

City of Hamilton
BUTLER COUNTY OHIO



Storm Water Management Program

*In Accordance with Ohio EPA MS4 Permit
Number: OHQ000004*

March 2022

Prepared By:



Certification

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



Joshua Smith, City Manager
City of Hamilton

City of Hamilton, Ohio Storm Water Management Program

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Executive Summary

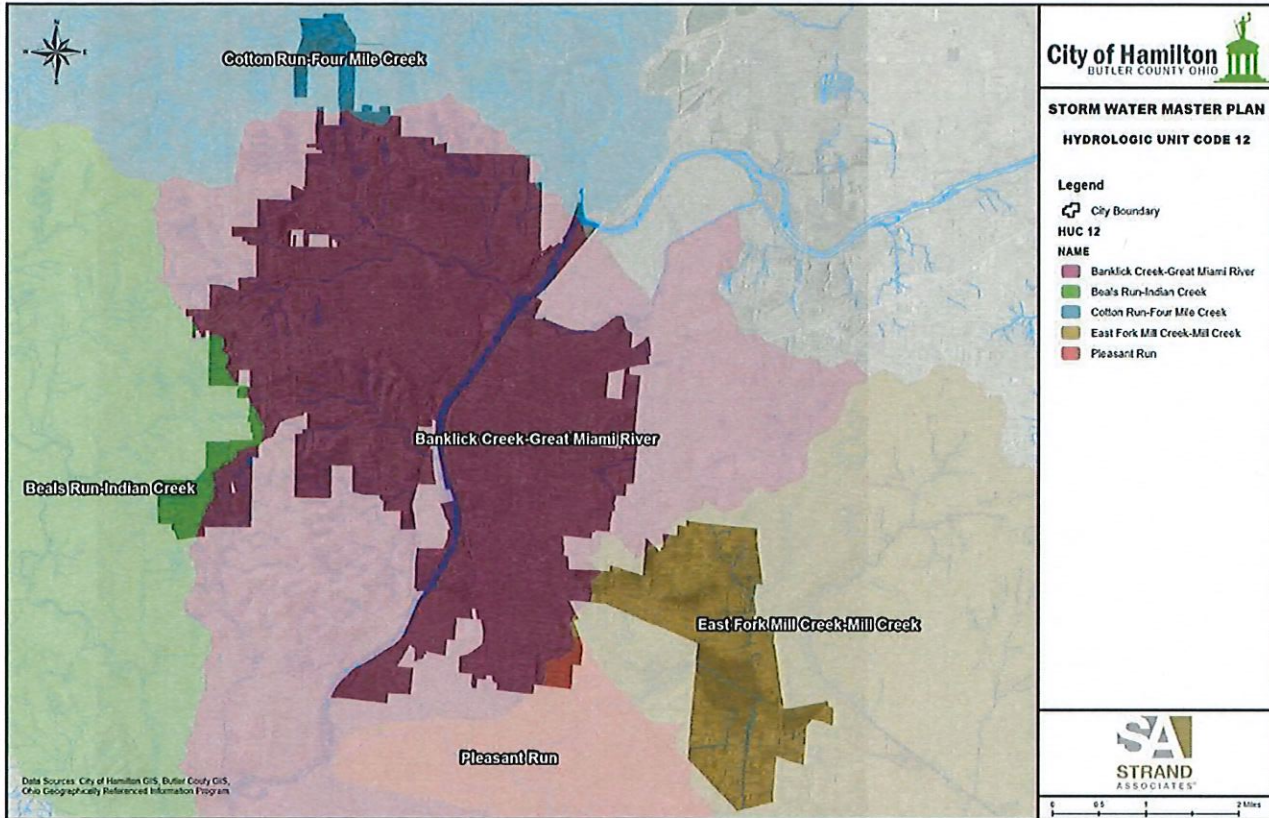
The previous National Pollutant Discharge Elimination System (NPDES) permit for authorization for small Municipal Separate Storm Sewer Systems (MS4s) to discharge storm water (NPDES Permit No. OHQ000003) required the development and implementation of a Storm Water Management Program (SWMP) that satisfied the appropriate water quality requirements of Ohio Revised Code (ORC) 6111 and the Clean Water Act. The SWMP document is intended to identify and describe the best management practices (BMPs) selected by the City of Hamilton (City) to meet the requirements of the six minimum control measures (MCMs) described in the permit, why those BMPs were selected in light of local water quality issues, and performance standards for BMP implementation. The six MCMs are:

1. Public Education and Outreach on Storm Water Impacts
2. Public Participation / Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Storm Water Runoff Control
5. Post-Construction Storm Water Management in New Development and Redevelopment
6. Pollution Prevention / Good Housekeeping for Municipal Operations

The NPDES small MS4 permit was reissued on April 1, 2021 (NPDES Permit No. OHQ000004) and requires MS4 communities which are renewing coverage under this permit to update their SWMP to be consistent with the permit and submit the updated SWMP to Ohio EPA (OEPA) by April 1, 2022. The permit term is five years, expiring on March 31, 2026. Permit No. OHQ000004 requires that where applicable, BMPs shall be selected to address U.S. EPA approved Total Maximum Daily Load (TMDL) recommendations for identified water quality problems associated with MS4 discharges within the City of Hamilton's watershed(s).

Total Maximum Daily Load (TMDL) Overview

The MS4 Permit requires that where applicable, BMPs shall be selected to address U.S. EPA approved TMDL recommendations. The City of Hamilton service area overlaps with five 12-digit hydrologic unity code (HUC-12) watersheds as shown on the following map.



At this time, there are approved TMDLs for the City of Hamilton in the East Fork Mill Creek- Mill Creek (Ohio) watershed. The approved TMDLs are dissolved nitrogen and total phosphorus (TP). Information on each individual HUC-12 watershed and respective current TMDLs status is described in the table below. For those watersheds without a TMDL, the latest findings from water quality studies are reported.

Watershed	HUC 12	Status of TMDL	Pollutants for TMDL	Sources / Notes
Cotton Run - Four Mile Creek	050800020605	TMDL report is in preparation.	Not yet published.	Four Mile Creek watershed assessment unit was assessed in 2005. The Final Study Plan for the 2005 Biological and Water Quality Study of Fourmile Creek, Indian Creek, and Select Tributaries was published by OEPA in April 2008. ²
Great Miami River (Lower)	Banklick Creek - Great Miami: 050800020902 Pleasant Run: 050800020901	TMDL report will be prepared after the conclusion of further study.	Not yet published, although nutrients listed as a special issue. ¹	The Great Miami River (Lower) watershed was studied during 2010. The Final Study Plan for the 2010 Biological and Water Quality Survey was published by OEPA in May 2010. ¹ A Loading Analysis Plan needed for further TMDL development was developed in 2021.
Beals Run - Indian Creek	050800020803	TMDL report does not need to be prepared for this watershed.	The Indian Creek watershed is not included on Ohio's list of impaired waters.	OEPA released a water quality study of Indian Creek based on data collected in 2005 that showed sample results within the City boundaries achieved full attainment. ²
East Fork Mill Creek- Mill Creek	050902030101	Approved in April 2005 ³	Addresses dissolved nitrogen and total phosphorous ³	Additionally, the watershed was studied again in 2014. For follow-up report see Biological and Water Quality Study of the Southwest Ohio River tributaries, 2014. ⁴ A Loading Analysis Plan needed for further TMDL development was developed in 2020.

¹ http://epa.ohio.gov/portals/35/tmdl/monitoring_GMRStudyPlan2010.pdf

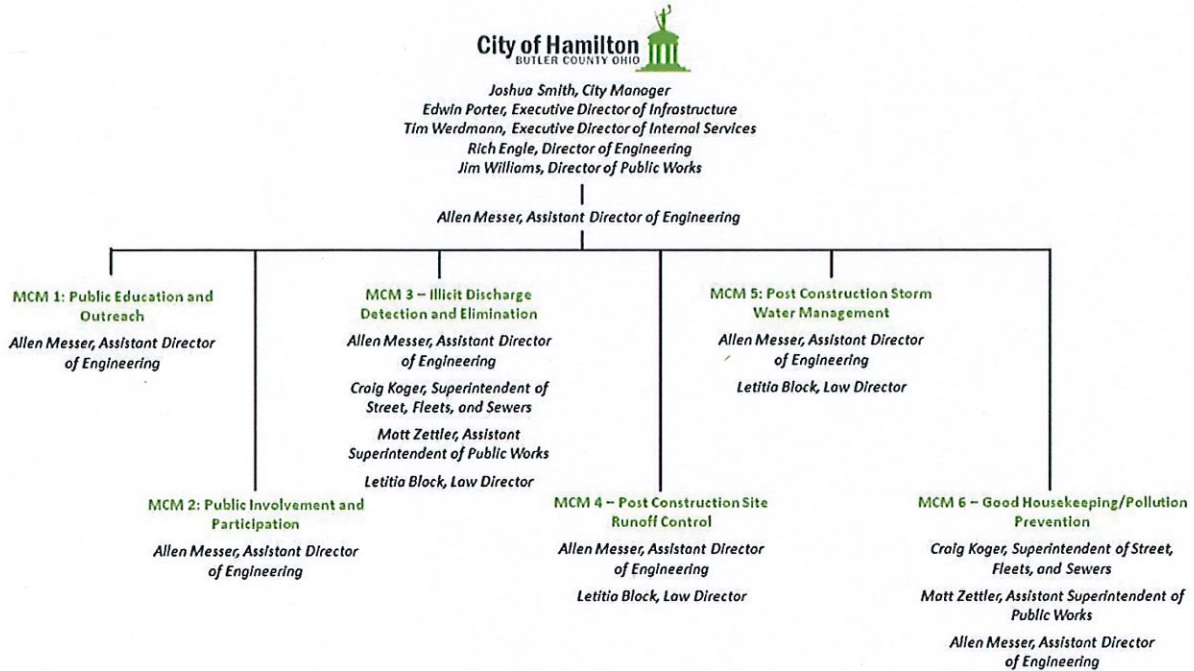
² <http://epa.ohio.gov/portals/35/documents/FourmileIndianTSD2008.pdf>

