

Commonwealth of Pennsylvania MS4 Annual Report

March 2015 - 2016

Prepared For



Lower Windsor Township, York County





MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) ANNUAL/PROGRESS REPORT

For the Reporting Period: April 1, 2015 to March 31, 2016

- Annual Report Progress Report
 New Permittee Renewal Permittee

Due Date: June 29, 2016

GENERAL INFORMATION			
Permittee Name:	Lower Windsor Township	NPDES Permit No.:	PAG-13 133626
Mailing Address:	2425 Craley Road	Effective Date:	April 1, 2013
City, State, Zip:	Wrightsville, PA 17368	Expiration Date:	March 31, 2018
MS4 Contact Person:	Maureen Hartman	Renewal Due Date:	October 2, 2017
Title:	Township Manager	Admin. Extended?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Phone:	(717) 244-6813	Municipality:	Lower Windsor Township
Email:	mhartman@lowerwindsor.com	County:	York
Co-Permittees (if applicable): Not applicable			

WATER QUALITY INFORMATION

Are there any discharges to waters within the Chesapeake Bay Watershed? Yes No

Identify all surface waters that receive stormwater discharges from storm sewers within the MS4 urbanized area and provide the requested information (see instructions).

Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s)	TMDL?	WLA?
Cabin Creek	WWF	No	N/A	No	No
UNT to Cabin Creek	WWF	No	N/A	No	No
UNT to Cabin Creek	WWF	No	N/A	No	No
UNT to Cabin Creek	WWF	No	N/A	No	No
UNT to Cabin Creek	WWF	No	N/A	No	No
UNT to Cabin Creek	WWF	No	N/A	No	No
Fishing Creek	TSF	No	N/A	No	No
UNT to Fishing Creek	TSF	No	N/A	No	No
UNT to Kreutz Creek	WWF	No	N/A	No	No

Identify any Wasteload Allocations (WLAs) identified in TMDLs for the MS4, if applicable. Identify the pollutant(s) and mass load(s):

Not applicable.

GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

Have you completed all MCM activities required by the permit for this reporting period? Yes No

Provide current contact name and phone number information for the required MCMs (if same as page 1, leave blank):

MCM	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	Maureen Hartman	(717) 244-6813
#2 Public Involvement/Participation	Maureen Hartman	(717) 244-6813
#3 Illicit Discharge Detection and Elimination (IDD&E)	Maureen Hartman	(717) 244-6813
#4 Construction Site Storm Water Runoff Control	Relying on State Program	N/A
#5 Post-Construction Storm Water Management in New Development and Redevelopment	Maureen Hartman	(717) 244-6813
#6 Pollution Prevention / Good Housekeeping	Maureen Hartman	(717) 244-6813

MCM #1 – PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

BMP #1: Develop, implement and maintain a written Public Education and Outreach Program

Measurable Goal: For new permittees a Public Education and Outreach Program (PEOP) shall be developed and implemented during the first year of permit coverage and shall be re-evaluated each permit year thereafter and revised as needed. For renewal permittees, the existing PEOP shall be reviewed and revised as necessary. The permittee’s PEOP shall be designed to achieve measurable improvements in the target audience’s understanding of the causes and impacts of stormwater pollution and the steps they can take to prevent it.

- For new permittees only, attach the written PEOP or a summary thereof to the first report submitted to DEP.
- If you are not a new permittee, did you complete and submit your written PEOP to DEP? Yes No
If Yes, provide the latest submission date: **June 29, 2016**
- Date of last evaluation of or revision to the PEOP: **April 11, 2016**
- What were the plans and goals for public education and outreach for the reporting period?

The Township's plans and goals were to offer education through varying opportunities, including attempting to partner with neighboring municipalities to offer joint educational events.

- Did the MS4 achieve its goal(s) for the PEOP during the reporting period? Yes No

Explain the rationale for your answer:

The Township believes that MS4 related informational and educational material reached their target audiences, using a variety of methods which can be seen in the MCM 1 Appendix.

