

# Monroe Metropolitan Area

## Section B. Storm Water Management Program – Minimum Measures

### 1. Education and Outreach on Storm Water Impacts - Public Education Program

The permittee shall have a program to promote, publicize, and facilitate education for the purpose of encouraging the public to reduce the discharge of pollutants in storm water. The public education program may involve combining or coordinating existing programs for public stewardship of water resources. Pollution prevention shall be encouraged. Appropriate BMPs for this minimum measure and measurable goals for each BMP shall be submitted to the Department in accordance with Part I.C.1.a.

"Public" shall be defined to include all persons who potentially could affect the quality of storm water discharges, including, but not limited to, residents, visitors to the area, public employees, businesses, industries, and construction contractors and developers.

The Monroe Metropolitan Area is a group of permittees working together "as one". The group consists of:

1. The County Drain Commissioner
2. The City of Monroe
3. Raisinville Township
4. Frenchtown Charter Township, and
5. Monroe Charter Township

**The Monroe Metropolitan Area public education program has been designed to utilize the following proposed activities to meet our requirements.**

#### PROPOSED ACTIVITIES

- A. Web Sites:** Public Education on the required elements shall be added to Web sites of: the City of Monroe, and the Monroe County Drain Commissioner. In the initial website development phase we will develop and include the following items: A citizens guide to storm water, a citizens guide to lawn care, and a citizens guide to the proper use of fertilizer. These items will be posted to our site by **April 15, 2005**. The websites will be fully operational in the second year of the permit, but no later than January **10, 2006**.
- B. Water bills:** Environmental tips on the required elements shall be added to the quarterly water bills for the City of Monroe supplying water to a large part of the Urban Area. Environmental tips will cover various required

elements. This shall begin to take place in the first year of the permit, but no later than **July 1, 2005**.

- C. Newsletters:** The City of Monroe, Frenchtown Charter Township, Raisinville Township, Monroe Charter Township, and the Monroe County Solid Waste Coordinator all produce newsletters. At least one element from the list of required elements will be published in the newsletters. This shall begin to take place in the first year of the permit, but no later than **July 1, 2005**.
- D. Cable Television Show:** A new Public Access Cable Television show will be produced on a quarterly basis. The Program will highlight storm water issues and focus on pollution prevention. All topics in the Phase II program will be explored. The show shall be cable cast at both Monroe Public Access Cable Television "MPACT", and the City of Monroe Governmental Access Cable Television. It shall also be offered to Bedford Township Public Access Cable Television. The first cable cast shall be conducted no later than **January 10, 2006**.
- E. Electronic Bulletin Board:** The City of Monroe has an electronic bulletin board that will be utilized to cable cast Simple Solutions to Water Pollution. The material will be developed from The Stream Savvy Tool Kit. The topics for Simple Solutions will change every month until all required elements listed below are covered. When all required elements have been covered, they will begin again. This rotation will begin **June 15, 2005**.
- F. Boy Scout Canoe Clean-up:** Planning has begun for our third River Raisin Canoe Clean up. An outreach program to provide Scouts, Scout Leaders and the general public a chance to participate in a River Raisin Canoe excursion that will focus on removing debris from our River. Scout's from the area will focus on a section of river, float that area and remove debris for proper disposal. Donations will be sought to rent canoes; provide lunch and prizes for the participants. In future years environmental education will be incorporated in the program. This is an existing program.

## Permit required public education elements.

### Section B. Storm Water Management Program- Minimum Measures

- a. **Educate the public on the following, as appropriate based on the potential impact on receiving waters:**
1. *Hazards associated with illicit discharges and improper disposal of waste. Encourage public reporting of the presence of illicit discharges or improper disposal of materials into the permittee's drainage system, and develop and publicize a hotline for public reporting. Common illicit discharges are construction site wastes and sediment, carpet cleaner wastes, household wastes and motor vehicle fluids from home owners, septage and other commercially transported wastes, and commercial power washing (except street washing that is exempted from prohibition under Part I.A.1.e.).*

**Existing Effort:** There is no existing formal effort to educate the public regarding the hazards associated with illicit discharges. However the City of Monroe Wastewater Department currently investigates and corrects such issues subject to their authority. Problems outside of their authority will be referred to the proper agency.

**Future Effort:** City of Monroe Wastewater Department in conjunction with the Monroe County Drain Commissioner will develop all programs necessary to educate the public on the hazards associated with illicit discharges and improper disposal of waste.

**Time table for implementation: Part A.** No later than **January 20, 2005** the Monroe Wastewater Department Staff will develop a program to allow the public to report illicit discharges and improper disposal of waste. The program shall include each item below:

1. The Wastewater Department will provide a 24-hr. phone number for reporting illicit discharges.
2. Urban Partners will also forward complaints to the Wastewater Department for investigation and reporting.
3. Wastewater staff will investigate each complaint and issue a report to the resident and the affected Urban Area Partner.
4. The appropriate enforcement actions will occur where necessary.

**Time table for implementation: Part B.** The Wastewater Department staff will implement a program to inform the public about the impact illicit discharges have on the environment, through the following efforts.

1. Beginning on **February 24, 2005**, we will advertise in the Monroe Evening News for five consecutive days. Such advertisement shall be designed to inform the public about the impact illicit discharges have on the environment and shall encourage residents to report illicit discharges utilizing our 24 hour emergency reporting phone number.
2. No later than **May 28, 2005** staff will include the required information on the City of Monroe web site, on our Local Governmental Cable Television Access Channel, and on all water billings sent to residents in the Monroe Metro Area.

**EVALUATION:** Frequency of reported discharges, evaluation of incident reports and corrective actions taken will be reviewed on a yearly basis.

**Section B. Part a, 2.**

**2) Educate the public on “The water body that would be potentially impacted by improper actions at or near a person’s home”.**

**Existing Effort:** There is no existing formal effort to educate the public regarding water body that would be potentially impacted by improper actions at or near a person’s home.

**Future Effort:** Monroe Area Urban Partners will develop a Metropolitan area watershed drainage map. Specific maps will be sent to residents in their local newsletter at least once a year.

**Time table for implementation:** No later than January **28, 2006** a Monroe Metropolitan Area Watershed map will be developed. Such a map will show partnered municipalities and where residential storm water is drained to the receiving waters. These watershed maps shall be included on the City of Monroe web site no later than **February 28, 2006**.

**EVALUATION:** Number of hits on website. Number of newsletters sent to residents.

**Section B. Part a, 3.**

**3) Educate the public on the availability, location and requirements of facilities for collection and/or disposal of household hazardous wastes, travel trailer sanitary wastes, chemicals, grass clippings, leaf litter, animal wastes, and motor vehicle fluids.**

**Existing Effort:** The Monroe County Environmental Health Dept. has an ongoing household hazardous waste (HHW) program. Their website can be reached at [www.co.monroe.mi.us](http://www.co.monroe.mi.us). The County also produces a quarterly newsletter defining all issues regarding recycling, composting and HHW. The county provides a drop off facility for HHW, and citizens can call to make an appointment to drop off their waste at a scheduled time which is convenient to both them and the county. The City of Monroe and Frenchtown Charter Township have curbside collection of yard waste and recyclables.

**Future Effort:** Our community will continue its existing efforts and partner with the county. Staff will work with the Monroe County Solid Waste Coordinator to better coordinate, expand and improve efforts in this regard. The community partners will also develop information on composting, HHW and recycling to be incorporated into our education program.

**Time table for implementation:**

No later than **October 15, 2005**, newsletter articles will be developed to promote the many fine existing County programs that are available to the public. Over the life of the permit we will promote this item in the following ways: websites, newsletters, water bills, and on our electronic bulletin board.

**EVALUATION:** Track number of users at the county's household hazardous waste facility. Track number of recycling bins utilized on a county level throughout the year. Number of newsletters sent out by the County Coordinator.

