

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 1/10th 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 1st 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**

| Source ID | Location | Receiving Waters | Longitude (W) | Latitude (N) | Priority Area | Source |
|------------------|------------------|-------------------------|----------------------|---------------------|----------------------|---------------|
| 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 | |

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|----------|--------------------------|---|------------|-----------|---|---------|--|
| 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 | |

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|----------|--------------------------|---|------------|------------|---|---------|-----------------------|
| 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

| Drain # | Location | Receiving Waters | Longitude (W) | Latitude (N) | Priority Area |
|----------------|------------------------|---------------------------------------|----------------------|---------------------|----------------------|
| 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 |

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|---------|----------------------|--|-----------|----------|---|
| 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 |

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|----------|----------------------|-----------------------------------|-----------|----------|---|
| 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 |

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|----------|----------------------|--|-----------|----------|---|
| 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 |

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|----------|------------------------|---|-----------|----------|---|
| 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

| Source ID | Location | Receiving Waters | Longitude (W) | Latitude (N) | Priority Area | Source |
|------------------|------------------|-------------------------|----------------------|---------------------|----------------------|---------------|
| 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 | Bourdown 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

| Source ID | Location | Receiving Waters | Longitude (W) | Latitude (N) | Priority Area | Source |
|------------------|-------------------|-------------------------|----------------------|---------------------|----------------------|---------------|
| 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 INCIDENCES 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
3. A copy must be forwarded to the SASWA consultant (Spicer Group) for record keeping and annual reporting.
 - a. 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

GO TO SASWA Website for all forms and procedures at:

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.

| AGENCIES: | | |
|---|---|--|
| Saginaw County Road Comm. 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) |
| Saginaw County Public Works Commissioner | Brian Wendling | 989-790-5258 (work) |
| | Marva Colpaert, P.E. | 989-790-5258 (work) 989-573-3705 (cell) |
| SCHOOL DISTRICTS: | | |
| Bridgeport-Spaulding Schools | Jeff Ladd | 989-777-9290 (school) 989-293-5876 (cell) |
| | | |
| Saginaw Intermediate School District | Kelly Quimper RETIRED need new contact | 989-399-7469 (school) 989-996-0251 (24 hr. contact #) |
| | | |
| Saginaw Township Schools | Deb Neal | 989-793-9711 (school) |
| | | |
| | Rick Reagan | 989-793-9713 (school) 989-245-3681 (cell) |
| Swan Valley Schools | Jim Doyle | 989-921-3701 (school) 989-280-2879 (cell) |
| | | |
| Saginaw Valley State University | 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) |
| MDOT - Saginaw | Paul Ruegsegger Trans. Maint. Supv. | 989-233-0545 (cell) |

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:

Complaint:

Property Owner:

Inspector(s): Date/Time:

Incident Reported by: (Name / Title): Date/Time:

Complaint by: (Name): Phone# Fax:

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:

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:

Estimated quantity: gallons/pounds/volume indicator

Was the Saginaw Public Works office contacted? Yes No

Was the MDEQ contacted? Yes No

Incident contained? Yes No Describe:

Equipment Used:

Sample Taken? Yes No By Whom:

Source Identified? Yes No

Responsible Party(s) Name: Address: Phone #:

Disposition (Outcome) of Call:

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 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>

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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.