- Identify specific plans and goals for public education and outreach for the upcoming year:

The Township will continue to distribute pamphlets and seek additional avenues (especially through the use of social media) to broadcast MS4-related educational information.

BMP #2: Develop and maintain lists of target audience groups present within the areas served by your MS4

Measurable Goal: For new permittees, the lists shall be developed within the first year of coverage under the permit and reviewed and updated as necessary every year thereafter. For renewal permittees, the lists shall continue to be reviewed and updated annually.

- For new permittees only, attach your target audience list(s) to the first report submitted to DEP.

2. If you are not a new permittee, did you complete and submit your target audience list to DEP? Yes No
If Yes, provide the latest submission date: **June 29, 2016**
3. Date of last review or revision to target audience list(s): **April 11, 2016**

BMP #3: Annually publish at least one educational item on your Stormwater Management Program

Measurable Goal: For new permittees, stormwater educational and informational items shall be produced and published in print and/or on the Internet within the first year of permit coverage. In subsequent years (and for renewal permittees), the list of items published and the content in these items shall be reviewed, updated, and maintained annually. Your publications shall contain stormwater educational information that addresses one or more of the 6 MCMs.

1. For new permittees only, attach your published stormwater educational or informational materials to the first report submitted to DEP.
2. If you are not a new permittee, did you complete and submit your published stormwater educational or informational materials to DEP? Yes No
If Yes, provide the latest submission date: **June 29, 2016**
3. Do you have a municipal newsletter? Yes No
If Yes, how often was it published during the reporting period and what MS4-related material did it contain?
Bi-annually (once in the spring, and once in the fall).
4. Do you have a municipal website? Yes No (URL: www.lowerwindsor.com)
If Yes, what MS4-related material does it contain?
Links to other groups/agencies which also provide MS4-related, educational material (e.g., Watershed Alliance of York [WAY], York County Conservation District, Codorus Creek Improvement Partnership, Water Environment Federation, etc.).
5. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:
The Township maintains a public kiosk with MS4-related printed publications. The Township maintains a public Facebook page, on which MS4-related educational information is posted. The Township distributes printed MS4-related brochures with all Zoning Permit Applications.
6. Date of most recent review and/or update to published stormwater educational materials: **April 11, 2016**
7. Identify specific plans for the publication of stormwater materials for the upcoming year:
The Township will continue adding MS4-related printed publications to its public kiosk, as well as exploring additional online resources which it can provide to the public via their website and/or Facebook page.

BMP #4: Distribute stormwater educational materials to the target audiences

Measurable Goal: All permittees shall select and utilize at least two distribution methods in each permit year. These are in addition to the newsletter and website provisions of BMP #3.

Identify the two additional methods of distributing stormwater educational materials during the previous year (e.g., displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements, bill stuffers, posters, presentations, conferences, meetings, fact sheets, giveaways, or storm drain stenciling).

Lower Windsor Township has identified three additional distribution methods in the PEOP. The Township digitally publishes a bi-annual newsletter, which contains stormwater and MS4-related educational articles; the Zoning Officer attaches an MS4-related educational pamphlet to all issued building permits; and MS4 is a standing topic of discussion at all of the Township's Board of Supervisors meetings.

MCM #2 – PUBLIC INVOLVEMENT/PARTICIPATION

BMP #1: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP)

Measurable Goal: A new permittee’s PIPP shall be developed and implemented during the first year of coverage under this General Permit. All permittees shall re-evaluate the PIPP each permit year and revise as needed. Your PIPP shall include, but not be limited to:

- a. Opportunities for the public to participate in the decision-making processes associated with the development, implementation, and update of programs and activities related to this General Permit.
- b. Methods of routine communication to groups such as watershed associations, environmental advisory committees, and other environmental organizations that operate within proximity to the permittee’s regulated small MS4s or their receiving waters.
- c. Making your periodic reports available to the public on your website, at your municipal offices, or by US Mail upon request.

