

---

**City of Pataskala**  
**Renewal of NPDES Phase II Permit 4GQ10007\*AG**  
**Program Years 2009-2013**  
**Storm Water Management Program**

*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.”*

\_\_\_\_\_  
*Signature, Title*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Printed Name*

***Introduction***

The City of Pataskala is submitting this updated storm water management program in accordance with the established regulations outlined in 40CFR Part 122.32, Ohio Law, and Ohio EPA’s February 2009 release of The Final Renewal General Permit for Small MS4’s. This program outlines the updated goals and objectives in implementing and enforcing a storm water management program that will reduce the amount of pollutants discharged into nearby water systems, will protect water quality and will meet the requirements established by the Clean Water Act. This SWMP will address the six minimum control measures necessary to meet the requirements for the Renewal NPDES Phase II Permit over the next five years (including 2009 through 2013).

***Legal Authority***

The City of Pataskala adopted Ordinance 2003-3477 establishing authority to control the quality of storm water discharged into its waterways. The requirements are set forth in the City of Pataskala Subdivision Regulations, Chapter 1119.

***Permit Coverage Area***

---

This SWMP will cover all areas within the corporation limits, an area of 30.1 square miles according to recent County Auditor data. The City of Pataskala has grown from a population of 10,249 according to 2000 census numbers, to an estimated 15,000+ in 2008. The City includes over 221 lane miles of roadway and one main waterway that splits into two separate branches, the South Fork of the Licking River and the Muddy Fork Creek which are part of the larger Muskingum River watershed. The extreme western edge of the City contains small tributaries that flow into Blacklick Creek, part of the Walnut Creek watershed.

The City is highly diverse in terms of land use, containing urbanized uses and housing subdivisions, and a significant number of large lot home sites, operating farms and vacant open land.

### ***Evaluation, Record Keeping and Reporting***

The City of Pataskala, in accordance with the Renewal NPDES Phase II requirements, will annually conduct an evaluation of program compliance, the appropriateness of identified BMP's, and progress toward achieving identified measurable goals and satisfying performance standards.

The City shall retain copies of all reports required by this permit, a copy of the NPDES permit itself and records of all data used to complete the NOI application for the permit, for a period of at least three (3) years from the date of the report or application, or for the term of this permit, whichever is longer. This period may be extended by Ohio EPA at any time. These records shall be kept in the office of the Director of Planning or any other location that is accessible to Ohio EPA. All records related to this permit are public records, and as such will be made available to the public upon receipt of written request, according to City Public Records Policy.

Annual reports are submitted on April 1 following the end of each year of the permit cycle. The Ohio EPA provided format will be used, unless specific approval of a different format is approved by Ohio EPA. These reports will include:

1. An updated Table of Organization for program development and implementation, including a primary point of contact.
2. The status of compliance with the permit conditions and performance standards, an assessment of the appropriateness of the MCM's established and the achievement of the goals described, Progress toward achieving the statutory goal of reducing the discharge of pollutants to the MEP and the measurable goals for each of the minimum control measures (MCM). The report shall also include a summary of the specific annual reporting requirements identified for each minimum control measure described in Part III B.1.d, Part III.B.2.d., and Part III. B.3.k., Part III.B.4.d. Part III.B.5.g. and Part III.B.6.f of the renewal permit.
3. Results of information collected and analyzed, if any, during the reporting period, including monitoring data used to assess the success of the program at reducing the

- 
- discharge of pollutants to the MEP
4. A summary of the storm water activities the City plans to undertake during the next reporting cycle, including an implementation schedule.
  5. Proposed changes to the City's storm water management plan (SWMP) including changes to any BMP's or any identified measurable goals that apply to the program elements;
  6. Identification and summary of any variances granted under the City's storm water program regulations and requirements.
  7. All annual reports will contain the certification language provided in Parts V.G.4 of the renewal permit.
  8. All annual reports will be signed by either the City Administrator, the Mayor of the City, or their designated authorized representative. Authorization of a representative must be only for a person having responsibility for the overall operation of the regulated facility or activity, and must be submitted to the Director of the Ohio EPA.

***Responsible Parties (see attached table of organization)***

The City Planning Director has overall responsibility for facilitation, development, implantation and compliance with the City's Storm Water Management Program outlined for this Notice of Intent. Significant support will come from coordination with the Licking County Health Department with regard to mapping and monitoring of home sewage treatment systems (HSTS). They have the data on permits for such systems throughout the County, including Pataskala, and they have the trained personnel, legal authorization and specialized equipment and facilities for monitoring the performance of these systems.