³ http://epa.ohio.gov/portals/35/tmdl/Mill_Creek_sep04_final.pdf

⁴ <http://epa.ohio.gov/portals/35/documents/SWORT%20TSD%202014.pdf>

Organizational Chart

The following organizational chart provides a visual representation of how the City of Hamilton will accomplish the goals outlined in this Storm Water Management Program. Partnerships with other local storm water groups will enhance specific components of the storm water management program, but the City will ultimately be responsible for implementing tasks associated with each of the six MCMs. Such groups include the Miami Conservancy District, the Regional Stormwater Collaborative and the Groundwater Consortium.



Minimum Control Measure 1: Public Education and Outreach on Storm Water Impacts

Minimum Control Measure 1: Public Education and Outreach on Storm Water Impacts

The City of Hamilton’s MS4 permit requires the public education and outreach efforts to accomplish the following:

Shall implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff.

Performance Standards: Program shall include more than one mechanism and at least five different storm water themes or messages over the permit term. If the MS4 discharges to a watershed with a U.S. EPA approved TMDL, at a minimum target each TMDL pollutant identified at least once in the storm water themes or messages over the permit term. Program shall reach at least 50% of the population.

The following tables outline the best management practices (BMPs) selected by the City of Hamilton to accomplish MCM 1. The five themes the City will focus on include: (1) Nutrient Pollution with focus on dissolved nitrogen and total phosphorus, (2) Sediment Pollution / Erosion Control, (3) Residential Storm Water Management (4) Litter and Trash, and (5) Hazardous Waste Disposal. The City anticipates these outreach strategies will reach well beyond 50 percent of the population within its service area during the permit term. The City has the legal authority to implement all identified BMPs.

BMP Type: Multi-Media Outreach		
<p>Description of BMP: The City and its partner organizations (Ground Water Consortium, the Miami Conservancy District, and the Regional Stormwater Collaborative) will provide multi-media communications through websites, social media, and radio/local TV to promote education and outreach of the storm water program and related issues. TMDLs (dissolved nitrogen and total phosphorus) will be focus of communications once per TMDL over permit term.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Keep regional websites current with stormwater information. www.hamilton-city.org www.gwconstortium.org , www.miamiconservancy.org , www.savelocalwaters.org	Ongoing	City of Hamilton Engineering Dept.
Social media stats from the regional collaborative (Save Local Waters) Facebook and twitter pages.	Annually	City of Hamilton Engineering Dept.
Number of local advertisements (radio, television and billboard) produced through partner organizations.	Annually	City of Hamilton Engineering Dept.

Rationale for BMP: Multi-Media communication provides diverse mechanisms to provide current information to the public and can reach a broad audience.
How BMP addresses TMDL: Topics for social media posts and website content will be based on the known TMDL pollutants of concern for the City (dissolved nitrogen and total phosphorus) once during the permit term, for each TMDL.

BMP Type: Public Education Meetings

Description of BMP: The Miami Conservancy District, through its partnership with the City, will provide a variety of opportunities to promote education and outreach of the storm water program and related issues through a series of public education meetings.

Measurable Goal	Implementation Schedule and Frequency	Responsible Party
Number of Great Miami River Watershed Network Meetings hosted by the Miami Conservancy District.	Four meetings to be held during the permit term.	City of Hamilton Engineering Dept.

Rationale for BMP: Public meetings offer an excellent opportunity for the public to become educated on impacts that storm water runoff has on local waterways.
How BMP addresses TMDL: Topics can be based on known TMDL pollutants of concern for the City-dissolved nitrogen and total phosphorus if appropriate.

MCM 1 Decision Process - Rationale Statement

The rationale statement shall include the following information, at a minimum:

i. How you will inform individuals and households about the steps they can take to reduce storm water pollution?

Refer to the tables above for a description of the BMPs that the City of Hamilton intends to implement to inform the public about storm water runoff pollution and ways to reduce pollution and improve water quality. For example, the multi-media outreach BMP will include several themes that are intended to target individuals and households regarding the connection between their personal habits and the health of local streams. It will help inform individuals and households about steps they can take to reduce storm water pollution.

ii. How you plan to inform individuals and groups on how to become involved in the storm water program (with activities such as local stream restoration activities).

Primarily through website updates and multi-media campaigns described above.

iii. Who are the target audiences for your education program who are likely to have significant storm water impacts (including commercial, industrial and institutional entities) and why those target audiences were selected?

The target audiences generally include the general public, property owners, and the development community. These audiences were selected because they represent a broad group that can implement practices to improve water quality throughout the community. An informed and knowledgeable community is crucial to the success of the storm water management program.

iv. What are the target pollutant sources your public education program is designed to address?

The City's program is designed to address a variety of storm water themes which cover many potential pollutant sources, especially residential sources of pollution. Special consideration will be given to the pollutant sources identified in Appendix A of the General Permit, specifically dissolved nitrogen and total phosphorous. Because the Mill Creek has approved TMDLs that emphasizes water quality impacts associated with dissolved nitrogen and total phosphorous, specific themes will be highlighted to educate the public about how they can impact local streams.

v. What is your outreach strategy, including the mechanisms (e.g., printed brochures, newspapers, media, workshops, etc.) you will use to reach your target audiences, and how many people do you expect to reach by your outreach strategy over the permit term?

See above tables for detailed strategies. The City intends to reach people primarily through multi-media outlets. The City anticipates these outreach strategies will reach well beyond 50 percent of the population within its service area during the permit term.

vi. Who (person or department) is responsible for overall management and implementation of your storm water public education and outreach program and, if different, who is responsible for each of the BMPs identified for this program.

Generally, the City of Hamilton is responsible for all BMPs for this program. Refer to the tables above for the responsible party for each BMP included in the program.

vii. How will you evaluate the success of this minimum measure, including how you selected the measurable goals for each of the BMPs?

The measurable goals were selected to be specific, measurable, achievable and realistic. The City of Hamilton intends to evaluate the effectiveness of the public education and outreach BMPs by tracking and documenting information as described in the tables above.

Minimum Control Measure 2: Public Involvement/Participation

Minimum Control Measure 2: Public Involvement/Participation

The City of Hamilton's MS4 permit requires the public involvement/participation efforts to accomplish the following:

Comply with State and local public notice requirements and satisfy this minimum control measure's minimum performance standards when implementing a public involvement/ participation program.

Performance Standards: *Include five public involvement activities over the permit term. If the MS4 discharges to a watershed with a U.S. EPA approved TMDL, at a minimum target each TMDL pollutant identified at least once during the permit term.*

The following tables outline the best management practices (BMPs) selected by the City of Hamilton to accomplish MCM 2. The City has the legal authority to implement identified BMPs.

BMP Type: Stream Clean-Ups		
<p>Description of BMP: The City and the Groundwater Consortium, along with many other regional partners, organize the Great Miami River Cleanup on an annual basis. The City to encourage City residents and businesses to participate, focusing on the river/stream reaches in Hamilton and Butler County.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible Party
Number of volunteers participating in the Great Miami River Cleanup.	Annually	City of Hamilton Engineering Dept.
<p>Rationale for BMP: Engaging the public in river/stream clean-up activities provides an opportunity for hands-on involvement and participation while also improving water quality through cleaning the rivers and streams.</p> <p>How BMP addresses TMDL: Through information sharing at the event, participants will be introduced to what they can personally do to improve water quality in their neighborhoods, and potentially introduced to TMDLs. This could impact TMDLs, depending on information sharing.</p>		

BMP Type: TMDL- Focused Activities		
<p>Description of BMP: The City to host a public involvement/participation activity focused on each TMDL during the permit term. One activity focused on dissolved nitrogen and one activity focused on total phosphorus is required.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible Party
Host one activity focused on dissolved nitrogen during the permit term. Report the number of volunteers participating.	One time during permit term.	City of Hamilton Engineering Dept.
Host one activity focused on total phosphorus during the permit term. Report the number of volunteers participating.	One time during permit term.	City of Hamilton Engineering Depart.

Rationale for BMP: Engaging the public in TMDL-focused activities provides an opportunity for hands-on involvement and participation while also improving water quality.

How BMP addresses TMDL: Through information sharing at the event, participants will be introduced to TMDLs and what they can personally do to improve water quality in their neighborhoods. This BMP will impact TMDLs in the watershed.