- 1. For new permittees only, attach your written PIPP or a summary thereof to the first report submitted to DEP.
- 2. If you are not a new permittee, did you complete and submit your written PIPP or summary to DEP? Yes No
If Yes, provide the latest submission date: **June 29, 2016**

3. Date of last review and/or update to the PIPP: **April 11, 2016**

4. Explain how your PIPP addresses items a, b and c of the Measurable Goal:
A description of the above three requirements and action plans are available in the attached written project plan document for MCM 2.

BMP #2: Prior to adoption of any ordinance (municipal permittees) or SOP (non-municipal permittees) required by the permit, provide adequate public notice and opportunities for public review, input, and feedback.

Measurable Goal: Advertise any proposed MS4 Stormwater Management Ordinance or SOP, provide opportunities for public comment, evaluate any public input and feedback, and document the comments received and the municipality’s response.

- 1. Was an MS4-related ordinance or SOP developed during the reporting period? Yes No
- 2. If Yes, describe how you advertised the draft ordinance and how you provided opportunities for public review, input and feedback:
N/A

3. If an ordinance or SOP was enacted/developed or amended during the reporting period, provide the following information:

Ordinance No. / SOP Name	Date of Public Notice	Date of Public Hearing	Date Enacted
N/A			

BMP #3: Regularly solicit public involvement and participation from the target audience groups. This should include an effort to solicit public reporting of suspected illicit discharges. Assist the public in their efforts to help implement your SWMP. Conduct public meetings to discuss the on-going implementation of your SWMP.

Measurable Goals: Conduct at least one public meeting per year to solicit public involvement and participation from target audience groups. The public should be given reasonable notice through the usual outlets a reasonable period in advance of each meeting. During the meetings, you should present a summary of your progress, activities, and accomplishments with implementation of your SWMP, and you should provide opportunities for the public to provide feedback and input. Your presentation can be made at specific MS4 meetings or during any other public meeting. Under this MCM, you should document and report instances of cooperation and participation in your activities; presentations you made to local watershed organizations and conservation organizations; and similar instances of participation or coordination with organizations in your community. You also should document and report activities in which members of the public assisted or participated in your meetings and in the implementation of your SWMP, including education activities or organized implementation efforts such as cleanups, monitoring, storm drain stenciling, or others.

1. Date of the public meeting(s): **April 11, 2016**
2. How were meeting(s) advertised to the public? **The meeting was advertized through the Township's website and Facebook page**
3. Indicate where the meeting(s) were held and the number of attendees:
The meeting was held at the Lower Windsor Township Building during the regularly scheduled Board of Supervisor's Meeting. Eight Township employees and eight patrons were present.
4. What types of MS4-related activities did you solicit public involvement and participation for?
Stormwater topics are regularly addressed at public Township meetings. Public comment and involvement is always solicited, welcome, and encouraged.
5. What MS4-related activities did the public participate in?
The public was presented information in regards to stormwater and the MS4 program by the township engineer.

MCM #3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E)

BMP #1: You shall develop and implement a written program for the detection, elimination, and prevention of illicit discharges into your regulated MS4s. Your program shall include dry weather field screening of outfalls for non-stormwater flows, and sampling of dry weather discharges for selected chemical and biological parameters. Test results shall be used as indicators of possible discharge sources.

Measurable Goal: For new permittees, the IDD&E program shall be developed during the first year of coverage under this General Permit and shall be implemented and evaluated each year thereafter. For renewal permittees, the existing IDD&E program shall continue to be implemented and evaluated annually. Records shall be kept of all outfall inspections, flows observed, results of field screening and testing, and other follow-up investigation and corrective action work performed under this program.

1. For new permittees only, attach your written IDD&E program to the first report.
2. If you are not a new permittee, did you complete and submit your written IDD&E program to DEP? Yes No
If Yes, provide the latest submission date: **June 29, 2016**
3. Date of last review and/or update to IDD&E program: **April 11, 2016**

BMP #2: Develop and maintain a map of your regulated small MS4. The map must also show the location of all outfalls and the locations and names of all surface waters of the Commonwealth (e.g., creek, stream, pond, lake, basin, swale, channel) that receive discharges from those outfalls.