**Section B. Part a, 4.**

**4) Educate the public on the acceptable application and disposal of pesticides, herbicides, and fertilizers.**

**Existing Effort:** The County of Monroe has an ongoing household hazardous waste (HHW) program that includes information on the acceptable application and disposal of pesticides, herbicides and fertilizers. Their website can be reached at [www.co.monroe.mi.us](http://www.co.monroe.mi.us). The County also produces a quarterly newsletter defining all issues regarding recycling, composting and HHW. The county provides a drop off facility for HHW, and citizens can call to make an appointment to drop off their waste at a scheduled time which is convenient to both them and the county.

**Future Effort:** We will partner with the Monroe County Environmental Health Department and support their efforts relating to this section. The Urban Partners will further utilize material from the Storm Savvy Public Education Program to satisfy these requirements.

**Time table for implementation:**

No later than **October 15, 2005**, newsletter articles will be developed to better educate our residents on the programs available through out Monroe County. The urban partners will work with the Monroe County Solid Waste Coordinator to help promote the many fine existing County programs that are available to the public. Over the life of the permit we will promote this item in the following ways: websites, newsletters, water bills, and on our electronic bulletin board.

**EVALUATION:** Track number of users at the county's household hazardous waste facility with a goal of raising the number of users.

**Section B. Part a, 5.**

**5) *Educate the public on the preferred car cleaning agents and procedures for non-commercial car washing.***

**Existing Effort:** There is no existing formal effort to educate the public on the preferred car cleaning agents and procedures for non-commercial car washing.

**Future Effort:** Monroe Area Urban Partners will utilize material from the Storm Savvy Public Education Program to satisfy these requirements. An educational program will be developed to supply information to the local school systems regarding the use of proper cleaning agents. This material will be targeted to school clubs and organizations sponsoring club car washes on private and public property.

**Time table for implementation:**

No later than January **10, 2006** we will promote this item in the following ways: websites, newsletters, water bills, electronic bulletin board, and our cable television show. Information packets will also be sent to each area school district.

**EVALUATION:** Number of public school clubs that are utilizing the preferred cleaning methods and procedures as advocated above.

**Section B. Part a, 6.**

**6) Educate the public on the proper septic system maintenance.**

**Existing Effort:** There is no existing formal effort to educate the public on the proper septic system maintenance. The urban area is fully sewered, and this section does not apply.

**Future Effort:** Monroe Area Urban Partners chooses not to attempt to educate the public on this issue.

**Time table for implementation:**  
Not applicable.

**Section B. Part a, 7.**

**7) Educate the public on the management of riparian lands to protect water quality.**

**Existing Effort:** There is no existing formal effort to educate the public on the management of riparian lands.

**Future Effort:** Monroe Area Urban Partners chooses not to educate the public on this issue. Only a small portion of the riparian lands are in our Urban Area and we feel that this type of education should come from the County of Monroe.

**Time table for implementation:**  
Not applicable.

**EVALUATION:** Not applicable.

**Section B. Part a, 8.**

**8) Educate the public on the proper public responsibilities and stewardship in their watershed.**

**Existing Effort:** The Monroe County Drain Commissioner and the River Raisin Watershed Council have begun to plan our third River Raisin Canoe Clean up. The Canoe Clean-up provides Scouts, Scout Leaders and the general public a chance to participate in a River Raisin canoe excursion that will focus on removing debris from our river. Scouts from the area will focus on a section of river, float that area and remove debris for proper disposal. Donations will be sought to sponsor the event, rent canoes and provide lunch and prizes. Our 2004 event was successful and included 50 scouts during the day long event.

**Time table for implementation:**

Existing effort, will continue yearly for the life of the permit.

**EVALUATION:** Tracking the number of scouts, leaders and sponsors participating in the event each year, with a goal of increasing the number of scouts each year.

**Section B. Part a, 9.**

**9) *Educate the public on the water quality impacts of residential de-icer use and how to minimize the impacts.***

**Existing Effort:** There is no existing formal effort to educate the public on the water quality impacts of de-icer.

**Future Effort:** Monroe Area Urban Partners chooses not to educate the public on this issue at this time residential de-icing is not considered a problem.

**Time table for implementation:** Not applicable.

**EVALUATION:** Not applicable.

**Section B. Part a, 10.**

**10) *Educate the public on the role of native vegetation on residential properties as a ground cover alternative to turfgrass.***

**Existing Effort:** There is no existing formal effort to educate the public on the roll of native vegetation.

**Future Effort:** Monroe Area Urban Partners chooses not to attempt to educate the public on this issue at this time. Only a small portion of the riparian lands (that would benefit from native ground cover) are in our Urban Area and we feel that this type of education should come from the County of Monroe.

**Time table for implementation:** Not applicable

**EVALUATION:** Not applicable

**Section B. Part b.**

***Educate commercial, industrial and institutional entities likely to have significant storm water impacts. At a minimum, educate commercial food service entities to prevent grease and litter discharges to storm drains.***

**Existing Effort:** There is no existing formal effort to educate the public on this issue.

**Future Effort:** In the first year of the permit we will develop a flyer that will be distributed by the Monroe County Environmental Health Department to all commercial food establishments. The Environmental Health inspectors will report to the Monroe Area Urban Partners a yearly list of commercial food service providers who are marginal in respect to their storm water good housekeeping practices. We will send additional information to those identified in the report.

**Time table for implementation:** Development in the first year of the permit, with implementation no later than **October 15, 2005**.

**EVALUATION:** We will evaluate the yearly reports submitted by the inspectors in an effort to determine the effectiveness of the program. Repeated offenders will be sent additional information and maybe subject to enforcement action to come into compliance.

## **Monroe Metropolitan Area**

### **Section B. Storm Water Management Program – Minimum Measures**

#### **2. Public Involvement and Participation**

Public input shall be encouraged in all aspects of the storm water management program. Appropriate BMPs for this minimum measure and measurable goals for each BMP shall be submitted to the Department in accordance with Part I.C.1.a. The following minimum actions shall be taken to encourage public input:

- a. The permittee shall follow local public notice requirements, as appropriate, when notifying the public that storm water management program must be implemented. Copies of the approved storm water management plan shall be available for public inspection, and the public shall be notified of when and where it is available.
- b. The permittee shall participate in a citizen advisory committee for the purpose of encouraging public involvement in all aspects of the storm water management plan. The permittee may participate in existing citizen advisory committee or may establish and implement its own.
- c. The permittee shall pursue cooperation with local stream or watershed protection organizations, if any exist, by informing them of activities under the storm water management program, providing copies of the storm water management plan and pursuing input on the plan, seeking volunteer assistance including water quality monitoring assistance, and seeking ways to meet general permit requirements by assisting the local organizations with their ongoing programs for resource protection and enhancement.

#### **Permit required public involvement program elements.**

**The Monroe Metropolitan Area Partners is a group of permittees working together “as one”. The group consists of:**

- 1. The Monroe County Drain Commissioner**
- 2. The City of Monroe**
- 3. Frenchtown Charter Township**
- 4. Monroe Charter Township**
- 5. Raisinville Township**

## **Section B. Storm Water Management**

### **Public Involvement and Participation**

#### **Part I. Section B. 2.a.**

- a. *The permittee shall follow local public notice requirements, as appropriate, when notifying the public that storm water management program must be implemented. Copies of the approved storm water management plan shall be available for public inspection, and the public shall be notified of when and where it is available.*

#### **Description: Public Notice**

The Monroe urban area partners will notify the public that a storm water management program plan was developed and encourage public input. This will be done through:

- Publishing a notice in the Monroe Evening News. Such publishing shall follow established public notice procedures a mandated through federal, state and local regulations.
- Communications will be sent to all elected bodies and officials in the urban area. The communication shall notify the municipalities and ask for their input and for representatives to assist in program implementation.

**Timeline:** Year one of the permit, but no later than October 15, 2005.

**Evaluation:** Publication of notice in newspaper, hits on website, and response from sent communications shall be utilized to measure the effectiveness of the public notice.