MCM 2 Decision Process - Rationale Statement

The rationale statement shall include the following information, at a minimum:

i. Have you involved the public in the development and submittal of your NOI and SWMP description?

The City of Hamilton has involved the public in developing its SWMP by posting a draft of the SWMP on the City's website for public review and comment.

ii. What is your plan to actively involve the public in the development and implementation of your program?

The public will be invited to participate in the annual stream cleanup(s) and the TMDL-focused activities in the City and in Butler County.

iii. Who are the target audiences for your public involvement program, including a description of the types of ethnic and economic groups engaged? You are encouraged to actively involve all potentially affected stakeholder groups, including commercial and industrial businesses, trade associations, environmental groups, homeowners' associations, and educational organizations, among others.

The events will be city-wide or regional events, that are well advertised and well broadcasted throughout the community. The events are not focused on a specific target audience, but rather intended to reach the entire community. For regional events, the City will work with their regional partners to identify site locations within the City and within Butler County to encourage City residents and businesses to participate.

iv. What are the types of public involvement activities included in your program?

The selected activities are specified in the tables above.

v. Who (person or department) is responsible for the overall management and implementation of your storm water public involvement/participation program and, if different, who is responsible for each of the BMPs identified for this program.

The City of Hamilton is responsible for all BMPs for this program, but the Great Miami River Cleanup is a regional event hosted by a group of agencies throughout the watershed.

vi. How you will evaluate the success of this minimum measure, including how you selected the measurable goals for each of the BMPs.

The measurable goals were selected to be specific, measurable, achievable and realistic. The City of Hamilton intends to evaluate the effectiveness of the public involvement/participation BMPs by tracking and documenting information as described in the tables above.

Minimum Control Measure 3: Illicit Discharge Detection and Elimination

Minimum Control Measure 3: Illicit Discharge Detection and Elimination

The City of Hamilton's MS4 permit requires the illicit discharge detection and elimination efforts to include the following:

Shall develop, implement and enforce a program to detect and eliminate illicit discharges.

Shall develop a comprehensive storm water system map, showing the location of all outfalls and the names and location of all waters of the United States that receive discharges from those outfalls; MS4 system (catch basins, pipes, ditches, detention/retention ponds, post-construction water quality BMPs), and private water quality BMPs. All future and pre-existing public and private post-construction BMPs shall be identified by type of practice.

Shall submit to EPA a list of HSTs including addresses; a map of HSTs including type and size of conduits/ditches that receive discharges.

Shall effectively prohibit through ordinance, or other regulatory mechanism, illicit discharges including enforcement procedures.

Shall develop and implement a program to detect and eliminate non-storm water discharges, including illegal dumping and HSTs. At a minimum this includes:

- i. Working with applicable agencies and/or departments to identify HSTs that could be connected to central sewers and require connection for any HST not operating properly.***
- ii. Working with the health department to develop a proactive O&M program.***
- iii. Actively investigating contamination sources during dry weather screening.***
- iv. Evaluating the planned/possible installation of sewers in areas with high densities of HSTs.***

Shall inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

Shall address the following categories of non-storm water discharges or flows if identified as significant contributors of pollutants: water line flushing, landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, flows from riparian habitats and wetlands, dechlorinated/ dibrominated/ desalinated swimming pool discharges, street wash water, and discharges or flows from non-planned fire-fighting activities.

Performance Standards: Initial dry weather screening of all storm water outfalls over the permit term. Establish priorities and goals for long-term system wide surveillance of MS4, and evaluate annually. System map shall be updated as needed. Notify OEPA of detected illicit sanitary cross connections and leaking / broken sanitary sewer lines actively contributing to the MS4 within 24 hours of discovery. If the MS4 discharges to a watershed with a listed U.S. EPA approved TMDL (phosphorus, nitrogen, ammonia, Ecoli, bacteria, dissolved oxygen, organic enrichment) MS4 must have annual employee training which includes illicit discharge detection and elimination topic(s).

The following tables outline the best management practices (BMPs) selected by the City of Hamilton to accomplish MCM 3. The City has the legal authority to implement all identified BMPs.

BMP: Illicit Discharge Detection and Elimination Regulations and Planning		
<p>Description of BMP: The City will update their illicit discharge detection and elimination regulation. This regulation will be the mechanism for enforcing the elimination of any illicit discharges that are detected within the MS4 service area.</p>		
Measurable Goal	Schedule and Frequency	Responsible
Update ordinance as needed, including regulations prohibiting illicit discharges with its enforcement mechanisms.	Ongoing	City of Hamilton Engineering Dept. and Law Director
Update the City's IDDE plan, as needed.	Ongoing	City of Hamilton Engineering Dept.
Notify OEPA of detected illicit sanitary cross connections and leaking / broken sanitary sewer lines actively contributing sewage to the MS4.	Within 24 hours of discovery.	City of Hamilton Engineering Dept.
<p>Rationale for BMP: Illicit discharge detection and elimination regulations and an IDDE plan provides the City with appropriate mechanisms to enforce the prohibition of illicit discharges, as well as a plan of how to detect and eliminate them.</p> <p>How BMP addresses TMDL: Prohibiting illicit discharges will improve water quality and having an IDDE plan will ensure that staff know how to properly respond to potential illicit discharges. OEPA notification of illicit connections and leaking sewer lines fulfills reporting requirement. This task is not anticipated to have a direct link to the TMDL at this time.</p>		

BMP: Update System Mapping		
<p>Description of BMP: The City of Hamilton maintains updated storm sewer system GIS mapping. The data is updated as needed. The current MS4 system map is included in the Appendix.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Maintain and update map of MS4 system.	Updated as needed.	City of Hamilton Engineering Dept. and City of Hamilton GIS Dept.
Confirm pre-existing public and private post-construction BMPs are shown in GIS,	3/31/2026	City of Hamilton Engineering Dept. and

and identify by type of practice, by end of permit term.		City of Hamilton GIS Dept.
<p>Rationale for BMP: Updating the storm system mapping to include additional assets will create a more accurate representation of the entire storm system network.</p> <p>How BMP addresses TMDL: Having a well mapped system can be useful in identifying potential sources of pollution, however this may not have a direct link to achieving the goals of the TMDL.</p>		

BMP: Dry-Weather Screening of Storm Water Outfalls		
<p>Description of BMP: The City of Hamilton will conduct dry-weather visual screening of all known storm water outfalls within the MS4 service area at least once during the permit term. The City utilizes standard operating procedures for dry-weather screening of outfalls.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Number of outfalls screened for illicit discharges during dry weather.	All outfalls will be visually screened at least once during the permit term.	City of Hamilton Engineering Dept.
Number of issues identified and addressed.	Annually	City of Hamilton Engineering Dept.
<p>Rationale for BMP: Screening storm water outfalls will assist the City in identifying illicit discharges throughout the storm sewer system.</p> <p>How BMP addresses TMDL: Outfall screening provides proactive prevention of potential illicit discharges which could contribute pollutants of concern to the City's receiving streams.</p>		

BMP: HSTS Mapping and Coordination		
<p>Description of BMP: The City will complete the following measurable goals that are focused on preventing potential illicit discharges from HSTS systems within the City limits.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Continue to prohibit new HSTS connections to the storm sewer system.	Ongoing	City of Hamilton Health Dept. City of Hamilton Engineering Dept. and City Law Director
Maintain a map and addresses of known HSTSs	Ongoing	City of Hamilton Health Dept. and City of Hamilton Engineering Dept.
Continue to coordinate with City Health Department to resolve HSTS issues and	Ongoing	City of Hamilton Health Dept. and City of

look for opportunities to connect to the sanitary sewers.		Hamilton Engineering Dept.
Document number of HSTSs eliminated through connection to sanitary sewers.	Ongoing	City of Hamilton Health Dept. and City of Hamilton Engineering Dept.
<p>Rationale for BMP: Focusing on HSTSs is important to control a known potential source of illicit discharges as septic systems continue to age and become prone to failure. How BMP addresses TMDL: HSTS management provides proactive prevention of potential illicit discharges which could contribute pollutants of concern to the City's receiving streams.</p>		

BMP: Annual Employee Training		
<p>Description of BMP: The City to provide annual employee training which includes illicit discharge detection and elimination topics.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Provide one employee training per year focused on illicit discharge detection and elimination topics. Report number of employees who receive training each year.	Annually	City of Hamilton Engineering Dept.
<p>Rationale for BMP: Training City staff is very important in identifying and eliminating illicit connections. How BMP addresses TMDL: Training will reduce pollution to receiving streams from illicit connections.</p>		

MCM 3 Decision Process - Rationale Statement

The rationale statement shall include the following information, at a minimum:

- i. How you will develop a comprehensive storm sewer map. Describe the sources of information you will use for the maps, and how you plan to verify the outfall locations with field surveys. If already completed, describe how you developed this map. Also, describe how your map will be regularly updated.***

The City updates its GIS information in house. The City will continue to update the existing MS4 system GIS information as needed.