Measurable Goals: For new permittees, develop the map(s) of your regulated small municipal separate storm sewer systems and the information on all outfalls from your regulated small MS4 by the end of the fourth (4th) year of permit coverage. For renewal permittees, the existing map(s) of your regulated small MS4 shall be updated and maintained as necessary during each year of coverage under the permit.

1. Have you completed a map(s) of all outfalls and receiving waters of your storm sewer system? Yes No

2. For new permittees only, attach the completed map to the 4th year Annual Report.
3. Date of last update or revision to map(s): **June 13, 2016**
4. Total number of discharge points in your storm sewer system that:
Discharge directly to surface waters (outfalls): **18**
Discharge to storm sewers owned by others: **5**
5. Total number of outfalls that are mapped at this time: **23**

BMP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), new permittees shall show, and renewal permittees shall update, the entire storm sewer collection system, including roads, inlets, piping, swales, catch basins, channels, basins, and any other features of the permittee's storm sewer system including municipal boundaries and/or watershed boundaries.

***Measurable Goals:** For new permittees, develop the map(s) by the end of the fourth (4th) year of coverage under the permit and update and maintain the map(s) as necessary each year of permit coverage thereafter. For renewal permittees, update and maintain the map(s) as necessary during each year of permit coverage.*

1. Have you completed a map(s) that includes roads, inlets, piping, swales, catch basins, channels, basins, municipal boundaries and watershed boundaries? Yes No
2. If Yes, is the map(s) on the same map(s) as for outfalls and receiving waters? Yes No
3. For new permittees only, attach the completed map to the 4th year Annual Report.

4. If you are not a new permittee, did you complete and submit your map to DEP? Yes No
If Yes, provide the latest submission date: **June 29, 2016**
5. Date of last update or revision to map: **June 13, 2016**

BMP #4: Following the IDD&E program created pursuant to BMP #1, the permittee shall conduct outfall field screening, identify the source of any illicit discharges, and remove or correct any illicit discharges using procedures developed under BMP #1.

For all permittees, outfall inspections need to be prioritized according to the perceived chance of illicit discharges within the outfall's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless of the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, transporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance Inventory/Sample Collection field sheet excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained to justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the illicit flow also shall be documented.

The results of outfall inspections and actions taken to remove or correct illicit discharges shall be summarized in periodic reports.

1. For new permittees only, were at least 40% of all outfalls screened during dry weather? Yes No

If Yes for #1, indicate the number screened and the percent of all outfalls it represents. If No for #1, indicate reason(s) why this was not completed:

Are you on pace to screen all outfalls twice during the permit term? Yes No
2. For renewal permittees, indicate the percent of outfalls screened during the reporting period: **30%**

Are you on pace to screen all outfalls once during the permit term? Yes No

3. For all permittees, indicate the percent of outfalls screened that revealed dry weather flows: **43%**
4. Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids? Yes No
5. If Yes for #4, attach all sample results to this report with a map identifying the sample location. Explain the corrective action(s) taken in the attachment.

6. Do you use the "Outfall Reconnaissance Inventory / Sample Collection Field Sheet" provided in the permit?
 Yes No
If No, attach a copy of your monitoring form.

BMP #5: Enact a stormwater management ordinance (municipal entities) or develop an SOP (non-municipal entities) to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.

***Measurable Goal:** Within the first year of coverage under the permit, new permittees shall enact and implement an ordinance from an Act 167 Plan approved by the Department in 2005 or later, the MS4 Stormwater Management Ordinance; or an ordinance that satisfies all applicable requirements in a completed and signed MS4 Stormwater Management Ordinance Checklist. (For non-municipal permittees, new permittees shall develop and implement a Standard Operating Procedure (SOP) within the first year of coverage).*

Renewal permittees must continue to maintain, update, implement, and enforce a Stormwater Management Ordinance that satisfies all applicable requirements. (For non-municipal permittees, the SOP satisfies this requirement. If no existing SOP exists, it should be developed during the first year of coverage).

