC MS4	-83.986750	43.465303	2	Point of Discharge
SCT15	Soccer Complex	Universal Drain via SCPWC MS4	-83.986466	43.465306	2	Point of Discharge

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Saginaw Intermediate School District**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
SISD1	SISD Bus Garage	Universal Drain via SCPWC MS4	-83.971167	43.455057	2	Point of Discharge
SISD2	RES Center	Wetland	-84.040286	43.415177	1	Outfall
SISD3	RES Center	Wetland	-84.039533	43.414322	1	Outfall
SISD4	Millet Learning Center	Branch #1 of Keogan Sieman Drain via SCPWC MS4	-83.903934	43.370593	2	Point of Discharge
SISD5	Transition Center	Universal Drain via SCPWC MS4	-83.969408	43.463878	2	Point of Discharge

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Saginaw Township Community School District**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
STCSD1	Heritage High School	Universal Drain via SCPWC MS4	-84.015083	43.454444	2	Point of Discharge
STCSD2	Heritage High School	Universal Drain via SCPWC MS4	-84.015200	43.457289	2	Point of Discharge
STCSD4	Arrowwood Elementary School	Winterstein Drain via SCPWC MS4	-84.021337	43.422556	2	Point of Discharge
STCSD5	Arrowwood Elementary School	Winterstein Drain via SCPWC MS4	-84.024609	43.422696	2	Point of Discharge
STCSD6	Sherwood Elementary School	Universal Drain via SCPWC MS4	-83.994996	43.452271	2	Point of Discharge
STCSD7	Sherwood Elementary School	Silverwood PK Branch of Universal Drain	-83.990361	43.451775	1	Point of Discharge
STCSD8	Mackinaw High School	Universal Drain via Shattuck Rd Br Bay Rd Tile	-83.971790	43.450900	2	Point of Discharge
STCSD9	Mackinaw High School	Universal Drain via Shattuck Rd Br Bay Rd Tile	-83.972574	43.450888	2	Point of Discharge
STCSD10	STCSD Buildings Grounds and Foodservice	Universal Drain via SCPWC MS4	-83.971167	43.455057	2	Point of Discharge

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Swan Valley School District**

<b>Source ID</b>	<b>Location</b>	<b>Receiving Waters</b>	<b>Longitude (W)</b>	<b>Latitude (N)</b>	<b>Priority Area</b>	<b>Source</b>
SVSD1	Between Schools	Scholtz & O'Hearn Drain	-84.080168	43.410935	1	Outfall
SVSD2	Between Schools	Scholtz & O'Hearn Drain	-84.080881	43.412539	1	Outfall
SVSD3	Van Wormer Rd	Swan Creek	-84.088235	43.409749	1	Outfall
SVSD4	Football Stadium	Scholtz & O'Hearn Drain	-84.079363	43.412366	1	Outfall
SVSD5	Football Stadium	Scholtz & O'Hearn Drain	-84.079033	43.412363	1	Outfall

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Saginaw Valley State University**