The City's consulting engineering staff provides immeasurable assistance, advice and expertise as they conduct the detailed plan review of development proposals, inspections of construction projects, and advice with regard to technical considerations in the revisions of codes dealing with these technical matters.

The City's Public Services Director is the Director of the Streets Department and will have direct supervisory responsibility over the day to day operations of that department, which will have primary responsibility for carrying out maintenance of City owned storm water facilities. The Public Services Director and the Planning Director collaborate closely on matters of development including development of maintenance schedules and training modules for this staff.

The City Zoning Inspector serves as an additional set of eyes in the community, and will be responsible for reporting and issuing violations on any non-permitted land disturbance activities, as well as any violations that occur at construction projects in-between engineer site inspections; these might include the failure of an erosion control system after a heavy rain event.

The Planning Director will maintain all records and files, and produce the annual reports. Citizen concerns that pertain to storm water management and pollution prevention will be

---

investigated and addressed under the oversight of the Planning Director.

### ***General Information***

In spite of significant slowdowns in construction in 2007 and 2008, the City of Pataskala continues to work diligently to update its information relative to storm water runoff as it applies to new construction. Construction documents submitted to the City Engineer must specifically address drainage design in addition to erosion control measures, and post construction site runoff.

The Zoning Code now includes a requirement for the dedication of permanent public and private open space for both Planned Development Districts (includes Residential, Commercial and Industrial) as well as residentially zoned properties. These requirements will help to control the amount of land permanently covered by impervious surface, which will allow storm water to naturally percolate through to ground water resources rather than sheet flowing across large areas to natural drainage ways. The Planning and Zoning Commission is currently reviewing these open space requirements to determine if greater amounts of required open space are advisable in some situations.

The City Subdivision Regulations now include language requiring an easement to private storm water structures, so that if the private owner fails to maintain the structure properly, the City may legally access and take steps to correct a failing structure.

### ***Storm Water Management Program***

This plan will outline the six minimum control measures required for the SWMP, and will outline individually the MCMs for the City in the implementation of these measures to significantly decrease the pollutants discharged to the South Fork of the Licking River, Muddy Fork Creek and also tributaries of Blacklick Creek. The water pollutants the City is attempting to address are salt from roadways, discarded trash, oil and grease from roadways, sediment and any other items that may occur as part of construction and “housekeeping” processes. This renewal permit will also address likely sources of bacterial and excess nutrient pollution. The six minimum control measures are as follows:

- 1) Public Education and Outreach
- 2) Public Participation/Involvement
- 3) Illicit Discharge Detection and Elimination
- 4) Construction Site Runoff Control
- 5) Post-Construction Runoff Control
- 6) Pollution Prevention/Good Housekeeping

Additional compliance requirements for the renewal permit include:

- 
- a) A Table of Organization
  - b) OEPA's minimum performance standards for each MCM
  - c) Expanded mapping of MS4 facilities
  - d) Complete location and mapping of home sewage treatment systems (HSTS)
  - e) Review and update local ordinances to be consistent with the General Permit
  - f) Expanded inspections of construction sites- at least monthly
  - g) Long-term operation and maintenance plans
  - h) Development of a plan for vehicle maintenance facilities, composting facilities, impoundment lots, bus terminals and waste transfer stations
  - i) Use of a standardized annual report form (first due date: 4/1/2010)

Each of the six minimum control measures and compliance requirements is addressed separately below:

***1) Public Education and Outreach***

The City of Pataskala will be implementing a mix of BMPs to address the pollutants described above. This control measure will involve targeting homeowners, both rural and suburban, school-agers, and commercial and industrial property and business owners. Only through public involvement and awareness, as to the impacts these individuals have on the community and water ways, can this program be successful.

The City of Pataskala, being located in Licking County, is not currently known to have any significant problems with pollutants contained in storm water runoff. Even though the current conditions do not indicate a problem, the City believes that public outreach will help counteract increased impacts on the quality of the environment within our corporation limits as growth and development continue.

Resources available to the City to apply toward this effort include the City's revised website (2008) and the City's publication of a quarterly newsletter, which is distributed both in print and via email list-serve and also posted on the website. The City also has a public access page with Time Warner which can be updated frequently with brief print messages. The City also provides literature stands in the Municipal Building where storm water management information can be displayed and picked up by the public.

There are methods of direct distribution of materials that will be employed for this MCM. All materials generated are always distributed to our community leaders, members of Council and the Planning and Zoning Commission. These packets are also distributed to the media each week. The Pataskala branch of Central Ohio Technical College conducts a number of classes in one wing of the municipal building. This provides a higher level of exposure for storm water materials to young adults.