#### **Description: Public Access to Storm Water Management Plan**

The Monroe urban area partners will provide public access to the plan through:

- Utilizing their respective procedures of placing governmental documents on file for inspection as well as placing the document in local libraries for public access to the document.
- Posting the plan on the City of Monroe and Monroe County Drain Commissioner's websites. Public input shall also be encouraged on the websites.

**Timeline:** year one of the permit, but no later than October 15, 2005.

**Evaluation:** Number of people who review the plan in libraries, in the respective governmental offices and on the websites.

- b. The permittee shall participate in a citizen advisory committee for the purpose of encouraging public involvement in all aspects of the storm water management plan. The permittee may participate in existing citizen advisory committee or may establish and implement its own.*

**Existing Efforts:** The Monroe urban area partners are all members of the River Raisin Watershed Council and the River Raisin RAP Public Advisory Council.

**Future Efforts:** The Monroe County Drain Commissioner will coordinate the establishment of a Water Quality Board to work in cooperation with the River Raisin Watershed Council and the River Raisin Remedial Action Plan Public Advisory Council. This board will meet quarterly to review the storm water management plan and provide feedback and guidance in an effort to meet the requirements of the storm water permit. Membership on this board will be solicited from the citizens of the member units of government as well as citizens through the county.

**Timetable for Implementation:** No later than **October 15, 2005**.

**Evaluation:** Number of volunteers serving on the board, and activities over the year.

- c. The permittee shall pursue cooperation with local stream or watershed protection organizations, if any exist, by informing them of activities under the storm water management program, providing copies of the storm water management plan and pursuing input on the plan, seeking volunteer assistance including water quality monitoring assistance, and seeking ways to meet general permit requirements by assisting the local organizations with their ongoing programs for resource protection and enhancement.*

**Existing Effort:** No formal effort exists.

**Future Effort:** The Monroe urban area partners will comply with this section by:

- Cooperating with the River Raisin Watershed Council (RRWC). All affected municipal partners are members of the RRWC.
- We shall inform the RRWC of the activities regarding our Phase II requirements.
- Provide the RRWC copies of the storm water management plan.
- Ask for input from the RRWC.
- Seek volunteers from the RRWC for outreach and water quality monitoring programs.

- Advise the RRWC in writing of our wish to continue our support of their programs for resource protection and enhancement.

**Timetable for Implementation:** No later than **October 15, 2005**.

**Evaluation:** An annual survey of the public advisory committee, the River Raisin Watershed Council and the River Raisin Rap will be conducted to gather the feedback necessary for evaluation.

# Monroe Metropolitan Area

## Section B. Storm Water Management Program – Minimum Measures

### 3. Illicit Discharge Elimination Program

The permittee shall develop, implement and enforce a program to prohibit and effectively eliminate illicit discharges, including discharges of sanitary wastewater, to the permittee’s drainage system as defined in Part I.B.3.a. Appropriate BMPs for this minimum measure and measurable goals for each BMP shall be submitted to the Department in accordance with Part I.C.1.

“Illicit discharge” means any discharge (or seepage) to the separate storm water drainage system that is not composed entirely of storm water or uncontaminated groundwater. Examples of illicit discharges include , but are not limited to, dumping of motor vehicle fluids, household hazardous wastes, grass clippings, leaf litter, or animal wastes, or unauthorized discharges of sewage, industrial waste, restaurant wastes, or any other non-storm water waste into a separate storm water drainage system.

“Illicit connections” means a physical connection to the drainage system that 1) primarily conveys illicit discharges into the drainage system or 2) is not authorized or permitted by the local authority (where a local authority requires such authorization or permit).

**The Monroe Metropolitan Area Partners is a group of permittees working together “as one”. The group consists of:**

- 6. The Monroe County Drain Commissioner**
- 7. The City of Monroe**
- 8. Frenchtown Charter Township**
- 9. Monroe Charter Township**
- 10. Raisinville Township**

The Monroe Metropolitan Area permittee’s are customers of the Monroe Metropolitan Wastewater Treatment Facility and have adopted the same language in their Sewer Use Ordinances, as follows:

***“AN ORDINANCE TO APPROVE THE MONROE METROPOLITAN SEWER USE ORDINANCE AND REPEAL ALL ORDINANCES IN CONFLICT THEREOF.***

***THE CITY OF MONROE ORDAINS.***

***CITY OF MONROE ORDINANCE NO. 00-005***

***FRENCHTOWN CHARTER TOWNSHIP ORDINANCE NO. 190***

**MONROE CHARTER TOWNSHIP MONROE ORDINANCE NO. 88-00-1**

**RAISINVILLE TOWNSHIP ORDINANCE NO. 68**

**SECTION 1 - GENERAL PROVISIONS**

**1.1 Purpose and Policy**

*This ordinance sets forth uniform requirements for users of the Publicly Owned Treatment Works for the Monroe Metropolitan Water Pollution Control System and enables the City of Monroe as operator to comply with all applicable State and Federal laws, including the Clean Water Act (33 United States Code § 1251 et seq.) and the General Pretreatment Regulations (40 Code of Federal Regulations Part 403). The objectives of this ordinance are:”... and*

**“SECTION 7 - COMPLIANCE MONITORING**

**7.1 Right of Entry: Inspection and Sampling**

*The Director of Wastewater or his designee shall have the right to enter the premises of any user to determine whether the user is complying with all requirements of this ordinance and any wastewater discharge permit or order issued hereunder. Users shall allow the Director of Wastewater ready access to all parts of the premises for the purposes of inspection, sampling, records examination and copying, and the performance of any additional duties.”...*

**“Section 16 - UNSANITARY DEPOSITS, DISCHARGE TO NATURAL OUTLETS**

**PROHIBITED.**

1. *It shall be unlawful for any person to place, deposit, or permit to be deposited in any unsanitary manner upon public or private property within this public corporation, or in any area under the jurisdiction of this public corporation, any human excrement, garbage or other objectionable waste, excepting animal manure which will be applied to the land.*
2. *It shall be unlawful, when sewage and/or treatment facilities are available, to discharge to any natural outlet within this public corporation, or in any area under the jurisdiction of this public corporation, any sanitary sewage, industrial wastes, or other polluted waters, unless specifically permitted by the applicable county health department.*
3. *It shall be unlawful to construct or maintain any privy, privy vault, septic tank, cesspool or other facility intended or used for the disposal of sewage,*

*unless specifically permitted by the applicable county health department or as hereinafter provided.*

4. *The owner of all houses, building or properties used for human occupancy, employment, recreation or other purposes, situated within this public corporation and abutting on any street, alley, or right-of-way in which there is now located or may in the future be located a public sanitary sewers, is hereby required at his expense to install suitable sewage facilities therein, and to connect such facilities, directly with the proper public sewer in accordance with the provisions of this article, within six (6) months after date of official notice to do so, whenever such connection is required by state law; provided that with respect to any structure erected after December 20, 1985, connection shall be made prior to the occupancy of said structure.”...*

These regulations together with the International Plumbing Code as amended provide the Community with the basic legal tools necessary to conduct investigations, determine sources of illicit discharges and in cooperation with the affected Municipality and possibly local District Court, enforce the corrective actions necessary to terminate the illicit discharges.

At a minimum, the illicit discharge elimination program shall include the following:

- a. The permittee shall submit a listing or map of the known storm water point source discharge. This element of the program shall be submitted with the Notice of intent. City, village or township permittees may take into account that certain MS4s within their political or territorial boundaries are operated by other entities (nested jurisdictions). Location of such MS4s shall be identified in the Notice of Intent for this general permit, with a final list identified in the first annual progress report in accordance with Part I.C.1.a.5.
- b. A schedule for providing, as expeditiously as practicable, a map showing the location of all point source discharges the permittee operates (this includes outfalls to waters of the state and points of discharge into another MS4), a description of the conveyances leading to these point sources, and the names and location of all waters of the state that receives discharges from the drainage system operator by the permittee.
- c. A program to find, prioritize, and eliminate illicit connections and minimize illicit discharges to the municipal drainage system or waters of the state from commercial, industrial, private education, public, and residential sources. Unless a Department approves an alternative approach, the program to find illicit discharges and illicit connections shall include:

- 1) a strategy to conduct routine dry weather screening of enclosed storm water point sources (i.e., outfalls from the separate storm water drainage system to waters of the state and point sources discharging into a separate storm water drainage systems operated by other public bodies); and
  - 2) a plan to reinspect each storm water point source every five years.
- d. A program to limit infiltration of seepage from sanitary sewers and on-site sewage disposal systems into the drainage system, if applicable.