Source ID	Municipality	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
SVSU1	Saginaw Valley State University	Detention Basin	-83.970809	43.515378	1	Outfall
SVSU2	Saginaw Valley State University	Detention Basin	-83.970748	43.513056	1	Outfall
SVSU3	Saginaw Valley State University	North Branch of Kochville Drain	-83.972623	43.513246	1	Outfall
SVSU4	Saginaw Valley State University	North Branch of Kochville Drain	-83.971648	43.512236	1	Outfall
SVSU5	Saginaw Valley State University	North Branch of Kochville Drain	-83.970144	43.510940	1	Outfall
SVSU6	Saginaw Valley State University	North Branch of Kochville Drain	-83.969947	43.510909	1	Outfall
SVSU7	Saginaw Valley State University	North Branch of Kochville Drain	-83.968438	43.510785	1	Outfall
SVSU8	Saginaw Valley State University	North Branch of Kochville Drain	-83.967997	43.510795	1	Outfall
SVSU9	Saginaw Valley State University	North Branch of Kochville Drain	-83.966788	43.510935	1	Outfall
SVSU10	Saginaw Valley State University	North Branch of Kochville Drain	-83.966241	43.511039	1	Outfall
SVSU11	Saginaw Valley State University	North Branch of Kochville Drain	-83.966102	43.510993	1	Outfall
SVSU12	Saginaw Valley State University	North Branch of Kochville Drain	-83.965552	43.511003	1	Outfall
SVSU13	Saginaw Valley State University	North Branch of Kochville Drain	-83.964772	43.511049	1	Outfall
SVSU14	Saginaw Valley State University	North Branch of Kochville Drain	-83.964507	43.511048	1	Outfall
SVSU15	Saginaw Valley State University	North Branch of Kochville Drain	-83.963942	43.511078	1	Outfall
SVSU16	Saginaw Valley State University	North Branch of Kochville Drain	-83.962781	43.511091	1	Outfall
SVSU17	Saginaw Valley State University	North Branch of Kochville Drain	-83.962491	43.511050	1	Outfall
SVSU18	Saginaw Valley State University	North Branch of Kochville Drain	-83.961763	43.511000	1	Outfall
SVSU19	Saginaw Valley State University	North Branch of Kochville Drain	-83.961114	43.510950	1	Outfall
SVSU20	Saginaw Valley State University	North Branch of Kochville Drain	-83.960719	43.510926	1	Outfall
SVSU21	Saginaw Valley State University	North Branch of Kochville Drain	-83.960398	43.510861	1	Outfall
SVSU22	Saginaw Valley State University	North Branch of Kochville Drain	-83.960007	43.510762	1	Outfall
SVSU23	Saginaw Valley State University	North Branch of Kochville Drain	-83.959573	43.510666	1	Outfall
SVSU24	Saginaw Valley State University	North Branch of Kochville Drain	-83.959511	43.510637	1	Outfall
SVSU25	Saginaw Valley State University	North Branch of Kochville Drain	-83.959096	43.510479	1	Outfall
SVSU26	Saginaw Valley State University	North Branch of Kochville Drain	-83.957954	43.510483	1	Outfall
SVSU27	Saginaw Valley State University	North Branch of Kochville Drain	-83.957954	43.510483	1	Outfall
SVSU28	Saginaw Valley State University	Detention Basin	-83.958653	43.514654	1	Outfall
SVSU29	Saginaw Valley State University	Detention Basin	-83.959127	43.515218	1	Outfall
SVSU30	Saginaw Valley State University	Detention Basin	-83.965314	43.517010	1	Outfall
SVSU31	Saginaw Valley State University	Detention Basin	-83.965314	43.517010	1	Outfall
SVSU32	Saginaw Valley State University	Retention Basin	-83.963760	43.515190	1	Outfall
SVSU33	Saginaw Valley State University	Retention Basin	-83.963700	43.514980	1	Outfall
SVSU34	Saginaw Valley State University	Retention Basin	-83.962708	43.514661	1	Outfall
SVSU35	Saginaw Valley State University	Bouradow Drain	-83.953762	43.508884	1	Outfall



**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Thomas Township**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
TT1	DPW	Scholtz & O'Hearn Drain	-84.076993	43.417985	1	Outfall
TT2	Fire Station 1	Scholtz & O'Hearn Drain via SCPWC MS4	-84.071571	43.418361	2	Point of Discharge
TT3	Fire Station 2	Wiltse Branch No. 2 Drain via SCPWC MS4	-84.111538	43.466982	2	Point of Discharge
TT4	Public Safety	Scholtz & O'Hearn Drain via SCPWC MS4	-84.074686	43.418739	2	Point of Discharge
TT5	Library	Scholtz & O'Hearn Drain via SCPWC MS4	-84.074396	43.418034	2	Point of Discharge
TT6	Township Office & Community Park	Scholtz & O'Hearn Drain via SCPWC MS4	-84.071560	43.417727	2	Point of Discharge
TT7	Day Park	Tittabawassee River via SCPWC MS4	-84.052167	43.409833	2	Point of Discharge
TT8	Roberts Park		-84.064072	43.409043	1	Point of Discharge
TT9	Roberts Park		-84.064001	43.409513	1	Point of Discharge
TT10	Roethke Park	Roethke Pond	-84.104983	43.413124	1	(Need to verify)