Another readily available method of distribution of material is inclusion with utility billings. The City has two main water and sewer services within its boundary. The first is the Pataskala Utility Department, which serves approximately 7,000 of the City's residents. The

---

distribution of this material will not be a problem since the Utility Department is part of the City's governmental structure. The second water and sewer service is the Southwest Licking Community Water and Sewer Conservation District. Its area covers part of the City's old Lima Township area, as well as Etna Township and Harrison Township. It serves approximately 1,500-2,000 of the City's residents. The City has a good working relationship with the SWLCWSCD and they have agreed to provide messages consistent with this control measure through their utility billing.

The City has access to advertising through a variety of print media sources. The local papers include the Pataskala Standard, the Pataskala Post, This Week and the Newark Advocate.

In addition to these sources the City is the location of an annual event held in the month of August, called simply the Pataskala Street Fair. The City hosts a booth on the midway where informational brochures and literature are distributed. There is also the potential to create interactive displays promoting the themes of preventing storm water prevention. This is an informal venue that attracts a large number of its residents who do not normally attend community meetings or public hearings. The Pataskala Street Fair will continue to be included as a key component of the public outreach program.

The City is served by two public school districts within its boundary, Licking Heights Local Schools and Southwest Licking Local Schools. The Licking County Soil and Water Conservation District is available to help in the implementation of this measure with classroom presentations regarding storm water runoff and proper pollution prevention and other programs they currently offer.

The Pataskala Public Library has always been a willing partner allowing the display of public documents. This will continue to be a key place to both provide information and for distribution of public outreach materials. It has access to the internet for website information in addition to providing hard copies of material relative to this control measure. The City's Homeowner's/Civic Associations within the residential areas provide another venue to speak at meetings and make direct distribution of educational materials.

Strategies and measurable goals that will be implemented for this control measure during the next 5 years include:

Time Frame    Public Education and Outreach Activity

- <sup>2009</sup> Year 1
- a. Continue participation in the Blacklick Watershed Action Plan Committee. Distribute and post the watershed brochure created by the Committee. of the Advertise and publish the final plan on the website. Present the findings of the plan to City Council at a Workshop, and to the Brooksedg Homeowners' Association, the Taylor Glen Homeowners Association and invite residents of Summit Ridge Estates.
  - b. Continue to place updated stormwater messages on the Time Warner Website at least 6 times throughout the year.
  - c. Provide materials for distribution and display at the annual Street Fair

---

d. A summer themed message will be prepared for the City's quarterly newsletter which will also be distributed and posted on the City's web site.

- <sup>2010</sup> Year 2
- a. Hold 2 workshops targeting residents of the old villages and the east side of the city, including Barrington Ridge, Hazelwood, and Oak Meadows homeowners and include business owners in those areas.
  - b. Continue to place updated stormwater messages on the Time Warner Website at least 6 times throughout the year.
  - c. Provide materials for distribution and display at the annual Street Fair
  - d. A fall themed message will be prepared for the City's quarterly newsletter which will also be distributed and posted on the City's web site. Review and add appropriate links to outside resources

- <sup>2011</sup> Year 3
- a. Create and deploy a stormwater protection message in at least 1 cycle of utility billing for each utility company.
  - b. Continue to place updated stormwater messages on the Time Warner Website at least 6 times throughout the year.
  - c. Provide materials for distribution and display at the annual Street Fair
  - d. . A winter themed message will be prepared for the City's quarterly newsletter which will also be distributed and posted on the City's web site. Review and add links to new outside resources.

- <sup>2012</sup> Year 4
- a. Work with Licking County Soil and Water Conservation Service to implement an educational presentation with the local school districts. Post materials/or link to County website/ for general distribution. Advertise to homeschoolers that materials are available.
  - b. Continue to place updated stormwater messages on the Time Warner Website at least 6 times throughout the year.
  - c. Provide materials for distribution and display at the annual Street Fair
  - d. A spring themed message will be prepared for the City's quarterly newsletter which will also be distributed and posted on the City's web site. Review and update links to any new outside resources.

- <sup>2013</sup> Year 5
- a. Revise and update the informational brochure with a fresh message for homeowners. Distribute the brochure at the library, the municipal building, on the website and directly to Boards, Commissions and the media.
  - b. Continue to place updated stormwater messages on the Time Warner Website at least 6 times throughout the year.
  - c. Provide materials for distribution and display at the annual Street Fair
  - d. An autumn themed message will be prepared for the City's quarterly newsletter which will also be distributed and posted on the City's web site.

---

2) **Public Participation/Involvement**

The City of Pataskala continues its commitment to increasing public involvement and participation as one of the key components of its SWMP. The more public involvement that can occur in the early stages, the less chance the City takes in dealing with potential future legal challenges.