***Measurable Goal:** New permittees shall submit a letter signed by a municipal official, municipal engineer, or the municipal solicitor as an attachment to their first year report certifying the enactment of an ordinance that meets all applicable requirements of this permit. Renewal permittees shall update their existing ordinance, if necessary, and submit documentation of completion to the Department. (For non-municipal permittees, submit the SOP to the first report).*

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that prohibits non-stormwater discharges? Yes No
If Yes, indicate the date of the ordinance or SOP: **Ord. 2012-03, June 14, 2012**
2. For new permittees only, attach an ordinance (or SOP) and letter from an official, engineer or solicitor that prohibits non-stormwater discharges to the first report submitted to DEP.
3. If you are not a new permittee, did you complete and submit your ordinance (or SOP) and letter from an official, engineer or solicitor that prohibits non-stormwater discharges to DEP? Yes No
4. Were there any violations of the ordinance during the reporting period? Yes No
If Yes, describe what enforcement actions were taken for each violation:

BMP #6: Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges.

***Measurable Goals:** During each year of permit coverage, appropriate educational information concerning illicit discharges shall be distributed to the target audiences using methods outlined under MCM #1. If not already established, set up and promote a stormwater pollution reporting mechanism (e.g., a complaint line with message recording) by the end of the first year of permit coverage for the public to use to notify you of illicit discharges, illegal dumping or outfall pollution. Respond to all complaints in a timely and appropriate manner. Document all responses, include the action taken, the time required to take the action, whether the complaint was resolved successfully.*

1. Was IDD&E-related information distributed to public employees, businesses, and the general public during the reporting period? Yes No
If Yes, what was distributed? **Printed literature regarding illicit discharges is made available in the Township office.**

2. Is there a well-publicized method for employees, businesses and the public to report stormwater pollution incidents?
 Yes No
3. Do you maintain documentation of all responses, action taken, and the time required to take action? Yes No

MCM #4 – CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

Are you relying on PA's statewide program for stormwater associated with construction activities to satisfy this MCM?

- Yes No **(If No, complete all remaining questions for this MCM; if Yes, skip to MCM #5).**

BMP #1: Develop your program consisting of all procedures necessary to comply with the requirements of this MCM. Your program shall provide for construction stormwater permitting, construction inspection, and enforcement of installation and maintenance of the necessary E&S control measures. Your program shall describe clearly how your program will be coordinated with DEP's NPDES Construction Stormwater Permitting program.

***Measurable Goals:** For new permittees, the written program for this MCM shall be developed during the first year of permit coverage; nevertheless, you are responsible for implementation of this MCM during entire term of this permit, including the time you are developing your program.*

For all permittees, your program shall be reviewed and updated during each year of permit coverage. The purpose of the written program is to establish clear roles and responsibilities for the implementation of the MCM #4 requirements. An agreement between the permittee, the CCD, and any other resources to be used by the permittee that clearly defines roles for each entity is recommended. If an agreement is made, you shall place and keep a written copy in your file, consistent with the Retention of Records requirements in this Permit. Please note that in accordance with Section A.2.h in Part A of the Authorization to Discharge, as the permittee you are responsible to ensure that implementation of all requirements under this Permit are fulfilled.

1. For new permittees only, attach the written stormwater associated with construction activities program to the first report submitted to DEP.
2. If you are not a new permittee, did you complete and submit your written stormwater associated with construction activities program to DEP? Yes No
If Yes, provide the latest submission date:
3. Date of last update or revision to the stormwater associated with construction activities program:

BMP #2: The permittee shall enact, implement, and enforce an ordinance to require the implementation of erosion and sediment control BMPs, as well as sanctions to ensure compliance.