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**Tittabawassee Township**

Source ID	Location	Receiving Waters	Longitude (W)	Latitude (N)	Priority Area	Source
TITT1	Freeland Learning Center	New Freeland Tile Drain	-84.118489	43.522711	2	Point of Discharge
TITT2	Freeland Learning Center	New Freeland Tile Drain	-84.118467	43.520972	2	Point of Discharge
TITT3	Township Offices & Public Safety	Tittabawassee River	-84.119601	43.524261	2	Point of Discharge
TITT4	Township Offices & Public Safety	Tittabawassee River	-84.119608	43.523843	2	Point of Discharge
TITT5	Village Park	Tittabawassee River	-84.120778	43.524847	2	Point of Discharge
TITT6	Festival Park	Tittabawassee River	-84.126365	43.525688	1	Outfall
TITT7	Festival Park	Tittabawassee River	-84.127070	43.525064	2	Outfall
TITT8	Tittabawassee Township Park	Wetlands	-84.141931	43.541763	1	Outfall
TITT9	Freeland High/Middle School	*	-84.110093	43.529140		

\*The outfall/s for the Freeland Community School District has not been inventoried at the the time of this submittal. This section will be updated as soon as it has been located.

**SAGINAW AREA STORM WATER AUTHORITY OUTFALL AND POINT DISCHARGE TABLE**  
**City of Zilwaukee**

<b>Source ID</b>	<b>Location</b>	<b>Receiving Waters</b>	<b>Longitude (W)</b>	<b>Latitude (N)</b>	<b>Priority Area</b>	<b>Source</b>
CZ1	City of Zilwaukee	Kochville Drain	-83.930158	43.493755	1	Outfall
CZ2	City of Zilwaukee	Saginaw River	-83.913512	43.476210	1	Outfall

**Appendix II**  
*NPDES Phase II Dry-Weather Outfall and Point of Discharge Inspection  
Form*

# NPDES PHASE II OUTFALL SURVEY SHEET

## General

Outfall #: \_\_\_\_\_ Photograph #: \_\_\_\_\_ Date: \_\_\_\_\_ Crew Initials: \_\_\_\_\_

Right \_\_\_\_\_ Left \_\_\_\_\_ Side of drain looking upstream

Location: \_\_\_\_\_

Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

Weather: Air temp.: \_\_\_\_\_ Rain: Yes \_\_\_ No \_\_\_ Sunny: \_\_\_ Cloudy: \_\_\_

Number of days of no precipitation or runoff events prior to inspection: \_\_\_

## Outfall

### Point Source Information

Size \_\_\_\_\_

Type/Material \_\_\_\_\_

Flow Present \_\_\_\_\_

Depth of Flow in Pipe (inches) \_\_\_\_\_

Check if Submerged \_\_\_\_\_

### Land Use/Area

- |  |                                     |                                       |                                       |
|--|-------------------------------------|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> Residential         | <input type="checkbox"/> single     | <input type="checkbox"/> multi        | <input type="checkbox"/> Manufactured |
| <input type="checkbox"/> Commercial/Business | <input type="checkbox"/> Industrial | <input type="checkbox"/> Agricultural | <input type="checkbox"/> Wooded Area  |
| <input type="checkbox"/> Transportation      | <input type="checkbox"/> Meadow     | Known Use _____                       |                                       |

### Physical Discharge Observations

Odor: None \_\_\_ Sewage \_\_\_ Sulfide \_\_\_ Oil \_\_\_ Gas \_\_\_ Sour \_\_\_ Other \_\_\_\_\_

Color: None \_\_\_ Yellow \_\_\_ Brown \_\_\_ Green \_\_\_ Red \_\_\_ Gray \_\_\_ Other \_\_\_\_\_

Turbidity: None \_\_\_ Cloudy \_\_\_ Opaque \_\_\_

Floatables: None \_\_\_ Petroleum \_\_\_ Sheen \_\_\_ Sewage \_\_\_ Other \_\_\_ (collect sample)

Deposits/Stains: None \_\_\_ Sediment \_\_\_ Oily \_\_\_ Describe \_\_\_\_\_ (collect sample)

Vegetation Conditions: Normal \_\_\_ Inhibited Growth \_\_\_ Excessive Growth \_\_\_

Extent: \_\_\_\_\_

Erosion present: Yes \_\_\_ No \_\_\_ Describe: \_\_\_\_\_  
at Outfall \_\_\_\_\_  
\_\_\_\_\_

Damage to outfall structures:

None \_\_\_ Concrete Cracking \_\_\_ Concrete Spalling \_\_\_ Peeling Paint \_\_\_ Metal Corrosion \_\_\_