- ii. The mechanism (ordinance or other regulatory mechanism) you will use to effectively prohibit illicit discharges into the MS4 and why you chose that mechanism. If you need to develop this mechanism, describe your plan and a schedule to do so. If your ordinance or regulatory mechanism is already developed, include a copy of the relevant sections with your program.***

The City will update their illicit discharge detection and elimination ordinance as needed with enforcement mechanisms. A weblink to the current ordinance is referenced in the Appendix.

iii. Your program to detect and address illicit discharges to your system, including discharges from illegal dumping and spills. Your program shall include dry weather field screening for non-storm water flows and Ohio EPA recommends field tests of selected chemical parameters as indicators of discharge sources. You shall describe the mechanisms and strategies you will implement to ensure outfalls which have previously been dry-weather screened will not have future illicit connections. Your program shall also address on-site sewage disposal systems (including failing on-lot HSTs and off-lot discharging HSTs) that flow into your storm drainage system. Your description shall address the following, at a minimum:

- 1. Procedures for locating priority areas which include areas with higher likelihood of illicit connections (e.g., areas with older sanitary sewer lines, for example) or ambient sampling to locate impacted reaches.**

Priority areas will be located by reviewing City GIS mapping, results of dry weather screening, HSTS mapping, and drainage complaints. The Hamilton City Health Department provides oversight on these systems.

- 2. Procedures for tracing the source of an illicit discharge, including the specific techniques you will use to detect the location of the source.**

City crews have the ability to provide general field investigations and CCTV inspection to help locate the source of illicit discharges.

- 3. Procedures for removing the source of the illicit discharge.**

Illicit discharges will be resolved on a case-by-case basis given the unique nature of each situation.

- 4. Procedures for program evaluation and assessment.**

Mapping and annual reporting will track the number of issues identified and resolved. City staff will use this information to assess program success.

iv. Your program to ensure through appropriate enforcement procedures and actions that your illicit discharge ordinance (or other regulatory mechanism) is implemented to the extent allowable under State law.

The City's ordinance includes penalties for non-compliance – this is the enforcement mechanism.

v. How you plan to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste. Include in your description how this plan will coordinate with your public education minimum measure and your pollution prevention/good housekeeping minimum measure programs.

MCM 3 performance standards dictate annual employee training which includes illicit discharge detection and elimination topics if the MS4 discharges to a watershed with listed U.S. EPA approved TMDLs. In Hamilton's case, the listed TMDLs are dissolved nitrogen and

total phosphorus. The hazards of illicit discharges will be a topic that is covered under MCM 1- Public Education and Outreach.

- vi. Who is responsible for overall management and implementation of your storm water illicit discharge detection and elimination program and, if different, who is responsible for each of the BMPs identified for this program.***

Refer to the tables above for the responsible party for each BMP included in the program. Generally, the City of Hamilton is responsible for all BMPs for this program.

- vii. How you will evaluate the success of this minimum measure, including how you selected the measurable goals for each of the BMPs.***

The measurable goals were selected to be specific, measurable, achievable and realistic. The City of Hamilton intends to evaluate the effectiveness of the illicit discharge detection and elimination BMPs by tracking and documenting information as described in the tables above.

Minimum Control Measure 4: Construction Site Storm Water Runoff Control

Minimum Control Measure 4: Construction Site Storm Water Runoff Control

The City of Hamilton’s MS4 permit requires the construction site storm water runoff control efforts to include the following:

Shall develop, implement, and enforce a program to reduce pollutants in any storm water runoff to your small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre including projects less than one acre that are part of a larger common plan of development. At a minimum this includes:

- i. Ordinance or other regulatory mechanism to require erosion and sediment controls, and non-sediment pollutant controls, as well as sanctions to ensure compliance, to the extent allowable under State or local law.***
- ii. Requirements for construction site operators to implement appropriate erosion and sediment controls.***
- iii. Requirements for construction site operators to control waste at the construction site that may cause potential water quality impacts.***
- iv. Procedures for storm water pollution prevention plan review which incorporates consideration of potential water quality impacts.***
- v. Procedures for the receipt and consideration of information submitted by the public.***
- vi. Procedures for site inspection and enforcement of control measures.***

Performance Standards: Program shall include an ordinance review/update to be equivalent with the technical requirements in the OEPA General Storm Water Permit for Construction Activities. A pre-construction SWP3 review and approval for all land disturbances greater than or equal to one acre, or less than one acre if part of a larger common plan of development. Applicable sites shall be initially inspected. Checklists are required for SWP3 reviews and site inspections. Frequency of follow up shall be monthly with documentation, unless otherwise determined. If the MS4 discharges to a watershed with a listed U.S. EPA approved TMDL (TSS sediment, siltation, phosphorus, nitrogen, ammonia) MS4 program must include construction site inspections every 14 days rather than monthly if there are known issues at a site until issues resolved.

The following tables outline the best management practices (BMPs) selected by the City of Hamilton to accomplish MCM 4. The City has the legal authority to implement all identified BMPs.

BMP: Maintain Ordinance and Regulations		
Description of BMP: The City will update ordinances regarding sediment and erosion control, and site development.		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Update existing ordinances to comply with	Before the end of the	City of Hamilton

NPDES MS4 permit.	permit term.	Engineering Dept. And City Council
<p>Rationale for BMP: Updating and maintaining the ordinances will provide the City with the means to regulate and enforce storm water management on construction sites.</p> <p>How BMP addresses TMDL: This BMP will target construction site runoff and sediment pollution which are currently not included in the TMDLs as pollutants of concern. This BMP will not directly impact the target TMDLs for the City.</p>		

BMP: Construction Site Runoff Control		
Description of BMP: The City will ensure that site plan and SWP3 reviews are completed, and on-site inspections are completed. Inspections to identify issues and then follow-up with contractors to correct as needed.		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Document complaint process currently utilized.	4/1/2023	City of Hamilton Engineering Dept.
Follow-up on complaints received for construction site runoff control issues. Track the number of complaints received and complaints resolved annually.	Annually	City of Hamilton Engineering Dept.
Develop construction site plan review checklist, including MS4 requirements for SWP3 reviews and post-construction BMPs.	4/1/2023	City of Hamilton Engineering Dept.
Perform construction site plan and SWP3 reviews for each new development and re-development with more than 1 acre of disturbance. Track the number of site plans and SWP3s reviewed annually.	Annually	City of Hamilton Engineering Dept.
Develop construction site inspection checklist, including MS4 requirements for post-construction BMPs.	4/1/2023	City of Hamilton Engineering Dept.
Conduct inspection of construction sites monthly, at a minimum. Site inspections to be every 14 days if known issues, until issues resolved. Track the number of inspections completed for each active construction site annually.	Monthly	City of Hamilton Engineering Dept.
Track the number of construction site runoff control issues reported and enforcement violations issued and resolved in the Site Inspection Database.	Annually	City of Hamilton Engineering Dept.

Rationale for BMP: Implementation of construction site runoff site plan and SWP3 reviews, inspection activities are critical for a successful construction site runoff control program to manage potential sediment pollution.

How BMP addresses TMDL: This BMP will target construction site runoff and sediment pollution. This BMP will not directly impact the target TMDLs for the City.

MCM 4 Decision Process - Rationale Statement

The rationale statement shall include the following information, at a minimum:

- i. The mechanism (ordinance or other regulatory mechanism) you will use to require erosion and sediment controls, and non-sediment pollutant controls, at construction sites and why you chose that mechanism. If you need to develop this mechanism, describe your plan and a schedule to do so. If your ordinance or regulatory mechanism is already developed, include a copy of the relevant sections with your SWMP.***

The City has existing ordinances in place, which will be updated to maintain full compliance with the MS4 NPDES General Permit requirements. A weblink to the current ordinance is referenced in the Appendix.

- ii. Your requirements for construction site operators to implement appropriate erosion and sediment control BMPs and control waste at construction sites that may cause adverse impacts to water quality. Such waste includes, but is not limited to, discarded building materials, concrete truck washouts, chemicals, litter, and sanitary waste.***

The City's requirements for construction site operators will follow the technical requirements of the OEPA General Storm water Permit for Construction Activities at a minimum, and will refer to the guidance provided in the Ohio Rainwater and Land Development Manual.

- iii. Your procedures for pre-construction storm water pollution prevention plan (SWP3) review which incorporate consideration of potential water quality impacts.***

All construction site plans go through the City's plan review process. As part of this process, the City will review the SWP3 for each site. As stated above, the City intends to develop a site plan review checklist to standardize the reviews.

- iv. Your procedures for receipt and consideration of information submitted by the public. Consider coordinating this requirement with your public education program.***

The public may call and report an issue at any time. When complaints are received, the City conducts an inspection, addresses the issue as needed, and documents the complaint. As stated above, the City intends to document the current complaint process utilized.

- v. Your procedures for site inspection and enforcement of control measures, including how you will prioritize sites for inspection.***

Construction site inspections are performed by the City of Hamilton staff. Inspections on an active construction site are conducted at least monthly. Problematic sites or sites that have received complaints will be inspected every 14 days until the issue is resolved. As stated

above, the City intends to develop a construction site inspection review checklist to standardize the inspections.