In this cycle, there appear to be unique opportunities to engage the public in watershed improvement projects as a result of the Blacklick Creek Watershed Action Plan. Families working together will be the target population for this volunteer effort.

Public meetings will provide visibility and build enthusiasm for implementation of this program. The City will hold a meeting/workshop to discuss the program and receive public comment relative to its goals and strategies. Then in Year 5, a series of meetings will be held to discuss the anticipated next 5-Year Cycle.

The City will continue and build upon special community clean up events for roadside ditches that drain into the South Fork of the Licking River, Muddy Fork Creek, and Blacklick Creek tributaries. The City will also investigate creating more opportunities for recycling of hazardous and other materials not routinely collected by Waste Management, such as tires, electronics and batteries. This recycling program should help further protect and minimize the impacts of pollutants on the water system.

The City will work to create a committee of volunteers clean up of the water ways. The City will look into acquiring additional signage that can be placed at strategic locations along the existing water ways to help individuals identify with the water way systems leading to informal monitoring of potentially polluting conditions.

The City will continue to work with community groups like scouts and church groups relative to this minimum control measure as well as the public outreach and education measure. In this cycle, the City will look to actively engage college age young adults and businesses as sources of additional volunteers. By engaging in cleanup activities they will experience firsthand and learn from the detrimental impacts of litter and illicit discharges into streams.

Time Frame    Public Participation/Involvement

- <sup>2009</sup> Year 1
- a. At the meeting for Brooksedge residents held under MCM 1 review opportunity for a watershed restoration project (for Dysart Run) as a result of the Blacklick Creek Action Plan. Possible resources may include a “319 grant” with MORPC. Explore with group potential ways for residents to participation in components of this project- for example, tree planting or site clean ups;
  - b. Post a public notice of compliance with this permit and make the SWMP available for public review and comment. Retain any comments.
  - c. Create an “Adopt a Street” program and an ODOT “Adopt a Highway”

---

Program (we have a lot of ditches and stream crossings to clean)

- <sup>2010</sup> Year 2
- a. Implement the activity identified in Year 1 for Brooksedge volunteer participation in Dysart Run watershed restoration project. Target audience will be families in Brooksedge.
  - b. Continue and evolve annual community spring clean up events. Expand annual spring community clean up event by 1 new activity each year. Explore holding special recycling drop offs (hazardous waste, batteries, electronics etc.) and necessary equipment. The target audience includes community groups and households throughout City.
- <sup>2011</sup> Year 3
- a. Develop and implement stream clean up events that include reporting of condition of outfalls by volunteer groups. The goal is to hold one event during summer at least once per year hereafter. The target audience is college students and other young adults for participation.
  - b. Place stream markers at 2 additional strategic locations along highways.
  - c. Complete effort to identify most tributary names.
- <sup>2012</sup> Year 4
- a. Continue to expand annual spring community clean up event by 1 new activity. For 2012 try to increase participation by 10% (from a current average of about 200 volunteers in 2009 to 220 in 2012. The target audience includes local employers and businesses for increased participation.
  - b. Continue stream cleanup program.
- <sup>2013</sup> Year 5
- a. Continue to implement and expand upon the strategies as outlined above.
  - b. Hold 3 public meetings at different venues to explore possible activities for the next 5 year permit cycle. Probably hold in the fall.

3) **Illicit Discharge Detection and Elimination**

This control measure will involve City staff, consulting engineers, the Licking County Health Department and to a limited extent, local citizen participation.

The City of Pataskala has many neighborhood storm sewers that could be susceptible to illegal dumping or unintentional contamination issues, such as car washing, pet waste and household chemical spills. The City will work to locate pollutant problems through citizen complaints, visual screening and visual assessment in dry weather conditions.

Although the newer development within the City is served by public water and sewer systems, many of the older homes are on larger lots in more rural type areas with home sewer treatment systems. These systems are regulated and approved by the Licking County Health

---

Department. The Health Department will be a key resource in identifying the locations of properly permitted HSTS, whether they outfall to the MS4, and their ongoing monitoring results. As part of this plan, the City will work closely with the County Health Department to locate any possible HSTS that due to their age may have not been properly permitted in the past. The City and Health Department will coordinate actions to ensure that all systems are being monitored on a systematic basis and follow-up steps are taken to ensure illicit discharges to the MS4 are not occurring due to failed septic systems.

The City has access to the County's Geographic Information System (GIS), and will utilize this base information in the creation of a comprehensive map to show existing catch basins, pipes, culverts and other storm water structures as well as the HSTS mentioned above.