Other damage: \_\_\_\_\_ Extent: \_\_\_\_\_

### Chemical Analysis

Temperature: \_\_\_\_\_ °F Conductivity: \_\_\_\_\_ μS Surfactants: \_\_\_ high \_\_\_ low \_\_\_ none

pH: \_\_\_\_\_ Ammonia: \_\_\_\_\_ ppm DO: \_\_\_\_\_ Turbidity: \_\_\_\_\_ TDS: \_\_\_\_\_

### Other

Known industrial or commercial uses in drainage area? Yes \_\_\_ No \_\_\_ Describe \_\_\_\_\_

Stream Conditions: \_\_\_\_\_



## **Appendix III**

*SASWA IDEP Reporting Procedure*

*Illicit Discharge Report and Investigations Guidelines*

*Contact Information*

*Incident Investigation Report Form Example*

*Illicit Discharge from a Construction Site Document*



# Saginaw Area Storm Water Authority

## IDEP REPORTING PROCEDURE

### **GOAL:**

To protect water quality in Saginaw County in the event of spills, illicit dumping, connections, or discharges into storm sewer systems or waters of the state of Michigan.

### **OBJECTIVE:**

The primary objective of this procedure is to protect the water quality of surface waters of the state of Michigan. This procedure is to address the spills and illicit dumping into the storm drainage system within the SASWA's urbanized area. This procedure does not cover incidents that are emergent in nature and can effect Public Health and Safety, such as gasoline or fuel oil spills from vehicular accidents, railway accidents with spills of large quantities of volatile or chemical materials/fluids. These incidences must be routed to 9-1-1 for proper Hazardous Material Team Response. After the 9-1-1 system is notified, contact the MDEQ's 24-Hour Pollution Emergency Alerting System at 1-800-292-4706.

### **METHOD:**

1. The Saginaw Area Storm Water Authority (SASWA) through the Saginaw County Public Works Commissioner's Office at 790-5258 will receive messages reporting illicit discharges or connections to the storm in Saginaw County.
2. Staff from the Office of Public Works will be available to receive calls Monday through Friday from 8:30 a.m. to 5:00 p.m.
3. After hours, and on weekends and holidays the calls will be forwarded to 9-1-1 or 989-790-5456 the Sheriff Dept. Non-Emergency number at the county's Central Dispatching agency.

FOR MINOR INCIDENTS Staff will complete the After Hours – Operator Referral Form and fax to SASWA (SCPWC office) at the number listed on the form.

4. The Urgent or High Concern problems to be addressed include:
  - Illegal dumping
    - Suspicious waste disposal activities including solid waste such as tires, trash, barrels, appliances, gasoline and petroleum products, oil slicks, discolored water discharges, etc. being improperly disposed of into the Saginaw River, its tributaries, streams or county drains.
    - Changes in water characteristics, foaming, discoloration, oily films or sheens.



# Saginaw Area Storm Water Authority

- Soil Erosion and Sediment Control failures from construction sites or other areas that enter into the River systems, or its tributaries, streams or county drains.
  - Unusual odors coming from the river, stream, drain, or storm sewer system.
  - Fish kills and / or other dead aquatic animals (e.g. dead birds, reptiles, frogs, or toads).
  - Urgent calls regarding watershed management issues from other agencies or the Michigan Department of Environmental Quality (MDEQ).
5. Staff will utilize the established triage questions for reporting illicit discharges:
- a. What is the location of the problem:
    - Name the nearest cross streets, intersections or landmarks
    - Caller's address or phone number for verification or additional contact or call back.
  - b. Is there a strong odor of wastewater? Is there a strong odor that the caller can describe?
    - If odor is petroleum based or a chemical type that may have hazardous implications begin contact with 9-1-1 to activate hazardous response teams to the location.
  - c. Did you observe the discharges or dumping of pollutants into drains, ditches, ponds, lakes, rivers?
  - d. Did you witness wastewater or other evidence on the ground surface? Can you describe it?
  - e. Do you know the source of the pollution or the responsible party? Can you give any descriptions of vehicles or persons involved? License numbers?
  - f. Are there any other comments the caller would like to make?
6. After completion of the call the Public Works Commissioner or his/her designee will refer the call to the municipality, school district, agency or university that has jurisdictional responsibility.
7. As necessary, the Public Works Commissioner or his/her designee will refer the call to the MDEQ, as it relates to water quality issues for waters of the state, if polluting material is in excess of the threshold reporting quantities in the Part 5 Rules, or if the notice is provided after regular working hours, the MDEQ's 24-Hour Pollution Emergency Alerting System at 1-800-292-4706 will be contacted.
8. A log will be kept of all calls in a database established by SASWA. This will be available for the annual report presented to MDEQ.
9. Proper incident response and disposition forms must be filled out and distributed to the SASWA member with jurisdiction, Saginaw County Public Works Commissioner, the consultant (Spicer Group). This must be done within 5 days in order to provide time for a response to the MDEQ to