- vi. *Your program to ensure compliance with your erosion and sediment control regulatory mechanism, including the sanctions and enforcement mechanisms you will use to ensure compliance. Include a written enforcement escalation plan describing your procedures for when you will use certain sanctions. Possible sanctions include non-monetary penalties (such as a stop work order), fines, bonding requirements, and/or permit denials for non-compliance.***

The City's updated ordinances will include enforcement measures and penalties.

- vii. *Who is responsible for overall management and implementation of your construction site storm water control program and, if different, who is responsible for each of the BMPs identified for this program.***

Refer to the tables above for the responsible party for each BMP included in the program. Generally, the City of Hamilton is responsible for all BMPs for this program.

- viii. *Describe how you will evaluate the success of this minimum measure, including how you selected the measurable goals for each of the BMPs.***

The measurable goals were selected to be specific, measurable, achievable and realistic. The City of Hamilton intends to evaluate the effectiveness of construction site runoff control BMPs by tracking and documenting information as described in the tables above.

Minimum Control Measure 5: Post-Construction Storm Water Management in New and Redevelopment

Minimum Control Measure 5: Post-Construction Storm Water Management in New and Redevelopment

The City of Hamilton’s MS4 permit requires the Post-Construction Storm Water Management in New and Redevelopment efforts to include the following:

Shall develop, implement, and enforce a program to address storm water runoff 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.

Shall develop and implement strategies which include a combination of structural and/or non-structural post-construction runoff controls.

Shall use an ordinance, or other regulatory mechanism, to address post-construction runoff from new and redevelopment projects to the extent allowable under State and local law.

Shall ensure adequate long-term operation and maintenance of post-construction runoff controls.

Performance Standards: Program shall include an ordinance review/update to be equivalent with the technical requirements in the OEPA General Storm Water Permit for Construction Activities. Post-construction program shall include a pre-construction SWP3 for all land disturbances greater than or equal to one acre, or less than one acre if part of a larger common plan of development. Sites shall be inspected to ensure controls are installed per requirements. Checklists are required for SWPPP reviews and site inspections. Program shall ensure long term O&M plans are developed and agreements are in place, and the private and public post-construction runoff controls are being maintained per plans and agreements. If the MS4 discharges to a watershed with a listed U.S. EPA approved TMDL (TSS sediment, siltation, phosphorus, nitrogen, ammonia) MS4 program must include an educational training to contractors, SWP3 designers, and/or employees during the permit term. In addition, your program shall include one of the following during the permit term and within the TMDL watershed: a retrofit of one existing storm water practice to provide water quality, at least 300 feet of stream/channel restoration to reduce erosion, update your ordinance or regulatory mechanism to require green BMPs from Table 4b of the construction permit, or install BMP(s) from Table 4b of the construction permit to treat at least one acre of existing impervious area developed prior to 2003.

The following tables outline the best management practices (BMPs) selected by the City of Hamilton to accomplish MCM 5. The City has the legal authority to implement all identified BMPs.

BMP: Maintain Ordinance and Regulations		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Description of BMP: The City will update and maintain ordinances requiring post-construction storm water management for sites larger than 1 acre to include enforcement mechanisms.		
Update existing ordinances to comply with NPDES MS4 Permit.	Ongoing	City of Hamilton Engineering Dept. and City Council

Rationale for BMP: Updating and maintaining the ordinances will provide the City with the means to regulate and enforce post-construction storm water management
How BMP addresses TMDL: This BMP will require post-construction storm water controls be implemented on all development sites larger than 1 acre, and these BMPs will reduce pollutants of concern addressed in the TMDL.

BMP: Post-Construction Runoff Control Implementation

Description of BMP: The City will focus on implementation and ongoing management and documentation of the post-construction BMPs during plan review and post-inspections.

Measurable Goal	Implementation Schedule and Frequency	Responsible
Conduct one post-construction BMP training on Table 4b of the OEPA General Storm Water Permit for Construction Activities for contractors, SWP3 designers, and/or employees during the permit term.	3/31/2026	City of Hamilton Engineering Dept.
Develop post-construction plan review checklist items for City staff. Checklist items to be incorporated into Site Plan Review Checklist (developed as part of MCM 4).	4/1/2023	City of Hamilton Engineering Dept.
Ensure post-construction controls are designed per requirements during site plan and SWP3 reviews for each new development and re-development.	Annually	City of Hamilton Engineering Dept.
Inspect to ensure post-construction controls are installed per requirements.	Annually	City of Hamilton Engineering Dept.
Develop post-construction inspection checklist items for City staff.	4/1/2023	City of Hamilton Engineering Dept.
Perform inspections of private and public post-construction BMPs to ensure controls are being maintained per plans and agreements. At a minimum, one site inspection during the permit term is required. Track number of inspections completed annually. Track the number of enforcement violations.	3/31/2026	City of Hamilton Engineering Dept.
Document and map the number of post-construction BMPs installed.	Annually	City of Hamilton Engineering Dept. and City of Hamilton GIS Dept.
Number of signed O&M plans and agreements between the post-construction	Annually	City of Hamilton Engineering Dept. and

BMP owner and City.		City of Hamilton Legal Dept.
Retrofit of one existing storm water practice to provide water quality during the permit term.	3/31/2026	City of Hamilton Engineering Dept.
<p>Rationale for BMP: Ongoing management and implementation of the post-construction program including O&M agreements and post-construction site inspections are important to long term successful program implementation. Also, construct one post-construction water quality improvement project during the permit term or update your ordinance to require green BMPs on construction sites.</p> <p>How BMP addresses TMDL: Post-construction BMPs help reduce pollutants of concern addressed in the TMDL.</p>		

MCM 5 Decision Process - Rationale Statement

The rationale statement shall include the following information, at a minimum:

- i. Your program to address storm water runoff from new development and redevelopment projects. Include in this description any specific priority areas for this program.*

The City of Hamilton requires by ordinance all new and redevelopment projects that disturb greater than or equal to one acre to implement post-construction storm water management controls to address both water quantity and water quality.

- ii. How your program will be specifically tailored for your local community, minimize potential water quality impacts, and attempt to maintain pre-development runoff conditions.*

The City follows the requirements in the OEPA General Permit for MS4s, the OEPA General Storm Water Permit for Construction Activities, and mimics the guidelines in the Ohio Rainwater and Land Development Manual.

- iii. Any non-structural post-construction runoff controls in your program.*

The City follows the requirements in the OEPA General Permit for MS4s, the OEPA General Storm Water Permit for Construction Activities, and mimics the guidelines in the Ohio Rainwater and Land Development Manual.

- iv. Any structural post-construction runoff controls in your program, including, as appropriate: green infrastructure storm water management techniques, storage practices such as wet ponds and extended-detention outlet structures; filtration practices such as grassed swales, bioretention cells, sand filters and filter strips; and infiltration practices such as infiltration basins and infiltration trenches.*

The City follows the requirements in the OEPA General Permit for MS4s, the OEPA General Storm Water Permit for Construction Activities, and mimics the guidelines in the Ohio Rainwater and Land Development Manual.

- v. ***The mechanisms (ordinance or other regulatory mechanisms) you will use to address post-construction runoff from new developments and redevelopments and why you chose the mechanism(s). If you need to develop a mechanism, describe your plan and a schedule to do so. If your ordinance or regulatory mechanism is already developed, include a copy of the relevant sections with your program.***

The City of Hamilton ordinances meet the requirements of the OEPA General Permit for MS4s and the OEPA General Storm Water Permit for Construction Activities.

- vi. ***How you will ensure the long-term operation and maintenance (O&M) of any implemented or installed post-construction runoff controls. Options to help ensure that future O&M responsibilities are clearly identified and enforceable include an agreement between you and another entity such as the post-development landowners or regional authorities.***

O&M responsibilities and requirements will be incorporated into a maintenance agreement which will remain in effect with the property owner in perpetuity. The City will also complete inspection of post-construction BMPs at least once per permit term and notify owner of any issues or concerns.

- vii. ***Who is responsible for overall management and implementation of your post-construction SWMP and, if different, who is responsible for each of the BMPs identified for this program.***

Refer to the tables above for the responsible party for each BMP included in the program. Generally, the City of Hamilton is responsible for all BMPs for this program.

- viii. ***How you will evaluate the success of this minimum measure, including how you selected the measurable goals for each of the BMPs.***

The measurable goals were selected to be specific, measurable, achievable and realistic. The City of Hamilton intends to evaluate the effectiveness of the post-construction BMPs by tracking and documenting information as described in the tables above.

Minimum Control Measure 6: Pollution Prevention/Good Housekeeping For Municipal Operations

Minimum Control Measure 6: Pollution Prevention/Good Housekeeping for Municipal Operations

The City of Hamilton’s MS4 permit requires the Pollution Prevention/Good Housekeeping For Municipal Operations efforts to include the following:

Shall develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

Using training materials available from OEPA or other organizations, program shall include employee training to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.

Shall include a list of industrial facilities owned and operated by the City. SWP3 plans shall be developed and implemented as required.