### **Monroe urban area illicit discharge elimination program elements.**

- a. Section B. Storm Water Management Program – Minimum Measures

#### **Part 1, Section B, 3, a.**

- a. The permittee shall submit a listing or map of the known storm water point source discharge. This element of the program shall be submitted with the Notice of intent. City , villages to township permittees may take into account that certain MS4s within their political or territorial boundaries are operated by other entities (nested jurisdictions). Location of such MS4s shall be identified in the Notice of Intent for this general permit, with a final list identified in the first annual progress report in accordance with Part I.C.1.a.5.*

**Existing Effort:** Within the submittal of the Notice of Intent, each permittee of the group (Monroe urban area partners) has prepared and provided mapping and listing of the known point source locations on their respective MS4 systems within their communities.

**Future Efforts:** As inspections are performed annually by the City of Monroe Wastewater Treatment Department staff or others, on the MS4 systems within the metropolitan area systems, any new point source information will be collected and referred to the respective governmental unit to update their maps and listings of point sources.

**Time Table of Implementation:** Point source location information will be generated for **25% of the municipal storm water system each year**. Walking open systems during dry weather and visually inspecting outfalls will identify suspect illicit discharges. The identified illicit outfall locations shall be forwarded to the respective governmental unit. The respective MS4 system maps will be modified with the reported locations and the information will be incorporated into the annual progress report.

**Evaluation:** Frequency of visual screening and inspection, evaluation of point source location information for new locations will be compared to existing information for map updates and revisions.

**Part 1, Section B, 3, b.**

- b. A schedule for providing, as expeditiously as practicable, a map showing the location of all point source discharges the permittee operates (this includes outfalls to waters of the state and points of discharge into another MS4), a description of the conveyances leading to these point sources, and the names and location of all waters of the state that receives discharges from the drainage system operator by the permittee.

**Existing Effort:** Within the submittal of the Notice of Intent, each permittee of the group has prepared and provided mapping and listing of the known point source locations on their respective MS4 systems within their communities.

**Future Efforts:** As inspections are performed annually by the City of Monroe Wastewater Treatment Department staff or others, on the MS4 systems within the metropolitan area systems, any new point source information will be collected and referred to the respective governmental unit to update their maps and listings of point sources.

**Timetable for Implementation:** Point source location information will be generated for 25% of the outfalls that will be screened and visually inspected each year and forwarded to the respective governmental unit to update their MS4 system maps for incorporation into the annual progress report.

**Evaluation:** Frequency of visual screening and inspection, evaluation of point source location information for new locations will be compared to existing information for map updates and revisions.

**Part 1, Section B, 3, c.**

c. A program to find, prioritize, and eliminate illicit connections and minimize illicit discharges to the municipal drainage system or waters of the state from commercial, industrial, private education, public, and residential sources. Unless a Department approves an alternative approach, the program to find illicit discharges and illicit connections shall include:

- 1) a strategy to conduct routine dry weather screening of enclosed storm water point sources (i.e., outfalls from the separate storm water drainage system to waters of the state and point sources discharging into a separate storm water drainage systems operated by other public bodies): and

- 2) a plan to re-inspect each storm water point source every five years.

**Existing Effort:** There is no existing formal or scheduled program being administered by any of the group members to locate, prioritize and or minimize illicit connections or discharges to MS4 systems. Informal actions have occurred whereby the City of Monroe Wastewater Treatment Department staff, Monroe County Drain Commissioner representatives and MDEQ officials respond and investigate spills and or substances visually observed and called in by the general public.

**Future Efforts:**

1. Locating Problem Areas: Illicit connections and discharges to the storm sewer system will be identified and located using the following techniques:
  - City of Monroe Wastewater employees have been trained to conduct proper inspections, storm sewer screening, and test procedures on storm sewer outfalls. Training of Engineering Service, Public Works, Building & Inspection Services and Grounds employees (from all affected Municipalities) will also be given so that those employees will be observant for illicit connections during their daily job duties, so that proper reports can be generated.
  - In the second year of the permit Group Members will identify municipally owned properties in their respective Urban Area. All storm sewers on these properties will be identified and properly located on the storm sewer maps. Further, in the first year the Nested Partners, must conduct a similar file review so that their storm sewers can be identified on the storm sewer maps. Failure to supply such assistance will force us to remove them from our identified nested partner designation.
  - A plan to inspect storm sewers under the jurisdiction of the Wastewater Department will be prepared annually. A yearly report will be prioritized based on the results of visually screening outfalls.
  - Visual screening of a minimum of 25% of the outfalls in the storm sewer system that are under the authority of the Wastewater Department will be done within the first year of the permit. The minimum 25% visual screening will continue each year for 4 years. Visual screening will be conducted under dry weather conditions. Dry weather is defined as periods where there has not been precipitation or snow melt for at a minimum of 2 days. The location screened will be located on the community map of the storm sewers.

- Locations identified by visual screening, complaints, and water quality data as requiring additional actions will be prioritized and revisited during dry weather periods. Outfalls potentially discharging polluting material during dry weather periods will be tested based on water quality problems identified. Screening tests will include flows during dry weather conditions, water clarity and color, presence of foam, oil sheen, trash, and/or floatable materials, presence of bacterial sheen or slimes, staining of the banks outfall structure, and/or vegetation, excessive vegetative growth, and odor. Follow up investigations may require laboratory or field analysis to determine the severity of the problem. Assistance in sample collection and testing will be requested of the MDEQ when a significant pollutant or complex problem is found.

**2. Prioritizing sources: Prioritizing of sources that are discharging polluting material will be as follows:**

- Complaints related to the discharge of polluting materials will be investigated as soon as possible after they are reported. The incident will be investigated to determine the severity of the problem. (See Example MS4 complaint intake form - last page of IDEP)
- Outfalls that have the highest Fecal contamination results will be investigated by visual inspection of the storm drainage system upstream of the outfall. In addition, water sampling and testing may be conducted as necessary to locate the source of the illicit discharge.
- Suspicious discharges, other than bacteria, will be prioritized based on the estimate of the impact on the receiving waters.

Investigation of suspicious discharges will be made by visual inspection and/or testing of discharges within the storm drainage system upstream of the suspicious discharge. Other options that will be considered in locating illicit connections or discharges include chemical and bacterial sampling, television inspection, dye testing, smoke testing, documented visual observation. Letters may be sent to residents and businesses alerting them to the problem, and to solicit their assistance in finding the source. A building by building evaluation may also be necessary when the problem has been isolated to a small area.

**3. Removing / Correcting Illicit Connections:**

Suspicious discharges identified from available water sampling data, complaints and visual inspections will then be prioritized for sampling. Investigations will be made to find the sources of pollutants. Those responsible for illicit discharges will be notified of the necessary corrective actions and given a reasonable amount of time to make corrections. If

corrections are not made within an acceptable period of time (60 days, or more if hardship exists) additional steps will be taken including legal actions.

For illicit sanitary connections found during IDEP investigations, the permittee *will* do the following in order to comply with the permit and the law:

- Report discharges of untreated or partially treated sewage from illicit sanitary connections to the land or into waters of the state with each Annual Report.
- The report should indicate whether the frequency of discharge is periodic or continuous and provide an estimate of the annual volume of discharge.
- The discharge must continue to be reported annually until the illicit connection is eliminated.
- In addition to being reported annually, significant illicit discharges of untreated or partially treated sewage must be reported within 24 hours after discharge begins or is discovered.
- Existing ordinances will be used to address illicit discharges and connections. Assistance may be requested from Monroe County Environmental Health Department or the MDEQ to obtain correction. If current ordinances are not adequate to result in correction of illicit discharges, a new ordinance/s will be evaluated and prepared.
- The Director of Wastewater for the Monroe Metropolitan Area and or the Monroe County Drain Commissioner will manage the IDEP. Wastewater staff, the City of Monroe, Monroe Charter Township, Frenchtown Charter Township, Raisinville Township, the Monroe County Drain Commissioner, Police, Fire, and/or private contractors, may be used to assist in the identification and elimination of Illicit discharges.