***Measurable Goal:** Within the first year of coverage under the permit, new permittees shall enact and implement an ordinance that meets all applicable requirements of this permit. (Non-municipal permittees shall develop and implement an SOP).*

***Measurable Goal:** Permittees shall submit a letter signed by a municipal official, municipal engineer or the municipal solicitor as an attachment to their first periodic report certifying the enactment and implementation of a stormwater management ordinance that meets all requirements of this permit.*

1. For new permittees only, attach an ordinance (or SOP) and letter from an official, engineer or solicitor that addresses stormwater associated with construction activities to the first report submitted to DEP.
2. If you are not a new permittee, did you complete and submit your ordinance (or SOP) and letter from an official, engineer or solicitor that addresses stormwater associated with construction activities to DEP? Yes No
If Yes, provide the latest submission date:

BMP #3: Develop and implement requirements for construction site operators to control waste at the construction site that may cause adverse impacts to water quality. While sediment is the most common pollutant of concern for MCM #4, there are other types of pollutants that also can be a concern and the intent of this BMP is to address these other types of pollutants, such as, but not limited to, discarded building materials, washout from concrete trucks, chemicals, litter, and sanitary waste.

Measurable Goal: *New permittees shall establish requirements to address this BMP by the end of the first year of permit coverage. Renewal permittees shall continue to implement existing requirements and update as necessary. This could be implemented by written municipal ordinance/code provisions, by standard notes on the site plans, by any other written format that accomplishes the objectives of this BMP, or by any combination of these measures. The goal of this BMP shall be communicated to construction site operators during pre-construction meetings. This BMP shall be implemented during each year of the MS4 permit. Permittees must prepare and maintain records of site inspections, including dates and results and you must maintain these records in accordance with the Retention of Records requirements in this Permit.*

1. Identify the mechanism(s) in place to regulate construction site operators and wastes produced at construction sites:
2. During the reporting period what has been the results of implementing the mechanism(s) described above?

BMP #4: Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public (to the permittee) regarding local construction activities. The permittee shall demonstrate acknowledgement and consideration of the information submitted, whether submitted verbally or in writing.

Measurable Goal: *Permittees shall establish and implement a tracking system to keep a record of any submitted public information as well as your response, actions, and results. This BMP shall be implemented during each year of coverage under this General Permit and information should be submitted with the each periodic report.*

Describe the tracking system established for documenting public information concerning local construction activities and describe responses taken during the reporting period:

MCM #5 – POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

Are you relying on PA's statewide program for MCM #5 BMPs #1 - #3? Yes No

(If No, complete all remaining questions for this MCM; if Yes, skip to BMP #4)

BMP #1: Develop a written procedure that describes how the permittee shall address all required components of this MCM. Guidance can be found in the Pennsylvania Stormwater Best Management Practices Manual.

Measurable Goal: *The written procedure shall be developed by the end of the first year of permit coverage and be reviewed and updated every permit year thereafter, as needed. The intent of BMP #1 is for the permittee to describe how the listed tasks will be accomplished.*

1. For new permittees only, attach your written procedure for post-construction management to the first report.
2. If you are not a new permittee, did you complete and submit your written procedure for post-construction management to DEP? Yes No

If Yes, provide the latest submission date:

3. Date of last review or update of post-construction management procedure:

BMP #2: Require the implementation of a combination of structural and/or non-structural BMPs that are appropriate to the local community, that minimize water quality impacts, and that are designed to maintain pre-development runoff conditions. This requirement can be met by ensuring that the selected BMPs comply with the municipal Stormwater Management Ordinance that meets the requirements of the permit.

Measurable Goal: All qualifying development or redevelopment projects shall be reviewed to ensure that their post-construction stormwater management plans and selected BMPs conform to the applicable requirements. A tracking system (e.g., database, spreadsheet, or written list) shall be maintained to record qualifying projects and their associated BMPs. In your records, you shall note if there are no qualifying projects in a calendar year.

1. Number of development or redevelopment projects in urbanized area during reporting period:
2. Describe the tracking system in place:
3. Describe the structural and/or non-structural BMPs that were required for these projects:

BMP #3: Ensure that controls are installed that shall prevent or minimize water quality impacts.

Measurable Goal: All qualifying development or redevelopment projects shall be inspected during the construction phase to ensure proper installation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall be implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were not, installed properly). Permittees not relying on DEP's statewide QLP to satisfy requirements under this BMP shall summarize construction inspections and results in periodic reports. See BMP #6 for requirements related to post-construction inspection and tracking of PCSM BMPs to ensure that the operation and maintenance plan is being implemented.