Performance Standards: Program to include an annual employee training. Operation and maintenance shall include appropriate documented procedures, controls, maintenance schedules, and record keeping. Salt piles shall be covered with no storm water run-on and subsequent runoff of salt. All tanks of brine or other liquid road treatments shall have secondary containment or bollard/barrier protection. Soil disturbance associated with ditch / MS4 maintenance shall have soil stabilization initiated as required. If the MS4 discharges to a watershed with a listed U.S. EPA approved TMDL (TSS sediment, siltation, phosphorus, nitrogen, ammonia, Ecoli, bacteria, metals, dissolved oxygen, organic enrichment) MS4 program shall include one of the following: a street sweeping program, a catch basin cleaning program, a leaf/yard waste collection program, or must conduct routine facility inspections at your facilities at least quarterly. The selected program must have proper debris management and disposal.

The following tables outline the best management practices (BMPs) selected by the City of Hamilton to accomplish MCM 6. The City has the legal authority to implement all identified BMPs.

BMP: Employee Training		
<p>Description of BMP: The City will utilize available storm water training materials to train City staff on storm water related issues, good housekeeping and pollution prevention, and a review of SWP3s for City municipal facilities.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible
<p>Number of employees who receive training per year focused on storm water and good housekeeping.</p>	<p>Annually</p>	<p>City of Hamilton Engineering Dept. and City of Hamilton Public Works Dept.</p>
<p>Rationale for BMP: Training City staff is a very important aspect of reducing pollution from municipal facilities. Using materials and training already available results in efficiencies and consistent messaging. How BMP addresses TMDL: Municipal good housekeeping will reduce pollution to receiving streams. Depending on the topic, this BMP may have a direct impact on TMDLs.</p>		

BMP: Municipal Facility SWP3s		
<p>Description of BMP: The City will maintain and update SWP3s for all required municipal facilities. A list of the City's facilities requiring SWP3s are included in the Appendix.</p>		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Maintain and update SWP3s or No Exposure Certifications as needed for applicable municipal facilities.	Once per permit term.	City of Hamilton Engineering Dept.
Inspections conducted of each facility.	Annually	City of Hamilton Engineering Dept.
Salt piles to be covered with no storm water run-on and subsequent runoff of salt.	4/1/2023	City of Hamilton Engineering Dept.
Tanks of brine or other liquid road treatments to have secondary containment or bollard/barrier protection.	4/1/2023	City of Hamilton Engineering Dept.
<p>Rationale for BMP: SWP3s where applicable provide a plan for management of pollution from municipal facilities. These will be updated as needed.</p> <p>How BMP addresses TMDL: While not directly linked to the TMDL, municipal good housekeeping will reduce pollution to receiving streams.</p>		

BMP: MS4 Operation and Maintenance Program		
<p>Description of BMP: The City will continue implementation of City's Operation and Maintenance Program for Municipal facilities as follows:</p> <ul style="list-style-type: none"> • Provide storm sewer and catch basin cleaning on an as needed/complaint basis with problem areas often cleaned monthly. • Monitor open drainage ways for blockages and debris. • Treat roads with liquid brine and road salt as needed for winter safety - high traffic areas are the priority and other roads are treated sparingly. • Apply pesticides, herbicides and fertilizers sparingly at rates specified by the manufacturer. • Sweep streets as needed and deliver collected material to the Rumpke landfill. • Collect leaves during the fall season and properly dispose. • Stabilize soil disturbance areas associated with ditch / MS4 maintenance needs. 		
Measurable Goal	Implementation Schedule and Frequency	Responsible
Linear feet of storm pipe cleaned.	Annually	City of Hamilton Public Works Dept.
Number of catch basins cleaned. At a minimum, catch basins to be cleaned once every five years.	Annually	City of Hamilton Public Works Dept.

Gallons of waste oil recycled.	Annually	City of Hamilton Public Works Dept.
Gallons of liquid brine and tons of salt applied to roads.	Annually	City of Hamilton Public Works Dept.
Tons of material collected by street sweepers and taken to landfill. Sweep curb streets minimum two times per year, and prioritized areas more frequently.	Annually	City of Hamilton Public Works Dept.
Cubic yards of leaves collected.	Annually	City of Hamilton Public Works Dept.
Pounds of herbicides, pesticides, and fertilizers applied. Minimize usage if possible.	Annually	City of Hamilton Public Works Dept.
Number of flood management projects assessed for water quality.	As needed.	City of Hamilton Engineering Dept.
Soil disturbance associated with ditch / MS4 maintenance needs soil stabilization initiated as required. Report linear feet of ditch maintained and stabilized, and time frames soil stabilization was initiated.	Annually, beginning no later than 4/1/2023.	City of Hamilton Public Works Dept.
<p>Rationale for BMP: Implementing the SWP3s and practicing good housekeeping is important for reducing pollution from municipal facilities.</p> <p>How BMP addresses TMDL: Reducing pollution as a result of operation and maintenance program implementation could reduce nutrient loads (dissolved nitrogen and total phosphorous) consistent with the Mill Creek TMDLs.</p>		

MCM 6 Decision Process - Rationale Statement

The rationale statement shall include the following information, at a minimum:

- i. Your operation and maintenance program to prevent or reduce pollutant runoff from your municipal operations. Your program shall specifically list the municipal operations that are impacted by this operation and maintenance program.***

See tables above for specific activities.

- ii. Any government employee training program you will use to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance. Describe any existing, available materials you plan to use. Describe how this training program will be coordinated with the outreach programs developed for the public information minimum measure and the illicit discharge minimum measure.***

Refer to the tables above for information related to the employee training program. This program will be coordinated with MCM 3- Illicit Discharge Detection and Elimination and MCM 1- Public Education and Outreach programs to the extent that the information provided in all programs will be consistent and will be cross-referenced as appropriate.

iii. Your program description shall specifically address the following areas:

- 1. Maintenance activities, maintenance schedules, and long-term inspection procedures for controls to reduce floatables and other pollutants to your MS4.**

The City conducts routine street sweeping and catch basin cleaning. The City also has an annual leaf collection program. Major creeks and drainage ditches are monitored for blockages after severe weather. The collected materials are disposed of as appropriate.

- 2. Controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer stations, fleet or maintenance shops with outdoor storage areas, and salt/sand handling and storage locations and snow disposal areas you operate. A description of the materials used for roadway and municipal parking lot winterization (use of salt, sand, bottom ash, etc. or combination thereof), associated application rates, and the rationale for the selected application rates shall be included. Also identify controls or practices to be used for reducing or eliminating discharges of pollutants resulting from roadway and municipal parking lot winterization activities.**

The City has ongoing programs in place for street sweeping, catch basin cleaning, and leaf collection. Road winterization materials will be tracked as indicated in the above tables. The City will follow the SWP3 for each municipal facility to reduce pollution from those sites.

- 3. Procedures for the proper management and disposal of waste removed from your MS4 and your municipal operations, including dredge spoil, accumulated sediments, floatables, street sweepings/ catch basin cleanings and other debris.**

Debris collected will be managed and disposed of in a proper manner.

- 4. Procedures to ensure that new flood management projects are assessed for impacts on water quality and existing projects are assessed for incorporation of additional water quality protection devices or practices.**

The City considers impacts on water quality when completing new flood management projects.

iv. Who is responsible for overall management and implementation of your pollution prevention/good housekeeping program and, if different, who is responsible for each of the BMPs identified for this program.

Refer to the tables above for the responsible party for each BMP included in the program. Generally, the City of Hamilton is responsible for all BMPs for this program.

v. How you will evaluate the success of this minimum measure, including how you selected the measurable goals for each of the BMPs.

The measurable goals were selected to be specific, measurable, achievable and realistic. The City of Hamilton intends to evaluate the effectiveness of the good housekeeping BMPs by tracking and documenting information as described in the tables above.