## 2. Time Table for Implementation:

A. The IDEP will be implemented within **90 days of program acceptance by the MDEQ.** The IDEP includes the following activities:

- A system to log to investigate, track, and resolve complaints will be in place.
- The storm sewer map will be updated to reflect storm sewers on municipal owned properties.

- Areas in the community will be prioritized for visual screening.
- DPW and Municipal Park employees will receive training on what to look for in the detection of illicit discharges, and about the proper procedure to report suspected illicit discharges. 12-15 employees will be trained each year of the permit, starting in the first year. The Wayne County IDEP training material will be utilized. Such training shall occur no later than **June 15, 2005**.
- A visual screening of 25% of the outfalls will be completed each year of the permit, until completed. The storm sewer maps will be updated annually to reflect areas screened and illicit discharges identified.
- A list of illicit discharges and connections and correction status will be prepared.
- The legal basis for correcting illicit discharges will be reviewed and revisions developed if needed.
- All activities related to this IDEP will be tracked and documented.

B. Each Annual report will include the following:

- A summary report of complaints received, investigated and the results of the investigation will be prepared each year.
- Suspicious outfalls that had a dry weather flow during visual screening will be tested for suspected pollutants.
- A summary report of premises found to be improperly connected to the storm sewer or sanitary sewer will be prepared.
- A summary report of on-site sewage disposal systems found to be improperly functioning and actions taken to correct problems will be prepared.
- An updated list of outfalls, manholes tested, and test results will be prepared.

**Evaluation:** The measurable goals of this program are as follows:

- Meeting the goal of 25% **outfall screening each year**.
- Number of cases of discharges reported and identified, percentage eliminated, percentage of the unit of government effectively free of illicit

discharges or connections.

- Number of personnel or field staff trained.
- Water quality monitoring by MDEQ where applicable.
- Proportion of reported cases successfully resolved or enforced.
- Enactment of new ordinances to strengthen areas of enforcement weakness.

**Part 1, Section B, 3, d.**

**d.** A program to limit infiltration of seepage from sanitary sewers and on-site sewage disposal systems into the drainage system, if applicable.

**Existing Effort:**

Currently all areas identified as the Monroe Urban Area are serviced by the Monroe Metropolitan Wastewater Department (this does not include Municipalities out side the Monroe Metropolitan Area who may not be covered by this program). Some residential units within the Monroe Metropolitan Designation that are located greater than 500 feet from the sewer may not be connected to the Municipal Sanitary Sewer Collection System; these residents have on-site sewage disposal systems (OSDS). The Monroe County Environmental Health Department evaluates permit applications and/or inspects installation of on-site sewage disposal systems (OSDS), also referred to as septic systems. In the case of daily discharges above 10,000 gallons, the MDEQ is the permitting agency. In the case of illicit discharges from such systems the Director of Wastewater will refer the IDEP investigation to the Monroe County Environmental Health Division to mitigate the problem of failing or improperly operating OSDS. Monroe County through the Monroe County Environmental Health Department is currently developing an Ordinance to require evaluation of septic systems and corrective actions where necessary, at the time of sale of the residence.

**Future Efforts:** As IDEP inspections are performed, any new infiltration or ex-filtration point source information will be collected and referred to the respective governmental units for the proper corrective action. If overflows of sanitary sewer manholes or cross connections to a storm sewer are detected, they will be addressed as part of the community's maintenance program. On-site sewage disposal systems will be addressed through the proper Agencies.

**Timetable for Implementation:** Ongoing.



**MS4 Investigation  
Complaint Intake Form**

**Date Call was Received:** \_\_\_\_\_

**Time:** \_\_\_\_\_

**Caller's  
Name:** \_\_\_\_\_

**Caller's Address:**  
\_\_\_\_\_

**Phone Number:** \_\_\_\_\_

**Address of Complaint:**  
\_\_\_\_\_  
(if different from above)

**Complaint/Description of Event (include history, duration of time, license plate #,  
vehicle description, location of catch basin or water way):**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Date of Discovery of Event:** \_\_\_\_\_

**Complaint Taken By:** \_\_\_\_\_

**Investigated By:** \_\_\_\_\_

**Is this in the Urban Area?**      \_\_\_\_\_ **Yes**                      \_\_\_\_\_ **No**

**If no, who should be notified?** \_\_\_\_\_

**Findings:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Action:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Complainant Contacted: Date** \_\_\_\_\_ **Time** \_\_\_\_\_

**Urban Partner Contacted: Date** \_\_\_\_\_ **Time** \_\_\_\_\_

**Any sampling required (list)**  
\_\_\_\_\_  
\_\_\_\_\_

**Sampling Results**  
\_\_\_\_\_  
\_\_\_\_\_

**Completed**  
**By:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Forwarded**  
**to:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Is Enforcement Action Needed?** \_\_\_\_\_

If yes, what is next step? \_\_\_\_\_

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## Monroe Metropolitan Area

### Section B. Storm Water Management Program – Minimum Measures

#### 4. Post Construction Storm Water Management Program for New Development and Redevelopment Projects

The permittee shall develop, implement and enforce a program to address storm water discharges into the drainage system from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale that would disturb one acre or more. The program shall ensure that controls are in place that will prevent or minimize water quality impacts. Appropriate BMPs for this minimum measure and measurable goals for each BMP shall be submitted to the Department in accordance with Part I.C.1.a.

Under the program for new development and redevelopment projects, the permittee shall:

- a. Develop and implement a comprehensive storm water management plan for development, implementation, and enforcement of controls across the permittee's entire urbanized area to protect the designated uses in all receiving waters from the effects commonly associated with urbanization. Common effects of urbanization to be considered under the comprehensive management plan include stream "flashiness" (higher peak flow and lower base flow), stream-bank erosion, increased stream temperature and pollutant load, reduced stream-bank vegetation, and degraded fish and aquatic habitat. Example comprehensive management plan controls for prevention of impacts from urbanization include policies and ordinances that provide requirements and standards for directing growth to identified areas, protecting sensitive areas such as wetlands and riparian areas, maintaining and/or increasing open space (including a dedicated funding source for open space acquisition), encouraging infill development in higher density urban areas and areas with existing infrastructure, establishing in-stream maximum flow targets designed to minimize stream bank erosion and maintaining healthy fish populations, and coordinating release volumes and rates from detention basins to achieve in-stream maximum flow targets.

- b. Develop and implement ordinances or other regulatory mechanisms to address post construction storm water runoff from new development projects to the extent allowable under state and local law. Objectives of the ordinances or other regulatory mechanisms should be to protect receiving water quality from the impacts of development. The ordinances or other regulatory mechanisms shall include the following:
  - 1. Requirements for implementation of appropriate on-standard and/or structural BMPs. Non-standard BMPs are preventative actions that involve management and source controls. Examples include: buffer preservation along water bodies, establishment of easements for vegetative filters and infiltration, education programs for developers and the public about project designs that minimize water quality impacts, minimum disturbance of soils and vegetation, planting native vegetation, restrictions on directly connected impervious areas, and incentives for reducing imperviousness. Structural BMPs are physical controls that improve water quality, including storage practices. Examples of structural BMPs include: wet ponds and extended-detention outlet structures; vegetative buffers; filtration practices such as grassed swales, sand filters and filter strips; and infiltration practices such as infiltration basins, bioinfiltration, infiltration trenches, rain gardens, and infiltration islands in parking lots.
  - 2. Requirements for adequate long-term operation and maintenance of BMPs.
  - 3. Requirements to control sediment discharges from new developments and redevelopments that result from soil erosion after the local soil erosion and sedimentation permit and the State of Michigan's Permit by Rule are no longer in effect.
  - 4. Requirements for regulating the rate at which storm water flows into the drainage system.
- c. Develop and implement a process for review of post-construction storm BMPs in initial site plans, as applicable.
- d. Minimize the occurrence of illicit discharges and spills into drainage system by reviewing site plans for commercial operations to ensure that storm drainage inlets are adequately isolated from pollutant sources. Equipment washing and waste material handling shall not result in discharge of waste to the drainage system. Polluting materials, as defined in Part 5 Rules (Rules 324.2001 through 324.2009 of the Michigan Administrative Code), shall be stored only in

areas that provide secondary containment in accordance with state and federal law.