If there were development or redevelopment projects during the reporting period, attach documentation of inspections of PCSM BMPs to this report.

BMP #4: The permittee shall enact, implement, and enforce an ordinance (municipal) or SOP or other regulatory mechanism (non-municipal) to address post-construction stormwater runoff from new development and redevelopment projects, as well as sanctions and penalties associated with non-compliance, to the extent allowable under State or local law.

Measurable Goal: Within the first year of coverage under this permit, new permittees shall enact and implement a stormwater management ordinance (municipal) or SOP (non-municipal) that meets the requirements of this General Permit.

Measurable Goal: All permittees shall submit a letter signed by a municipal official, municipal engineer or the municipal solicitor as an attachment to their first periodic report certifying the enactment of a stormwater management ordinance that meets the requirements of this General Permit.

1. Do you have an ordinance (or SOP) to address post-construction stormwater runoff from new and redevelopment projects and does it include sanctions? Yes No
If Yes, indicate the date of the ordinance or SOP: **Ord. 2012-03, June 14, 2012**
For new permittees only, attach a copy of the ordinance or SOP.
2. If you are not a new permittee, has the ordinance (or SOP) been submitted to DEP with a letter from an official, engineer or solicitor that certifies the enactment of an ordinance or SOP for PCSM activities? Yes No
3. Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities? Yes No

BMP #5: Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new and redevelopment. Measures also should be included to encourage retrofitting LID into existing development. DEP's Pennsylvania Stormwater Best Management Practices Manual provides guidance on implementing LID practices.

Measurable Goal: *In your inventory of development and redevelopment projects authorized for construction since March 10, 2003, that discharge stormwater to your regulated MS4s, indicate which projects incorporated LID practices and for each project list and track the BMPs that were used.*

Measurable Goal: *Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices. Progress with enacting and updating your ordinances to enable the use of LID practices shall be summarized in the periodic reports.*

1. Identify ordinances enacted or updated during the reporting period to ensure consistency with LID practices:

No Township Ordinances were enacted or updates during this reporting period to ensure consistency with LID practices.

BMP #6: Ensure adequate operation and maintenance of all post-construction stormwater management BMPs installed at all qualifying development or redevelopment projects (including those owned or operated by the permittee).

Measurable Goal: *Within the first year of coverage under this permit, new permittees shall develop and implement a written inspection program to ensure that stormwater BMPs are properly operated and maintained. The program shall include sanctions and penalties for non-compliance. All permittees shall review and update the inspection program annually and shall continue to implement this BMP.*

Measurable Goal: *An inventory of PCSM BMPs shall be developed by permittees and shall be continually updated during the term of coverage under the permit as development projects are reviewed, approved, and constructed. This inventory shall include all PCSM BMPs installed since March 10, 2003 that discharge directly or indirectly to your regulated small MS4s. The inventory also should include PCSM BMPs discharging to the regulated small MS4 system that may cause or contribute to violation of water quality standard. The inventory shall include:*

- all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003;
- the exact location of the PCSM BMP (e.g., street address);
- information (e.g., name, address, phone number(s)) for BMP owner and entity responsible for BMP Operation and Maintenance (O&M), if different from BMP owner;
- the type of BMP and the year it was installed;
- maintenance required for the BMP type according to the Pennsylvania Stormwater BMP Manual or other manuals and resources;
- the actual inspection/maintenance activities for each BMP;
- an assessment by the permittee if proper operation and maintenance occurred during the year and if not, what actions the permittee has taken, or shall take, to address compliance with O&M requirements.

1. For new permittees only, attach the written inspection program to ensure that stormwater BMPs are properly operated and maintained.

2. If you are not a new permittee, did you complete and submit your written inspection program to ensure that stormwater BMPs are properly operated and maintained to DEP? Yes No

If Yes, provide the latest submission date: **June 29, 2016**

3. How do you ensure that stormwater BMPs are properly operated and maintained? Explain if you rely on means other than municipal inspections to ensure adequate O&M (consistent with your stormwater ordinance).

See MCM 5 Appendix.