# **Saginaw Area Storm Water Authority**

cover spill incident reporting. Spill reporting must be completed within 10 days of the incident and submitted to MDEQ as required and directed in the permit.

# Saginaw Area Storm Water Authority

## ILLICIT DISCHARGE REPORT & INVESTIGATION GUIDELINES: (Forms attached)

### General Questions:

1. What is the location of the problem:
  - Name the nearest cross streets, intersections or landmarks
  - Caller's address or phone number for verification or additional contact or call back.  
**Note:** Caller may wish to remain anonymous.
2. Nature of the Illicit Discharge:
  - Is the discharge entering a storm sewer, open ditch, pond, or river? Other?
  - Composition of discharge? Petroleum product or chemical in nature? Other?
  - What is the volume of the discharge? How much are we talking about?
  - Did you witness the discharge or know the source of the pollution? Description of vehicles, parties involved? License numbers?

### Response/Dispatch:

#### Hazardous or potential to be hazardous:

1. If the Illicit discharge is a petroleum product, chemical type in nature, or large volume with unknown composition, please contact/activate the appropriate Fire Department/Haz Mat Response Team within the Municipality or Township involved.
2. If the caller's description of the illicit discharge signifies a potential public safety concern, please contact/activate the appropriate Fire Department/Haz Mat Response Team.

#### Minor spill/discharge:

1. If caller information signifies a minor or non-hazardous spill/discharge, please contact the Saginaw County Public Works Commissioner and advise him/her of the nature of the call.  
Examples: A. A resident dumping oil, antifreeze, or paint down a catch basin in front of home.  
B. A resident spots a small amount of something in open ditch, etc....  
C. Human or animal waste products in storm water.
2. If the SCPWC is not available, please contact the appropriate person on the Contact List to investigate the incident.

# Saginaw Area Storm Water Authority

3. The responder shall evaluate the scene and mitigate the situation as needed (e.g. use absorbent pads, place a boom, apply an absorbent product and dispose of clean up materials properly).
4. Any questions on clean-up call the Saginaw County Public Works Commissioner's office.

## Form Distribution:

1. When the form is completed a copy should be retained by the jurisdictional area where the incident occurred and provided to the municipality's representative to the SASWA.
2. A copy must be forwarded to the Saginaw County Public Works Commissioner's Office at
  - a. [bwending@saginawcounty.com](mailto:bwending@saginawcounty.com)
3. A copy must be forwarded to the SASWA consultant (Spicer Group) for record keeping and annual reporting.
  - a. [russb@spicergroup.com](mailto:russb@spicergroup.com)
4. NOTE: this distribution method is to be used for either paper or electronic reporting forms. Either obtain the REPORTING FORM at:  
[http://www.saswa.org/filemgt/illicit\\_discharge/Incident%20Report%20Form.pdf](http://www.saswa.org/filemgt/illicit_discharge/Incident%20Report%20Form.pdf)

GO TO SASWA Website for all forms and procedures at:

[http://www.saswa.org/illicit\\_discharge.php](http://www.saswa.org/illicit_discharge.php)

At the bottom of the page are all the links to forms, procedures, call lists, etc.

OR, Contact the consultant and the excel form will be emailed or placed on a disk and sent to you.