## **Permit required elements.**

The Monroe Metropolitan Area is a group of permittees working together “as one”. The group consists of:

1. The Monroe County Drain Commissioner
2. The City of Monroe
3. Frenchtown Charter Township
4. Monroe Charter Township
5. Raisinville Township

### **3. Section B. Storm Water Management**

#### **Post Construction Storm Water Management Program for New Development and Redevelopment Projects**

##### **Part I. Section B. 4.a.**

*a. Develop and implement a comprehensive storm water management plan for development, implementation, and enforcement of controls across the permittee’s entire urbanized area to protect the designated uses in all receiving waters from the effects commonly associated with urbanization. Common effects of urbanization to be considered under the comprehensive management plan include stream “flashiness” (higher peak flow and lower base flow), stream-bank erosion, increased stream temperature and pollutant load, reduced stream-bank vegetation, and degraded fish and aquatic habitat.*

**Existing Effort:** Monroe Urban Area Partners have existing Land use and Zoning Ordinances as well as Zoning Master Plans that regulate existing and proposed land uses within the units of government. These ordinances have provisions to direct development into specific areas best suited to handle such developments. These Master Plans are required to be updated every five years to remain in compliance with local and state regulations.

**Future Efforts:** All Monroe Urban Area Partners will need to initiate a review process of their existing Land Use Ordinances and their Master Plans to determine if revisions are needed to incorporate storm water management BMP. As the required changes are identified, the process and procedures established

by the unit of government will be followed to update and revise the respective Ordinances and Master Plans.

**Evaluation:** Number of ordinance and master plan reviews and revisions in compliance with the following timetable of implementation.

**Timetable of implementation:** No later than **October 15, 2006**, the Monroe Urban Area Partners will review and evaluate their Zoning Ordinances and Land use Master Plans for revisions needed to incorporate storm water management BMPs. In year three of the permit, the Urban Partners will initiate the local area process and procedures to amend their Ordinances and Master Plans.

**b. *Develop and implement ordinances or other regulatory mechanisms to address post construction storm water runoff from new development projects to the extent allowable under state and local law. Objectives of the ordinances or other regulatory mechanisms should be to protect receiving water quality from the impacts of development.***

**Existing Effort, Part 1:** The Monroe County Drain Commissioner currently has limitations of the discharge flow volumes allowed from development sites. These regulations result in detention being required for most sites within the County of Monroe.

**Future Efforts, Part 1:** The Monroe County Drain Commissioner will review the existing regulations and site inspection procedures to determine whether there is a need to revise this regulation or inspection procedures to meet the storm water management BMPs.

**Evaluation, Part 1:** Implementation of new regulations, forms and procedures for site plan review and inspection personnel. Any modification and / or changes to the Monroe County Drain Commissioner program will require State approval.

**Timetable of implementation, Part 1:** On going.

**Existing Effort, Part2:** All Monroe Urban Area Partners have little to no regulatory measures in place to monitor and or enforce post construction storm water runoff.

**Future Effort, Part 2:** All Monroe Urban Area Partners in cooperation with the Monroe County Drain Commissioner will evaluate existing ordinances and determine what new ordinance regulations are needed to provide for monitoring and enforcement measures that will best cover post construction BMPs. These regulations will require new developments to provide operation and maintenance plans and procedures that are required by this section.

**Evaluation:** Number of Ordinances reviewed and changed to reflect the requirements of this section.

**Timetable of implementation:** No later than **October 15, 2006**, all Urban Partners and the Monroe County Drain Commissioner will evaluate and review existing ordinances, site plan review and engineering standard requirements to establish new ordinance needs. In year three of the permit, procedures will be initiated to draft new language and adopt new ordinances to meet the requirements of this section.

**c. *Develop and implement a process for review of post-construction storm BMPs in initial site plans, as applicable.***

**Existing Efforts:** All Monroe Urban Area Partners have in place site plan review procedure to access and regulate site developments within their units of government.

**Future Efforts:** All Monroe Urban Area Partners shall review their site plan review regulations and procedures to establish where revisions are needed for compliance with this section. The Urban Area Partners will enact new site plan requirements to provide for monitoring, maintaining and enforcing post construction BMP's. The Urban Area Partners in cooperation with the Monroe County Drain Commissioner will enforce the regulations in regards to adherence to construction and post construction soil erosion and sedimentation requirements.

**Evaluation:** Ordinances enacted, implementation of forms, procedures and designation of new enforcement personnel.

**Timetable of implementation:** No later than **October 15, 2006**, all Urban Partners and the Monroe County Drain Commissioner will evaluate and review existing ordinances, site plan review and engineering standard requirements to establish new regulation needs. In year three of the permit, procedures will be initiated to draft new language and adopt new regulations to meet the requirements of this section.

**d.** Minimize the occurrence of illicit discharges and spills into drainage system by reviewing site plans for commercial operations to ensure that storm drainage inlets are adequately isolated from pollutant sources. Equipment washing and waste material handling shall not result in discharge of waste to the drainage system. Polluting materials, as defined in Part 5 Rules (Rules 324.2001 through 324.2009 of the Michigan Administrative Code), shall be stored only in areas that provide secondary containment in accordance with state and federal law.

**Existing Effort:** All Monroe Urban Area Partners have in place site plan review procedure to assess and regulate site developments within their units of government. The site plan review procedures covers and applies commercial site developments. Within the site plan review process, evaluations are made concerning storage and use of hazardous materials on the site.

**Future Efforts:** The Monroe Urban Area Partners will continue their efforts of evaluating for hazardous materials within all site plan reviews. No later than **October 15, 2006**, each Urban Partner will review their site plan review regulations and procedures to assess the need to revise their procedures to include protection and isolation and containment of any pollutants as defined by Part 5 Rules (Rules 324.2001 through 324.2009 of the Michigan Administrative Code) on site from entering any sanitary (unless permitted) or storm drainage system.

**Evaluation:** Ordinances enacted, implementation of revised site plan checklist forms, procedures and designation of new enforcement personnel.

## Monroe Metropolitan Area

### Section B. Storm Water Management Program – Minimum Measures

#### 5. Construction Storm Water Runoff Control

Storm water discharges from construction activity that result in land disturbance of greater than or equal to one acre, or disturb less than one acre but are part of a larger common plan of development or sale that would disturb one acre or more.

- a. Qualifying Local and State Soil Erosion and Sedimentation Controls:  
The permittee shall prohibit storm water discharges into MS4s from construction activities that are not in compliance with the following requirements of the State of Michigan's Permit by Rule(Rule 323.2190):
  - 1) The construction site developer or recorded easement holder shall be subject so soil erosion and sedimentation control requirements under Part 91 of the Michigan Act 451, as amended.
  - 2) The construction site developer or record easement holder shall control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality.
  - 3) Potential water quality impacts shall be considered during site plan reviews for construction activities.
  - 4) Sites shall be inspected during construction and control measures shall be enforced.
- b. Additional Construction Controls:  
The permittee shall develop, implement and enforce a program to address storm water runoff from areas of construction activity that discharge into the permittee's separate storm water drainage system. Appropriate BMPs for this minimum measure and measurable goals for each BMP shall be submitted to the Department in accordance with Part I,C.1.a.