Under the previous permit the City, with the assistance of its consulting engineers, began a database inventory of known storm water structures. The City also completed a study of 451 outfalls of 4 inches in size or greater. This study mapped the structures and noted dry weather flows, conducting a quality screen for those that exhibited characteristics indicative of potential pollution. Of these 33 were found to be probably polluted in some way. Gaps in this information from these two efforts will be identified. During this permit period, a strategy will be developed to complete the inventory and mapping, as well as a strategy to systematically identify the illicit connections and ultimately eliminate the illicit connections and eliminate sources of pollution that are identified.

The City under the previous permit was very modestly staffed and has since undergone staff reductions, which will pose a problem when it comes to utilizing individual's to perform the tasks necessary in detection and clean up, as existing workloads are quite heavy. Additionally, the City does not currently have an income tax, therefore funding to bring in outside assistance will be very difficult. The City will be developing goals in accordance with this limited budget that will be able to be implemented mostly by existing staff. The City is committed to the goals of the renewal permit, and will have to conduct this work in logical segments over the next 5 years.

The City updated its storm water ordinances under the last permit, especially with regard to construction and erosion controls. Existing ordinances require that sewer systems that are not tied to one of the public systems must obtain permits from the County Health Department prior to obtaining zoning permits in Pataskala. In the next 5 year permit period, the City will continue to review and modify or create ordinances relative to prohibiting non-storm water discharges into its storm water system. This will include the enforcement and penalties associated with violations of these policies. The City must continue to explore whether it can establish policing authority allowing staff to enter parts of private property in order to assuage any pollutant problems that may be occurring illegally along water ways. Many areas of the South Fork of the Licking River and the Muddy Fork Creek have existing single family residences built along their banks. These will be the most common areas where policing problems could occur.

Each annual report will include progress on each of the MCM activities described in the following, as well as data including: the number of outfalls dry-weather screened, the number of dry-weather flows identified, the number of illicit discharges identified, the number of illicit

---

discharges eliminated, schedules for continued elimination of illicit connections that have been identified but have yet to be eliminated and a summary of updates to the storm sewer system mapping.

Measurable Goals

Time Frame    Illicit Discharge Detection and Elimination

<sup>2009</sup> Year 1

- a. Create a plan that outlines the necessary steps needed to complete documentation and mapping of existing storm water structures according to the requirements of this renewal permit; inventory the existing data generated during the previous permit cycle and the gaps, determine the expertise required to complete the work, obtain cost estimates, and generate a proposal for phasing the work such that it will be completed by the end of 2013. Introduce that proposal to City Council for funding.
- b. Resume work with the County Health Department to create a procedure for the inventory, mapping and monitoring of all home sewage treatment systems (HSTS) that discharge into ditches and other waters governed by this MS4.
- c. Begin the creation of a database to document illicit discharges through citizen complaints;
- d. Adopt a brochure targeted to public employees of the hazards associated with illegal discharges and improper disposal of waste. Present the issue and the Renewal permit in at least one meeting of each department.
- e. Work with Law Director to create ordinances relative to policing authority for illicit discharge on private property.

<sup>2010</sup> Year 2

- a. Implement the 1<sup>st</sup> phase of plan to complete documentation and mapping existing storm water structures in addition to areas targeted as having recent illicit discharges; Goal will be to map at least 1/3 of the structures needed to complete the mapping process.
- b. Adopt the ordinances determined necessary further prohibiting illicit discharges and creating the policing procedures for illicit discharges that results from the studies of Year 1; Continue to distribute brochure outlining Illicit Discharge;
- c. Implement the 1<sup>st</sup> phase of plan to complete documentation and mapping of existing HSTS with the Health Department. Goal is to map at least 1/3 of the suspected undocumented systems and obtain a baseline monitoring of any systems that were unregulated in the past.
- d. Work with the Health Department and City Utilities Department to identify failing HSTS and other illicit discharges, verify their sources and identifying opportunities to connect them to existing sanitary sewers or

---

otherwise remedy as needed. Explore costs and feasibilities.

e. Adopt a brochure targeted to public employees of the hazards associated with illegal discharges and improper disposal of waste. Present the issue and the Renewal permit in at least one meeting of each department.

<sup>2011</sup> Year 3

a. Continue to update the mapping and documenting of existing storm water structures and target areas- goal to map another 1/3 of the system. Disconnection of areas found to have illicit illegal discharge;

b. Continue to update mapping of another 1/3 of suspected HSTS and monitoring of performance.

c. Create funding plan and conceptual plan to eliminate failing HSTS that are found during years 2,3 and 4. This will be accomplished through one of three available methods: those that can be feasibly connected to central sewers will be planned for; those that can be upgraded or have installed soil absorption systems, and failing those two options, the owners shall be notified of the requirement to pursue coverage under an appropriate Ohio EPA General NPDES permit.

d. Adopt a brochure targeted to the general public, especially those not on central systems, of the hazards associated with illegal discharges and improper disposal of waste. Present the issue and the Renewal permit in at least one public meeting.