Appendices

MS4 System Map

Post-Construction BMP Map

HSTS Map and List of Properties

Ordinance Weblinks








List of Municipal Facilities Requiring SWP3s

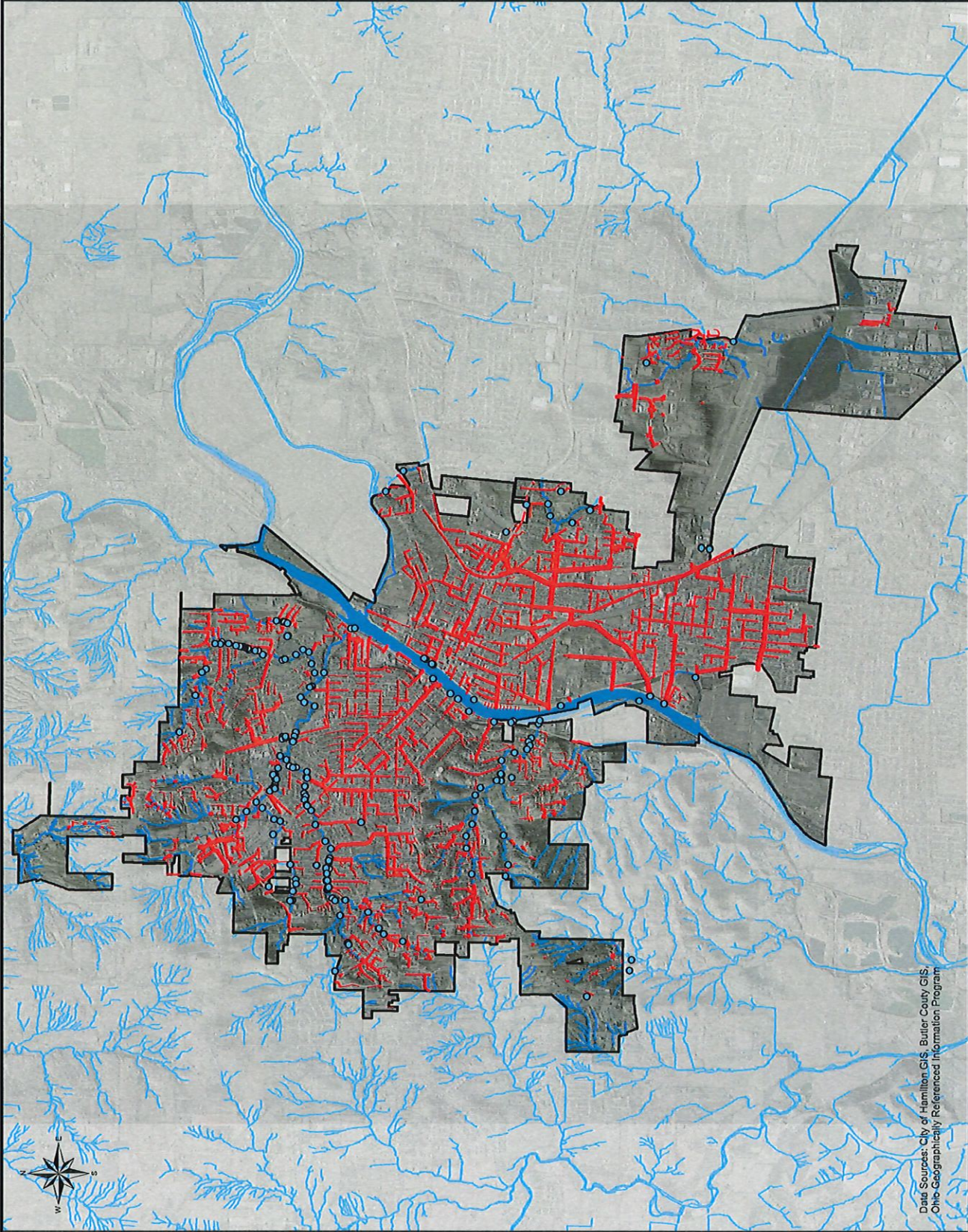
MS4 System Map

STORM WATER MASTER PLAN

STORM PIPE SIZES

Legend







-  City Boundary
-  Storm Discharge Point
- Storm Gravity Main**
- Diameter**
-  0 - 13 (1,499)
-  14 - 21 (1,975)
-  22 - 36 (1,163)
-  37 - 72 (376)
-  73 - 144 (77)

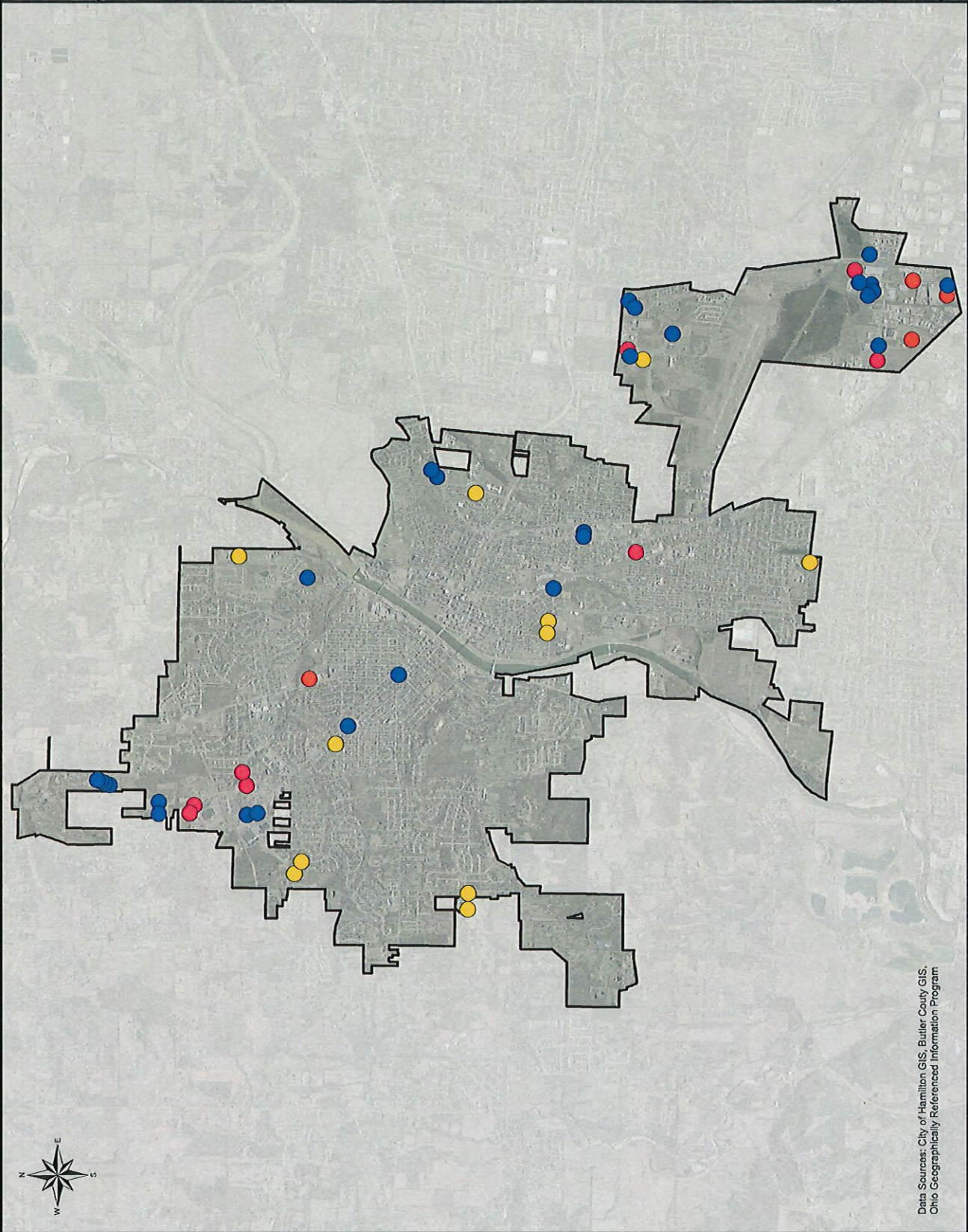


Data Sources: City of Hamilton GIS, Butler County GIS, Ohio Geographically Referenced Information Program

Post-Construction BMP Map

Legend

-  City Boundary
-  All Parcels
- Post Construction BMP Sites**
- Date**
-  2007 - 2010 (11)
-  2011 - 2014 (4)
-  2016 - 2018 (6)
-  2019 - 2021 (27)