Under the Construction Storm Water Runoff Control Program, the permittee shall:

- 1) Notify the appropriate Soil Erosion and Sedimentation Control Agency and the Department verbally, within 24 hours, if a construction activity results in a deposit or imminent threat to deposit solids or other waste materials into the drainage system that may endanger health or the environment. Any other soil erosion or sedimentation violations at regulated construction sites shall be reported in accordance with Part I.C.2.a. of this general permit.
- 2) Review preliminary site plans to ensure that adequate space will be allotted for soil erosion and sedimentation controls during construction as well as permanent storm water controls, as appropriate.
- 3) Have a procedure to receive and provide follow up complaints or other information submitted by the public regarding construction site storm water runoff leading to the drainage system. This requirement may be met in conjunction with the illicit discharge reporting hotline in Part I.B.1.a.

## **Permit required public involvement program elements.**

**The Monroe Metropolitan Area is a group of permittees working together “as one”. The group consists of:**

1. **The Monroe County Drain Commissioner**
2. **The City of Monroe**
3. **Frenchtown Charter Township**
4. **Monroe Charter Township**
5. **Raisinville Township**

## **4. Section B. Storm Water Management**

### **Construction Storm Water Runoff Control**

#### **Part I. Section B. 5.a.**

*a. The permittee shall prohibit storm water discharges into MS4s from construction activities that are not in compliance with the following requirements of the State of Michigan’s Permit by Rule(Rule 323.2190). The construction site developer or recorded easement holder shall be subject so soil erosion and sedimentation control requirements under Part 91 of the Michigan Act.*

**Existing Effort:** The Monroe County Drain Commissioner is the County enforcement agency under Part 91 of Michigan Act 451 as amended. Under the Monroe Urban Area Partners Zoning Ordinances, Site Plan Review Procedures and the International Building Code, all developers are required to secure Soil Erosion and Sedimentation Permit from the Monroe County Drain Commissioner

prior to obtaining building permits and/or starting construction activities involving earth disruption, grading and/or site clearing.

**Future Effort:** The Monroe County Drain Commissioner's Soil Erosion and Sedimentation Program will be continued and it applies throughout the Monroe Metropolitan Urban Area.

**Evaluation:** Yearly comparison of soil erosion permits for rate of compliance and violations.

**Timetable of implementation:** On going.

*b. The permittee shall develop, implement and enforce a program to address storm water runoff from areas of construction activity that discharge into the permittee's separate storm water drainage system. Appropriate BMPs for this minimum measure and measurable goals for each BMP shall be submitted to the Department in accordance with Part I,C.1.a.*

**Existing Effort, Part A:** The Monroe County Drain Commissioner is the County enforcement agency under Part 91 of Michigan Act 451, as amended. Under the Monroe Urban Area Partners Zoning Ordinances, Site Plan Review Procedures and the International Building Code, all developers are required to secure Soil Erosion and Sedimentation Permit from the Monroe County Drain Commissioner prior to obtaining building permits and/or starting construction activities involving earth disruption, grading and/or site clearing. This program applies throughout the Monroe Metropolitan Urban Area whether located in the or out of the identified urban area.

**Future Efforts, Part A:** The Monroe County Drain Commissioner's Soil Erosion and Sedimentation Program will be continued and it applies throughout the Monroe Metropolitan Urban Area. Further, each partner will review existing ordinances, site plan approval procedures and building code regulations to add BMP requirements where applicable.

**Evaluation, Part A:** Enactment of BMP requirement sections to update ordinances.

**Timetable of implementation, Part A:** 2005 – 2006

**Existing Effort, Part B:** The Monroe Metropolitan Area Partners all have staff that performs site plan review procedures to assure that regulations and requirements of the unit of government are being met on all site development considerations.

**Future Efforts, Part B:** As ordinances and site plan requirements are updated with BMP requirements, the site plan review staff and inspection staff will be trained to enforce the new requirements.

**Evaluation, Part B:** Maintain and increase the number of qualified plan review and enforcement staff.

**Timetable of implementation, Part B:** 2005 – 2006

**Existing Effort, Part C:** Calls from the public concerning soil erosion and sedimentation issues are currently redirected to the Monroe County Drain Commissioner for investigation and enforcement.

**Future Efforts, Part C:** The procedures of taking telephone concerns and complaints from the public on the 24 hour hotline established in the IDEP plan will be implemented. Action will also be taken to notify the Monroe County Drain Commissioner and the State of Michigan if applicable.

**Evaluation, Part C:** Telephone complaint forms will be evaluated as to the number of Soil Erosion and sedimentation issues reported and will be compared to information collected in previous years.

## **Monroe Metropolitan Area**

### **Section B. Storm Water Management Program – Minimum Measures**

#### **6. Pollution Prevention/Good Housekeeping for Municipal Operations**

Municipal operations cover a wide variety of activities and land uses that are potential sources of storm water pollutants. These include but are not limited to roadways; parking lots; transportation and equipment garages; warehouses; stockpiles of salt and other raw materials; open ditches and storm sewers; turf and landscaping for administrative, recreation, and park lands; and waste handling and disposal areas.

The permittee shall develop, implement, and ensure compliance with a program of operation and maintenance BMPs with the ultimate goal of preventing or reducing pollutant runoff from municipal operations to the maximum extent practicable. The permittee shall ensure that employees properly handle wastes, recyclables, chemicals, and equipment used on the job; maintain clean work areas; regularly maintain storm water controls; and identify and report various storm water pollution sources including illicit discharges, malfunctioning post-construction controls, and poor soil erosion and sedimentation controls at construction sites. The permittee shall provide guidance or operation manuals, employee training and testing, equipment, and any other resources necessary to prevent and reduce storm water pollution through proper implementation of BMPs in accordance with this minimum measure. The program may be developed and implemented using BMP guidance and training materials that are available from federal, state and local agencies, or other organizations. Appropriate BMPs for this minimum measure and measurable goals for each BMP shall be submitted to the Department in accordance with Part I.C.1.a.

The program, and all approved updates, shall meet the following requirements:

- a. **Structural Controls:**  
Structural controls such as storm drain catch basin, vegetated swales, infiltration basins, sedimentation basins, and any controls installed or operated by the permittee to remove pollutants from storm water shall have routine maintenance, maintenance schedules, and long-term

inspection procedures adequate to provide pollution removal effectiveness to the maximum extent practicable. Structural controls and cleaning schedules may need to be added or enhanced in the future if existing structural or non-structural measures fail to adequately reduce the discharge of sediments, floatables and other pollutants that may be found in or discharging to or from drainage systems.

The permittee shall describe and implement procedures for the proper disposal of operation and maintenance waste such as dredge spoil, accumulated sediments, floatables, and other debris the permittee removes from the drainage system. Wastes removed from a catch basin sump or other parts of a storm water drainage system shall not be discharged in a manner that would result in a violation of water quality standards.

b. Roadways

The permittee shall construct, operate and maintain its streets, roads, highways, parking lots and other large paved surfaces in a manner so as to reduce the discharge of pollutants, including those related to deicing activities, into the drainage system.

The permittee shall, at a minimum, maintain effective street cleaning and catch basin maintenance programs. The street cleaning and maintenance program, catch basin maintenance program, and illicit discharge elimination program shall be part of an overall plan to reduce the discharge of sediments, floatables, and associated pollutants into the roadway drainage system. Salt and sand applied for improved traction shall be prevented from entering receiving streams to the maximum extent practicable. Good housekeeping shall be required at salt and sand storage facilities to eliminate discharge of salt and sand from these areas.

The permittee shall not discharge to waters of the state any wastewater generated from cutting, grinding, drilling, or hydrodemolition of concrete or asphalt without authorization under an NPDES wastewater discharge permit.

c. Fleet Maintenance

The permittee shall assure that vehicle maintenance activities do not pollute storm water runoff. Vehicle maintenance activities include adding or changing fluids including fuel, lubrication, mechanical repairs, parts degreasing, and vehicle or equipment washing. Discharge of wash water is not authorized by this general permit. Vehicles and equipment shall be maintained for clean and effective operation to prevent impacts on storm water quality.

d. Storm Sewer Labeling

The permittee shall provide permanent identification (e.g., label, color coding, or other identifying characteristic) for any outfall structure that the permittee constructs or installs after March 10, 2004, that discharge storm water to waters of the state. Following the addition of permanent identification, the primary operator of the drainage system shall be readily identifiable by observation of the outfall structure.