<sup>2012</sup> Year 4

a. Complete final 3<sup>rd</sup> of update of the existing storm water structures map and inventory; Disconnection of areas found to have illicit illegal discharge;

b. Continue to update mapping of final 1/3 of suspected HSTS and monitoring of performance.

c. Pursue funding options and implementation of plan to eliminate failing HSTS by one of the methods described (under Year 3, c)

d. Follow up on progress of HSTS owners that have elected to improve their systems or pursuing a General Permit under NPDES.

d. Adopt a brochure targeted to businesses of the hazards associated with illegal discharges and improper disposal of waste. Present the issue and the Renewal permit at a Chamber of Commerce meeting and when conducting business retention interviews.

<sup>2013</sup> Year 5

a. Review the mapping project of the Storm Sewer System. Develop and implement a system for systematic updates as new structures are built and added to the system.

b. Review the mapping of HSTS owners. Develop and implement a

---

system for systematic updates as new systems are approved by the Health Department.

c. Develop and implement a systematic schedule to conduct ongoing field monitoring for new illicit discharges across the City.

4) **Construction Site Runoff Control**

The City of Pataskala has a consulting City Engineer, which reviews construction storm water and grading plans prior to the onset of construction. The City Engineer verifies the adequacy of construction site runoff control as part of the site plan review process. The City Engineer's responsibility includes performing on-site inspections during all phases of construction any development affecting more than 1 acre of land disturbance; these are to occur at a minimum- at construction onset and at least monthly thereafter.

In 2006, the City adopted regulations within its Codified Ordinances requiring storm water management plans that establishes criteria to design the plan such that soil erosion and sedimentation will be controlled. The current ordinance adopts standards of the City of Columbus Storm Water Plan Manual by reference. This ordinance established penalties for violators who do not comply with approved plans, including stop work orders, holds on occupancy permits and civil and criminal penalties.

Furthermore, this ordinance applies to not only building construction activities, but also to other land disturbance activities of one acre or more, such as filling and pond construction, which are very common in Pataskala. This ordinance also applies to construction activity that disturbs less than one acre if it is part of a larger common plan of development or sale that would disturb one acre or more in total.

Each annual report for this MCM will include and document the following: the number of applicable sites in the City of Pataskala, the number of pre-construction storm water pollution prevention plan reviews performed, the number and frequency of site inspections, the number of violation letters issued, the number of enforcement actions taken and the number of complaints received and number followed up on.

**Measurable Goals**

**Time Frame**    **Construction Site Runoff Control**

<sup>2009</sup> Year 1

- a. Continue to systematically monitor land filling activities and public complaints reporting problems or concerns;
- b. Review current soil erosion and sediment control standards in the Columbus Storm Water manual and procedures recommended by the City Engineer to determine if further amendments are necessary to be equivalent with the technical requirements of the NPDES renewal permit and OEPA regulations.
- c. Amend the Storm Water Management Plan chapter of the Subdivision

---

Regulations to be a Storm Water Management and Pollution Control Plan, which will include the following additional requirements and review:

- i. consideration of potential water quality impacts of the project
- ii. includes requirements for construction site operators to control waste such as, but not limited to discarded building materials, concrete truck washout, chemicals, liter and sanitary waste ant the construction site, that could have adverse impacts to water quality.
- iii. includes procedures for the receipt and consideration of information submitted by the public
- iv. includes procedures for site inspection and enforcement of additional control measures.
- vi. consider adding bonding requirements and fines specific to compliance with the Storm Water Management and Pollution Control plan as appropriate.

- <sup>2010</sup> Year 2 Continue documenting reports of problems or concerns; Continue to implement the requirements of the revised ordinance.
- <sup>2011</sup> Year 3 Continue documenting reports of problems or concerns; Continue to implement the requirements of the revised ordinance.
- <sup>2012</sup> Year 4 Continue documenting reports of problems or concerns; Continue to implement the requirements of the revised ordinance.
- <sup>2013</sup> Year 5 Continue documenting reports of problems or concerns; Continue to implement the requirements of the revised ordinance.