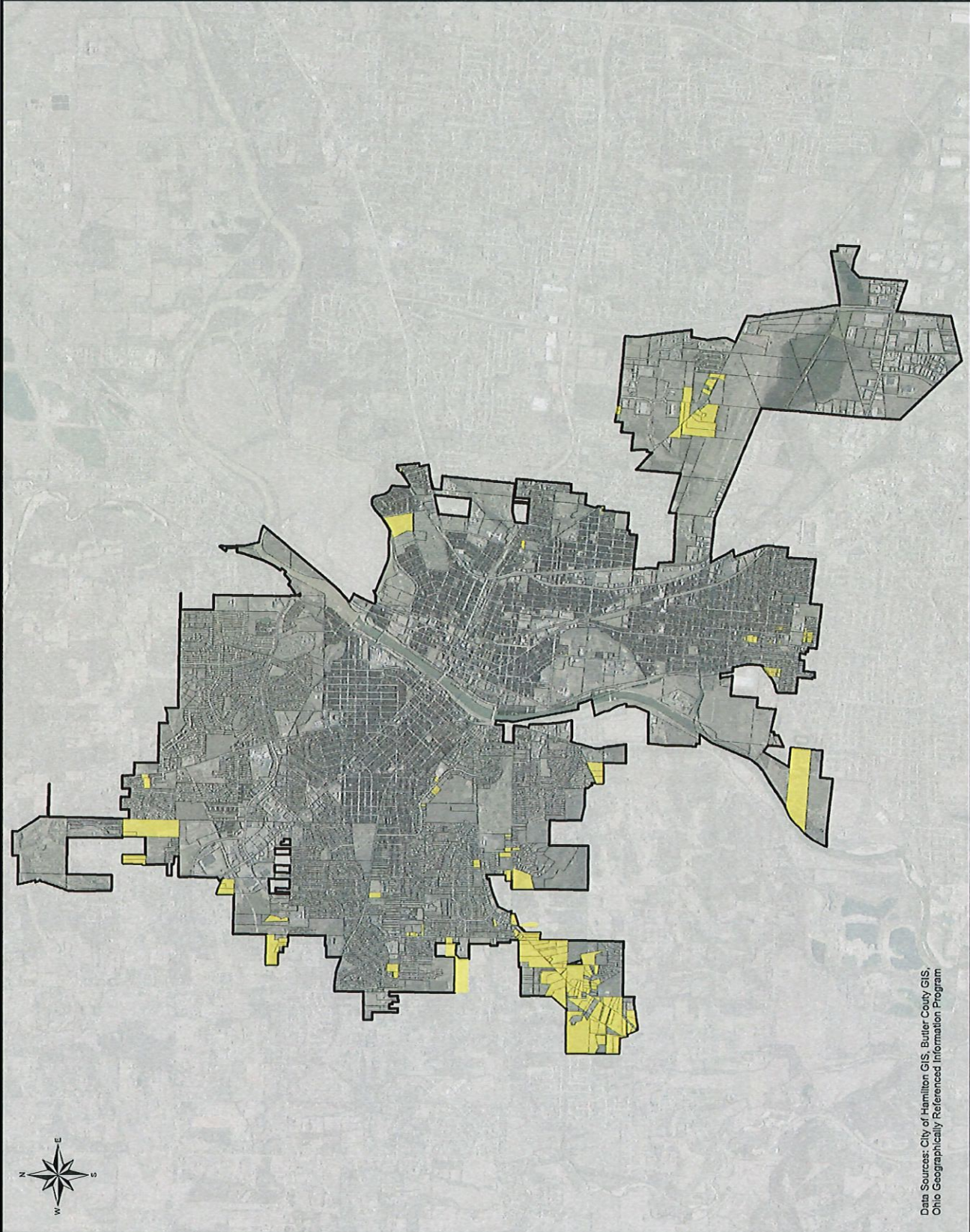
HSTS Map and List of Properties

STORM WATER MASTER PLAN

**HOUSEHOLD SEWAGE
TREATMENT SYSTEMS
IN THE CITY**

Legend

-  City Boundary
-  Parcels with HSTS
-  All Parcels



Data Sources: City of Hamilton GIS, Butler County GIS,
Ohio Geographically Referenced Information Program

List of Household Sewage Treatment Systems (HSTs) in the City of Hamilton



835 Beissinger Road	700 Hill Avenue	1494 New London Road	3190 Tylersville Road
881 Beissinger Road	815 Hogan Avenue	1495 New London Road	3191 Tylersville Road
967 Beissinger Road	835 Hogan Avenue	1497 New London Road	1800 Warvel Road
1015 Beissinger Road	1604 Howell Avenue	1499 New London Road	333 Wasserman Road
3924 Benninghofen Ave.	35 Joe Nuxhall Way	1521 New London Road	450 Wasserman Road
741 Bishop Avenue	1 Kirk Avenue	1551 New London Road	480 Wasserman Road
761 Bishop Avenue	1570 Millville Avenue	1556 New London Road	546 Wasserman Road
321 Carver Place	1620 Millville Avenue	1562 New London Road	552 Wasserman Road
888 Columbia Road	640 New London Road	1570 New London Road	570 Wasserman Road
947 Columbia Road	642 New London Road	1589 New London Road	3850 Weigel Lane
950 Columbia Road	814 New London Road	1609 New London Road	3851 Weigel Lane
978 Columbia Road	1002 New London Road	1619 New London Road	3860 Weigel Lane
1001 Columbia Road	1025 New London Road	1620 New London Road	3861 Weigel Lane
1951 Eaton Road	1049 New London Road	1621 New London Road	3870 Weigel Lane
425 Fernway Drive	1051 New London Road	1629 New London Road	3871 Weigel Lane
732 Foster Avenue	1056 New London Road	1649 New London Road	3880 Weigel Lane
739 Foster Avenue	1064 New London Road	1105 Old Oxford Road	3881 Weigel Lane
740 Foster Avenue	1065 New London Road	1155 Old Oxford Road	3886 Weigel Lane
748 Foster Avenue	1074 New London Road	1185 Old Oxford Road	3890 Weigel Lane
756 Foster Avenue	1081 New London Road	3504 Pleasant Avenue	3891 Weigel Lane
7565 Gilmore Road	1090 New London Road	3522 Pleasant Avenue	70 Wrenwood Drive
7575 Gilmore Road	1114 New London Road	3534 Pleasant Avenue	
7570 Gilmore Road	1125 New London Road	3546 Pleasant Avenue	
2503 Grand Boulevard	1126 New London Road	3840 Pleasant Avenue	
2505 Grand Boulevard	1150 New London Road	3980 Pleasant Avenue	
2517 Grand Boulevard	1170 New London Road	3840 River Road	
1602 Greenwood Avenue	1180 New London Road	3844 River Road	
2951 Hamilton Mason	1181 New London Road	355 S. Washington Blvd.	
2961 Hamilton Mason	1200 New London Road	501 S. Washington Blvd.	
20 Heathwood Lane	1224 New London Road	507 S. Washington Blvd.	
68 Heathwood Lane	1230 New London Road	515 S. Washington Blvd.	
81 Heathwood Lane	1245 New London Road	525 S. Washington Blvd.	
90 Heathwood Lane	1248 New London Road	530 S. Washington Blvd.	
110 Heathwood Lane	1270 New London Road	535 S. Washington Blvd.	
111 Heathwood Lane	1287 New London Road	540 S. Washington Blvd.	
130 Heathwood Lane	1300 New London Road	73 Shermand Oaks Lane	
140 Heathwood Lane	1327 New London Road	1345 Smith Road	
160 Heathwood Lane	1339 New London Road	1365 Smith Road	
630 Hill Avenue	1340 New London Road	1389 Smith Road	
631 Hill Avenue	1342 New London Road	1320 Stahlheber Road	
638 Hill Avenue	1354 New London Road	1450 Stahlheber Road	
641 Hill Avenue	1365 New London Road	1458 Stahlheber Road	
645 Hill Avenue	1366 New London Road	1464 Stahlheber Road	
648 Hill Avenue	1376 New London Road	940 St. Clair Avenue	
651 Hill Avenue	1383 New London Road	2921 Tylersville Road	
660 Hill Avenue	1390 New London Road	2941 Tylersville Road	
661 Hill Avenue	1391 New London Road	2951 Tylersville Road	
670 Hill Avenue	1415 New London Road	2979 Tylersville Road	
671 Hill Avenue	1427 New London Road	2981 Tylersville Road	
680 Hill Avenue	1441 New London Road	3056 Tylersville Road	
681 Hill Avenue	1483 New London Road	3128 Tylersville Road	
690 Hill Avenue	1490 New London Road	3150 Tylersville Road	
691 Hill Avenue	1493 New London Road	3170 Tylersville Road	

Ordinance Weblinks

Ordinance 929: Storm Water Management System

<http://whdrane.conwaygreene.com/NXT/gateway.dll?f=templates&fn=default.htm&vid=whdrane:OHHamilton>

Ordinance 931: Sewer Regulations

<http://whdrane.conwaygreene.com/NXT/gateway.dll?f=templates&fn=default.htm&vid=whdrane:OHHamilton>

Ordinance 940: Wellhead Protection Program

<http://whdrane.conwaygreene.com/NXT/gateway.dll?f=templates&fn=default.htm&vid=whdrane:OHHamilton>

List of Municipal Facilities Requiring SWP3s

**City of Hamilton Municipal Garage
2210 S. Erie Highway Hamilton, Ohio 45011
SWP3 is complete.**

**City of Hamilton Water Reclamation Facility
2451 River Road Hamilton, Ohio 45015
No SWP3 required, no-exposure exemption forms complete.**



Mike DeWine, Governor
Jon Husted, Lt. Governor
Laurie A. Stevenson, Director

Mar 15, 2019

City of Hamilton Dept. of Infrastructure
Steve Eberts
345 High Street, 4th Floor
Hamilton, OH 45011

Re: No Exposure Certification for Exclusion from Industrial NPDES Storm Water Permitting

Dear Storm Water Discharger,

Ohio EPA has received your No Exposure Certification for conditional exemption from National Pollutant Discharge Elimination System (NPDES) storm water permitting. The certification is non-transferrable. If a new operator assumes control of your facility, the new operator must immediately complete and submit a new No Exposure Certification to obtain the exemption. The letter acknowledges receipt of a No Exposure Certification for the following facility:

Facility Name:	Hamilton Water Reclamation Facility
Facility Location:	2451 River Road
City:	HAMILTON
County:	Butler
Township:	
Ohio EPA Facility Permit Number:	1GRN00896*AG
Permit Effective Date:	Mar 15, 2019
Permit Expiration Date:	Mar 15, 2024

U.S. EPA's December 8, 1999 NPDES Storm Water Phase II rulemaking included a requirement that a written certification of no exposure be submitted to the appropriate NPDES permitting authority at least once every five years. Please make note to submit a complete industrial No Exposure Certification to Ohio EPA within five years from your last certification date. If you plan to change facility operations such that it is no longer eligible for the no exposure exemption, you must submit the appropriate permit application at least 180 days prior to commencing discharge of potentially contaminated storm water.

To view your electronic submissions and permits please Logon in to the Ohio EPA's eBusiness Center at <http://ebiz.epa.ohio.gov>.

If you need assistance or have questions please call (614) 644-2001 and ask for Industrial No Exposure Certification support or visit our website at <http://www.epa.ohio.gov>.

Sincerely,

Laurie A. Stevenson
Director