- e. **Flood Control Projects**  
The permittee shall ensure that new flood management projects assess the impacts on the water quality of the receiving water and, wherever possible, shall examine existing projects for incorporation of additional water quality protection BMPs.
- f. **Pesticides and Fertilizers**  
The permittee shall minimize the discharge of pollutants related to the storage, handling and use of pesticides, herbicides, and fertilizers on land that the permittee manages. BMPs required under this measure include a turf management plan for maintaining public lands and parks, employee training, and soil testing for nutrients (nitrogen/phosphorus/potassium) to determine appropriate fertilizer usage on all lands that the permittee maintains by adding fertilizers. Fertilizers shall be applied only in accordance with recommendations based on soil test results.

## **Permit required public involvement program elements.**

**The Monroe Metropolitan Area is a group of permittees working together “as one”. The group consists of:**

- 1. The Monroe County Drain Commissioner**
- 2. The City of Monroe**
- 3. Frenchtown Charter Township**
- 4. Monroe Charter Township**
- 5. Raisinville Township**

## **5. Section B. Storm Water Management**

### **Pollution Prevention/Good Housekeeping for Municipal Operations**

#### **Part I. Section B. 6.a.**

##### **a. Structural Controls**

**Existing Effort:** Currently the Monroe Urban Group Partners have no Structural Control Devices except for storm drain catch basins.

**Future Effort:** As new Control Devices are constructed, each Monroe Urban Group Partner shall develop a program providing for routine maintenance, maintenance schedules, and long-term inspection procedures adequate to provide pollution removal effectiveness to the maximum extent practicable for any Structural controls such as storm drain catch basins, vegetated swales, infiltration basins, sedimentation basins, and any storm water control devices installed or operated by the permittee. The Monroe Area Urban Partners In cooperation with the Monroe County Drain Commissioner and where applicable, will establish a maintenance and cleaning schedule for all drain structures operated by the permittee and shall prescribe requirements for disposal of the debris cleaned from the storm sewer system.

## 6. Evaluation

Development of a maintenance and cleaning schedule, along with proper debris disposal practices. Reporting annually of cleaning and maintenance activities.-

### Implementation Schedule

No later than **July 31, 2006** (the second year of the permit) each Monroe Urban Group Partner in cooperation with the Monroe County Drain Commissioner, where applicable, shall describe and implement a cleaning schedule and procedures for the proper disposal of operation and maintenance of waste, such as; dredge spoil, accumulated sediments, floatable, and other debris the permittee removed from the drainage system. Wastes removed from a catch basin sump or other parts of a storm water drainage system shall not be discharged in a manner that would result in a violation of water quality standards. Such a plan will be developed within the second year of the permit, and shall be incorporated into each Monroe Urban Group Partner standard operating procedures.

#### b. Roadways

**Existing Effort:** Currently of the Monroe Area Urban Partners, The City of Monroe is the only partner that owns operates and maintains roadways within their municipality. The City of Monroe currently follows and standard operation and maintenance schedule for their roadways and storm drainage system.

**Future Effort:** The Monroe Urban Area Partners, where applicable, shall construct, operate and maintain its streets, roads, highways, parking lots and other large paved surfaces in a manner so as to reduce the discharge of pollutants, including those related to deicing activities, into the drainage system. The permittee shall not discharge to waters of the state any wastewater generated from cutting, grinding, drilling or hydrodemolition of concrete or asphalt without authorization under a NPDES wastewater discharge permit. The street cleaning and maintenance program, catch basin maintenance program, and illicit discharge elimination program shall be parts of an overall plan to reduce the discharge of sediments, floatable, and associated pollutants into the roadway

drainage system. The judicious application of salt and sand shall be applied for improved traction to prevent excess de-icing material from entering receiving streams to the maximum extent practicable. Good housekeeping shall be required at salt and sand storage facilities to eliminate discharge of salt and sand from these areas.

**Evaluation:** Structures inspected, cleaned and problems identified and eliminated.

**Timetable of Implementation:** Where applicable, such a plan will be developed no later than **October 15, 2006**, and shall be incorporated into each Monroe Urban Group Partners standard operating procedures.

c. Fleet maintenance

**Existing Effort:** Each Monroe Area Urban Partner follow fleet maintenance in accordance with their respective standard operating procedures.

**Future Efforts:** Where applicable, each Monroe Urban Group Partner shall assure that vehicle maintenance activities and standard operating procedures do not pollute storm water runoff. Vehicle maintenance activities include adding or changing fluids such as fuel, lubrication, mechanical repairs, parts degreasing, and vehicle or equipment washing will not be permitted to drain to the storm water system. Discharge of wash water is not authorized by this general permit. Vehicles and equipment shall be properly maintained in an effort to prevent impacts on storm water quality. To ensure that items in this section are in compliance with the program, the Monroe Metropolitan Wastewater Department will work with each Monroe Urban Area partner's Municipal Facility and or Department to develop a Storm Water Management Program to protect pollutants from entering the storm drainage system.

**Evaluation:** Problems identified and eliminated.

**Implementation Schedule:** Where applicable, such a plan will be developed no later than **October 15, 2006**, and shall be incorporated into each Monroe Urban Group Partners standard operating procedures.

d. Storm Sewer Labeling

**Existing Effort:** There is no existing effort by the Monroe Urban Area Partners to provide labeling of storm drainage structure or outfalls.

**Future Effort:** Each Monroe Urban Group Partner shall provide permanent identification (e.g., label, color coding, or other identifying characteristic) for any new outfall structure that the permittee constructs or installs after **March 10, 2004**.

**Evaluation:** Compliance demonstrated by inspection and drainage map updates with outfall labeling information.

**Implementation Schedule**

Storm sewer outfalls installed after **March 10, 2004** will be labeled as required in this section.

e. Flood Control Projects

**Existing Effort:** There are no existing flood control projects or systems located within the Monroe Urban Area.

**Future Effort:** Each Monroe Urban Group Partner shall ensure that new flood management projects assess the impacts on the water quality of the receiving water and, whenever possible, shall examine existing projects for incorporation of additional water quality protection BMPs. All new flood management projects owned or operated by the Monroe Urban Group Partners shall adhere to this section.

**Evaluation: Storm Water Management BMPs placed in flood control projects will be confirmed by site inspection and records filed at each Monroe Urban Area Partners municipality.**

**Implementation Schedule:** In the second year of the permit and there after, such BMPs shall be inspected and records maintained at each Monroe Urban Area Partner's municipality offices.

f. Pesticides and Fertilizers

**Existing Effort:** Each Monroe Urban Area Partner has in place standard operating procedures that cover the use, storage, handling and application of pesticides and fertilizers.

**Future Effort:** Each Monroe Urban Group Partner will review and assess their existing standard operating procedures to minimize the discharge of pollutants related to the storage, handling and use of pesticides, herbicides, and fertilizers on land that the permittee manages. Each Monroe Urban Group Partner shall review and revise their turf management plan for maintaining public lands and parks, employee training and soil testing for nutrients (nitrogen/phosphorus/potassium) to determine the appropriate fertilizer application rate. Fertilizers shall be applied only in accordance with recommendations based on soil test results.

**Evaluation:** Report the quantity of fertilizers applied each year and compare to previous year applications to determine whether reductions in application occurred and that applications are in accordance with the soil test report.

**Implementation Schedule:** Where applicable, such a plan will be developed no later than **October 15, 2006**, and shall be incorporated into each Monroe Urban Group Partners standard operating procedures. Staff training will consist of proper pesticide and fertilizer application. A one day MS4 training seminar is planned for compliance with this section and will be conducted no later than **October 15, 2006**.