5) **Post-Construction Runoff Control**

The City of Pataskala has a consulting City Engineer that through the plan review process identifies and deals with the containment of runoff on-site as part of the site plan review process according to OEPA requirements. As part of the City Engineer’s responsibility, on-site inspections during all phases of construction occur as part of any development or construction that disturbs one acre or more of land. The City Inspector works to ensure that the approved site plan is adhered to in order to prevent post-construction runoff. The City’s Director of Planning is responsible for general oversight of the development process and ensuring that long term operation and maintenance plans are enforced. This will be accomplished with the assistance of the Zoning Inspector and the staff of the Streets Department for reporting on annual inspections (or more often if need be) of the control structures or devices for operational integrity.

The City proposed in its Comprehensive Plan creating 100’ wide strips on both sides of the main branches of the South Fork of the Licking River and the Muddy Fork Creek within the corporation limits. This will help minimize the amount of impervious surface located close to water ways, as well as helping to protect the natural habitat. This buffer zone will include some

---

areas of the floodplain. During this renewal permit period the City will further explore adopting required riparian buffer zones in the Zoning Ordinance to help protect these riparian corridors.

The City has minimal open space requirements relative to new development for land that is zoned Planned Development District or residentially zoned. These open space areas can often include tree protection zones, which will help further minimize the impact of post-construction runoff through the preservation of natural habitats. The City is currently exploring increasing the open space requirements which can also reduce the impact of post-construction runoff.

The City Engineer already reviews and recommends the use of either detention or retention ponds as appropriate with any new development to help control the volume and rate at which water outfalls into the existing storm sewer system and water ways to comply with the water quality standards of the renewal NPDES permit. The City will update the Storm Water Management Chapter of the Subdivision Regulations to specifically address the management of post-construction runoff, which will be equivalent to the technical requirements of the OEPA NPDES General Storm Water Permit of Construction Activities applicable to the City at this time. The City hopes to adopt and educate developers and the general public on OEPA approved best management practices (BMPs) as alternative methods of controlling post-construction runoff. As such, the City's regulations will be tailored as much as possible to maintain pre-development runoff conditions.

Accepted BMP's will be kept in a data base that includes the contact information on the primary private operator of the site. The Director of Planning will have responsibility for tracking achievement of goals of each BMP allowed to be used and approved by OEPA, as well as initiating violation or enforcement actions if the primary operator fails to maintain the BMP.

Annual reporting on this MCM will include: the number of applicable sites in Pataskala requiring post-construction controls, the number of pre-construction storm water pollution prevention plan reviews performed, the number of inspections performed to ensure as built per requirements, and the number of long-term operation and maintenance (O&M) plans developed an agreements in place..

### Measurable Goals

#### Time Frame    Post-Construction Runoff Control

- 1<sup>st</sup> Year
- a. Review and revise the Storm Water Management Chapter of the Subdivision Regulations to include specific language regulating post-construction runoff; i. to the technical equivalent of the OPEA renewal permit, ii. to include structural and non structural alternative controls and OEPA BMP's as methods for post construction runoff control, iii. To state the goal of attempting to maintain pre-development runoff conditions, iv. To include requirements for long term maintenance, violation procedures and penalties and authority for the City to take corrective action if necessary, providing for recovery of costs from the responsible party.

- 
- |                      |   |
|----------------------|---|
| 2 <sup>nd</sup> Year | <ul style="list-style-type: none"> <li>a. Complete work on creating an enforceable stream buffer zone ordinance as proposed in the Comprehensive Plan;</li> <li>b. Update existing Code requirements relative to minimization of impervious surfaces and strengthen review and enforcement of these minimums.</li> <li>c. Adopt an Ordinance relative to stream buffer zones; Document the amount of acreage preserved as stream buffer zones during actual development review; Continue to enforce the new ordinances created in Year1.</li> </ul> |
| 3 <sup>rd</sup> Year | Document the reduction of impervious surfaces associated with development and the amount of acreage preserved as stream buffer zones; Continue to enforce the new ordinances as outlined above.   |
| 4 <sup>th</sup> Year | Document the reduction of impervious surfaces associated with development; Document the amount of acreage preserved as stream buffer zones; Continue to enforce the new ordinances as outlined above.   |
| 5 <sup>th</sup> Year | Document the reduction of impervious surfaces associated with development; Document the amount of acreage preserved as buffer zones; Continue to enforce the new ordinances as outlined above.  |

**6) Pollution Prevention/Good Housekeeping**

The City of Pataskala will continue to prevent or reduce pollution from its municipal operations by several methods. One is the continuation of its vehicle maintenance and replacement procedures. This maintenance program includes a schedule of regular maintenance tasks and inspections of city vehicles to eliminate the occurrence of oil, grease and fluid leaks. Vehicle maintenance logs are tracked by the City Public Services Director.