<b>AGENCIES:</b>		
<b>Saginaw County Road Comm.</b> Page 53 of 61	Emergency Pager (Weekends and after hour issue only)	989-222-3644 (pager)
	District 2- Todd Ferguson, Foreman	989-399-3774 (tel.) 989-763-8474 (cell)
	District 3- Paul Gohs, Foreman	989-399-3767 (tel.) 989-737-3230 (cell)
	District 4- Jason Brown, Foreman	989-399-3762 (tel.) 989-239-9459 (cell)
	District 6- Chris Burke, Foreman	989-399-3768 (tel.) 989-233-3603 (cell)
	Rob Hudec, Maintenance Superintendent	989-399-3755 (tel.) 989-239-4682 (cell)
	Dan Medina, Director of Maintenance	989-399-3773 (tel.) 989-233-0837 (cell)
	Marissa Irish, P.E., Director of Engineering/Deputy Managing Director	989-399-3761 (tel.) 989-233-6463 (cell)
	Dennis Borchard, Managing Director	989-399-3772 (tel.) 989-737-3232 (cell)
<b>Saginaw County Public Works Commissioner</b>	Brian Wendling	989-790-5258 (work)
	Marva Colpaert, P.E.	989-790-5258 (work) 989-573-3705 (cell)
<b>SCHOOL DISTRICTS:</b>		
<b>Bridgeport-Spaulding Schools</b>	Jeff Ladd	989-777-9290 (school) 989-293-5876 (cell)
<b>Saginaw Intermediate School District</b>	Kelly Quimper <b>RETIRED need new contact</b>	989-399-7469 (school) 989-996-0251 (24 hr. contact #)
<b>Saginaw Township Schools</b>	Deb Neal	989-793-9711 (school)
	Rick Reagan	989-793-9713 (school) 989-245-3681 (cell)
<b>Swan Valley Schools</b>	Jim Doyle	989-921-3701 (school) 989-280-2879 (cell)
<b>Saginaw Valley State University</b>	Joel Kiss, Assistant Director	989-964-2049 (office) 989-295-8860 (cell)
	Mark Engelhart, Asst. Mgr. Maintenance	989-964-2205 (office) 989-293-5741 (cell)
	Charles Thompson, Asst. Mgr. Maint.	989-964-4396 (office) 989-239-0091 (cell)
<b>MDOT - Saginaw</b>	<b>Paul Ruegsegger Trans. Maint. Supv.</b>	<b>989-233-0545 (cell)</b>

## Telephone Numbers

PLEASE NOTE: For **life threatening and local emergencies**, (fires, explosions, police situations) please direct caller to contact 9-1-1.

### SAGINAW COUNTY:

Emergency Management (Hazardous Spills).....(989) 790-5434  
Environmental Health (SCPH Dept.).....(989) 758-3830  
Sheriff Department (non emergency).....(989) 790-5456  
Saginaw County Central Dispatch.....(989) 797-4580  
Public Works Commissioner.....(989) 790-5258  
Saginaw County Road Commission.....(989) 752-6140

### STATE of MICHIGAN:

#### MDEQ (Michigan Department of Environmental Quality)

Bay City (Saginaw Bay District).....(989) 894-6200

**Contact the Saginaw Bay District office from 8 a.m. to 5 p.m. (Keith Noble is responsible for Saginaw County).**

**If after hours or on holidays or weekends use the PEAS number listed directly below this statement.**

PEAS (Pollution Emergency Alert System).....1-800-292-4706

#### MDOT (Michigan Department of Transportation)

Bay City TSC – Perry Lund..... (989) 754-0784 ext 234

Michigan Department of Public Health.....(517) 335-9030

State Police – Bridgeport (Saginaw).....(989) 777-3700

### U.S. GOVERNMENT:

NRC (National Response Center Hotline).....1-800-424-8802

EPA (Environmental Protection Agency

Public Information.....1-800-621-8431

Large Lakes Research Station (Grosse Ile).....(734) 692-7600

U.S. Coast Guard – Bay City.....(989) 892-0555

If no answer call.....1-313-234-5600

POISON CONTROL CENTER.....1-800-222-1222



Incident Investigation Report

Incident address or location: [Redacted]

Complaint: [Redacted]

Property Owner: [Redacted]

Inspector(s): [Redacted] Date/Time: [Redacted]

Incident Reported by: (Name / Title): [Redacted] Date/Time: [Redacted]

Complaint by: (Name): [Redacted] Phone# [Redacted] Fax: [Redacted]

Is site in combined sewer district?  Yes  No

If yes, was appropriate contact made with jurisdictional department?  Yes  No

Name of agency or person who took call: [Redacted]

If no, continue:

Was area fire department on site?  Yes  No

If yes, obtain a report from them within 24 hours.

If no, continue:

Material or substance spilled or found in storm water system: [Redacted]

Estimated quantity: [Redacted] gallons/pounds/volume indicator

Was the Saginaw Public Works office contacted?  Yes  No

Was the MDEQ contacted?  Yes  No

Incident contained?  Yes  No Describe: [Redacted]

Equipment Used: [Redacted]

Sample Taken?  Yes  No By Whom: [Redacted]

Source Identified?  Yes  No

Responsible Party(s) Name: [Redacted] Address: [Redacted] Phone #: [Redacted]

Disposition (Outcome) of Call: [Redacted]

copies to: Saginaw County Public Works Commissioner Spicer Group, Russ Beaubien Jurisdictional Municipality

## ILLICIT DISCHARGE FROM A CONSTRUCTION SITE

**Objective:** Municipal or county staff have a duty to report illicit discharges from construction sites in Saginaw County to their supervisory staff for further action.

**Procedure:**

1. If a municipal or county employee observe a construction site that is discharging unclean stormwater runoff, waste materials, petroleum products, dirty water, vehicle fluids, or cement, excess sediment or any polluting substance with the exception of clean storm water from a construction site into a stormwater conveyance system. They should:
  - a. Observe the type of discharge and be prepared to describe it. Take notes on location what you observed, if possible
  - b. Take a picture of the discharge or problem if you have a camera or cell phone with a camera.
  - c. Contact your immediate supervisor.
2. Supervisors / Management staff should determine what the problem is; determine if this project is under a soil erosion and sediment control permit by calling the Saginaw County Public Works Commissioner's office at 989-790-5258. If there is a permit for this site report the problem to them.
3. If there is no permit contact your SASWA representative or the SASWA consultant (Russ Beaubien at Spicer Group, 989-921-5571 or 989-751-0529) for investigation.
4. The site should be investigated as soon as possible. If there are chemicals, sediment laden water or other waste discharging from the site into a storm drain system, wetland, or surface waters of the state the MDEQ should be contacted.

**STATE of MICHIGAN:**

**MDEQ (Michigan Department of Environmental Quality)**

**Bay City (Saginaw Bay District).....(989) 894-6200**

**Contact the Saginaw Bay District office from 8 a.m. to 5 p.m. (Mike Kraut or Bob Lehman is responsible for Saginaw County).**

**If after hours or on holidays or weekends use the PEAS number listed directly below this statement.**

**PEAS (Pollution Emergency Alert System).....1-800-292-4706**

5. After reporting the illicit construction site discharge go to [www.saswa.org](http://www.saswa.org) and click on the Illicit Discharge Elimination Plan in the left column. At the bottom of this next page the Incident reporting forms are located along with reporting procedures. Complete the report and submit it to the Saginaw Area Storm Water Authority (SASWA).



## **Appendix IV**

*2012 Michigan Plumbing Code Excerpts*

*2009 Michigan Residential Code Excerpts*

*(NOTE: SASWA is not paying to get access to this code, as we have established a code enforcement officer has right of entry.)*

*International Property Maintenance Code of 2012 Excerpts*

Michigan Plumbing Code – 2012 / 2015

R 408.30717 Duties and powers of code official.

Rule 717. Sections 104.1 and 104.5 of the code are amended to read as follows:

104.1 General. The code official shall enforce all of the provisions of the code and shall act on any question relative to the installation, alteration, repair, maintenance, or operation of all plumbing systems, devices, and equipment except as specifically provided for by statutory requirements or as provided for in sections 104.3 through 104.8.

104.5. Right of entry. In the discharge of duties, the code official may enter any building, structure, or premises in the jurisdiction to enforce the provisions of the act and the code.

History: 1982 AACCS; 1985 AACCS; 1998-2000 AACCS; 2001 AACCS; 2003 AACCS; 2007 AACCS.

## 2012 International Property Maintenance Code

Available at: <https://law.resource.org/pub/us/code/ibr/icc.ipmc.2012.html>

2012 International Property Maintenance Code®  
First Printing: April 2011  
ISBN: 978-1-60983-056-4 (soft-cover edition)  
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INTERNATIONAL CODE COUNCIL, INC.

Relevant Sections:

**[A] 102.5 Workmanship.** Repairs, maintenance work, alterations or installations which are caused directly or indirectly by the enforcement of this code shall be executed and installed in a *workmanlike* manner and installed in accordance with the manufacturer's instructions.