The City Planning Director, as coordinator of the activities of the renewal permit monitors and records weather conditions and Street Department’s application of salt distributed along roadways during snow emergencies. As a matter of budget, the City attempts to minimize the amount of salt used, and in the 2008-2009 season also used a combination of grit on hilly roads as a more cost effective means for the deicing of roads. The City already stores salt stock piles in enclosed structures. The ability to identify and implement use of a non-polluting but highly effective de-icing agent would be significant success of this BMP.

The City acquired a training program for street and utility personnel, with the aim of presenting the program during staff meetings at least once each year. The program is titled “Storm Watch” and includes a professionally prepared DVD presentation with handouts and optional pre-and post test materials to assess information retention. Improvements in the post test results will confirm the success of this measure. This program will be updated as more current material becomes available. This program is developed specifically for public employees and the activities they typically engage in. The public, especially local businesses and the volunteer parks committee will be invited through a public announcement to attend this training

---

if they are interested. The streets department is the primary one that tends to be involved with land disturbances such as storm water system maintenance and building maintenance. The Utilities department oversees maintenance of their buildings themselves. The City Services Director under direction of the Council Lands and Buildings Committee oversees maintenance for the Police Department and the Municipal Building, including parking lots in the winter.

The City now has a volunteer Parks and Recreation Board that maintains the parks. The City will provide the Board with data and information on preferred alternatives for pest control and management and invite them to attend the streets department storm water training at their convenience. The Health Department provides limited mosquito spraying in the summer, based upon the results of mosquito trapping to determine when mosquito populations are growing to nuisance proportions or when diseases such as West Nile Virus are found to be in the area.

The City does not operate its own vehicle maintenance, but sends vehicles to a local mechanic for repairs and maintenance as needed. Vehicle washing is also done at a local commercial car wash. The ability to maintain this effort within 10% of scheduled dates will be significant success of this BMP. The City does store vehicles at the following addresses, none of which require an industrial Storm Water General Permit:

Mink Street Garage	5840 Mink Road
Creek Road Garage	9550 Creek road
Water Plant	7024 Hazelton Etna Road
Sewer Plant	Shawnee Loop South
The Police Department	430 S. Main
The Municipal Building	621 W. Broad

These were all covered under the prior permit. These facilities do not include maintenance, bus terminals, composting facilities, impoundment lots or waste transfer stations, and therefore do not require the development of SWPP3s.

The City conducts annual community clean-ups conducted by volunteers. These clean ups perform litter pickups and remove a great deal of debris, litter and floatables that are found in the ditch lines which are beside nearly all roads. The Streets Department performs clean outs of catch basins and storm sewers to rid them of debris and litter that tend to clog the structures as time permits. Due to low staffing, priorities tend to address structures that are found to be not performing as expected during rain events. During this permit cycle the City wishes to implement a proactive systematic schedule to clean structures. Success on this measure will be judged by the ability to have addressed all structures at least once in the permit period and to no longer receive reports of slow or clogged drains.

Any flood management projects proposed in the future (none are currently planned) to be carried out in or by the City will automatically be assessed for impacts on water quality during the review of the project by the City Engineer. They will conduct hydrologic analysis and review the scope of the project for the need for any additional water quality protection devices or practices and recommend those as appropriate.

Each year the annual report shall include the following: documentation and summary of employee training programs- the number of employees and others attended and a summary of

---

activities and procedures implemented for the City’s operation and maintenance program each year.

Measurable Goals

<u>Time Frame</u>	<u>Pollution Prevention/Good Housekeeping</u>
<sup>2009</sup> Year 1	a. Continue to track compliance with vehicle maintenance program; b. Continue to evaluating salt usage and look for low impact alternatives c. Continue to clean storm drains high in pollutants and debris on an “as discovered” basis. d. Conduct annual training for Streets Department
<sup>2010</sup> Year 2	Continue to implement the strategies outlined above. e. Develop a systematic storm drain cleaning and ditch cleaning process and schedule and begin implementation. Provide that schedule in the annual report.
<sup>2011</sup> Year 3	Continue to implement the strategies outlined above. e. Review City facility site layouts: look for opportunities to install BMP’s to divert pollutants from these sites, create a plan to implement these BMP’s. Provide a written report on the results of this review.
<sup>2012</sup> Year 4	Continue to implement the strategies as outlined above. e. Continue and document progress on installation of BMPs at City owned facilities f. Research proper disposal of dredge soil, accumulated sediments and debris removed during maintenance activities. Institute proper disposal techniques if not already followed. Document the findings and results of the research.
<sup>2013</sup> Year 5	Continue to implement the strategies as outlined above.