**[A] 102.8 Requirements not covered by code.** Requirements necessary for the strength, stability or proper operation of an existing fixture, structure or equipment, or for the public safety, health and general welfare, not specifically covered by this code, shall be determined by the *code official*.

**[A] 103.1 General.** The department of property maintenance inspection is hereby created and the executive official in charge thereof shall be known as the *code official*.

**[A] 103.2 Appointment.** The *code official* shall be appointed by the chief appointing authority of the jurisdiction.

**[A] 103.3 Deputies.** In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority, the *code official* shall have the authority to appoint a deputy(s). Such employees shall have powers as delegated by the *code official*.

**[A] 103.4 Liability.** The *code official*, member of the board of appeals or employee charged with the enforcement of this code, while acting for the jurisdiction, in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered liable personally, and is hereby relieved from all personal liability for any damage accruing to persons or property as a result of an act or by reason of an act or omission in the discharge of official duties. Any suit instituted against any officer or employee because of an act performed by that officer or employee in the lawful discharge of duties and under the provisions of this code shall be defended by the legal representative of the jurisdiction until the final termination of the proceedings. The *code official* or any subordinate shall not be liable for costs in an action, suit or proceeding that is instituted in pursuance of the provisions of this code.

**[A] 103.5 Fees.** The fees for activities and services performed by the department in carrying out its responsibilities under this code shall be as indicated in the following schedule.

## **SECTION 104 DUTIES AND POWERS OF THE CODE OFFICIAL**

**[A] 104.1 General.** The *code official* is hereby authorized and directed to enforce the provisions of this code. The *code official* shall have the authority to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions. Such interpretations, policies and procedures shall be in compliance with the intent and purpose of this code. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code.

**[A] 104.2 Inspections.** The *code official* shall make all of the required inspections, or shall accept reports of inspection by *approved* agencies or individuals. All reports of such inspections shall be in writing and be certified by a responsible officer of such *approved* agency or by the responsible individual. The *code official* is authorized to engage such expert opinion as deemed necessary to report upon unusual technical issues that arise, subject to the approval of the appointing authority.

**[A] 104.3 Right of entry.** Where it is necessary to make an inspection to enforce the provisions of this code, or whenever the *code official* has reasonable cause to believe that there exists in a *structure* or upon a *premises* a condition in violation of this code, the *code official* is authorized to enter the structure or *premises* at reasonable times to inspect or perform the duties imposed by this code, provided that if such *structure* or *premises* is occupied the *code official* shall present credentials to the *occupant* and request entry. If such structure or *premises* is unoccupied, the *code official* shall first make a reasonable effort to locate the *owner* or other person having charge or control of the *structure* or *premises* and request entry. If entry is refused, the *code official* shall have recourse to the remedies provided by law to secure entry.

**[A] 104.4 Identification.** The *code official* shall carry proper identification when inspecting *structures* or *premises* in the performance of duties under this code.

**[A] 104.5 Notices and orders.** The *code official* shall issue all necessary notices or orders to ensure compliance with this code.

**[A] 104.6 Department records.** The *code official* shall keep official records of all business and activities of the department specified in the provisions of this code. Such records shall be retained in the official records for the period required for retention of public records.

## **SECTION 506 SANITARY DRAINAGE SYSTEM**

**[P] 506.1 General.** All plumbing fixtures shall be properly connected to either a public sewer system or to an *approved* private sewage disposal system.

**[P] 506.2 Maintenance.** Every plumbing stack, vent, waste and sewer line shall function properly and be kept free from obstructions, leaks and defects.

**[P] 506.3 Grease interceptors.** Grease interceptors and automatic grease removal devices shall be maintained in accordance with this code and the manufacturer's installation instructions. Grease interceptors and automatic grease removal devices shall be regularly serviced and cleaned to prevent the discharge of oil, grease, and other substances harmful or hazardous to the building drainage system, the public sewer, the private sewage disposal system or the sewage treatment plant or processes. All records of maintenance, cleaning and repairs shall be available for inspection by the code official.

## **SECTION 507 STORM DRAINAGE**

**[P] 507.1 General.** Drainage of roofs and paved areas, *yards* and courts, and other open areas on the *premises* shall not be discharged in a manner that creates a public nuisance.