4. Date that inspection program was last reviewed or updated: **April 11, 2016**

5. Total number of sites with PCSM BMPs installed as of the date of this report: **13**

6. Total number of sites inspected during this reporting period: **0**

7. Number of sites found to have PCSM BMP deficiencies: **0**

8. Number of enforcement actions taken during this reporting period: **N/A**

MCM #6 – POLLUTION PREVENTION / GOOD HOUSEKEEPING

BMP #1: Identify and document all facilities and activities that are owned or operated by the permittee and have the potential for generating stormwater runoff to the regulated small MS4. This includes activities conducted by contractors for the permittee. Activities may include the following: street sweeping; snow removal/deicing; inlet/outfall cleaning; lawn/grounds care; general storm sewer system inspections and maintenance/repairs; park and open space maintenance; municipal building maintenance; new construction and land disturbances; right-of-way maintenance; vehicle operation, fueling, washing and maintenance; and material transfer operations, including leaf/yard debris pickup and disposal procedures. Facilities can include streets; roads; highways; parking lots and other large paved surfaces; maintenance and storage yards; waste transfer stations; parks; fleet or maintenance shops; wastewater treatment plants; stormwater conveyances (open and closed pipe); riparian buffers; and stormwater storage or treatment units (e.g., basins, infiltration/filtering structures, constructed wetlands, etc.).

Measurable Goal: By the end of the first year of permit coverage, new permittees shall identify and document all types of municipal operations, facilities and activities and land uses that may contribute to stormwater runoff within areas of municipal operations that discharge to the regulated small MS4. Renewal permittees should have completed this list during the previous permit term. For all permittees, this information shall be reviewed and updated each year of permit coverage, as needed. Part of this effort shall include maintaining a basic inventory of various municipal operations and facilities.

1. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? Yes No
2. When was the inventory last reviewed? **April 11, 2016**
3. When was it last updated? **April 11, 2016**
4. How many new facilities and/or activities were added to this inventory during this reporting period? **0**

BMP #2: Develop, implement and maintain a written operation and maintenance (O&M) program for all municipal operations and facilities that could contribute to the discharge of pollutants from the regulated small MS4s, as identified under BMP #1. This program (or programs) shall address municipally owned stormwater collection or conveyance systems, but could include other areas (as identified under BMP #1). The O&M program(s) should stress pollution prevention and good housekeeping measures, contain site-specific information, and address the following areas:

- Management practices, policies, procedures, etc. shall be developed and implemented to reduce or prevent the discharge of pollutants to your regulated small MS4s. You should consider eliminating maintenance-area discharges from floor drains and other drains if they have the potential to discharge to storm sewers.
- Maintenance activities, maintenance schedules, and inspection procedures to reduce the potential for pollutants to reach your regulated small MS4s. You also should review your procedures for maintaining your stormwater BMPs.
- 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 (anti-skid) storage locations and snow disposal areas.
- Procedures for the proper disposal of waste removed from your regulated small MS4s and your municipal operations, including dredge spoil, accumulated sediments, trash, household hazardous waste, used motor oil, and other debris.

Measurable Goal: During the first year of permit coverage, new permittees shall develop and implement a written O&M program that complies with BMPs #1 and #2. Renewal permittees shall continue to implement their existing program. All permittees shall review the O&M program annually, edit as necessary, and continue to implement during every year of permit coverage.

1. For new permittees only, attach the written O&M program to the first Annual Report.
2. If you are not a new permittee, did you complete and submit your written O&M program to DEP? Yes No
If Yes, provide the latest submission date: **June 29, 2016**

3. Date of last review or update to O&M program: **April 11, 2016**

BMP #3: Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from municipal operations to your regulated small MS4s. The program may be developed and implemented using guidance and training materials that are available from federal, state or local agencies, or other organizations. Any municipal employee or contractor shall receive training. This could include public works staff, building / zoning / code enforcement staff, engineering staff (on-site and contracted), administrative staff, elected officials, police and fire responders, volunteers, and contracted personnel. Training topics should include operation, inspection, maintenance and repair activities associated with any of the municipal operations / facilities identified under BMP #1. Training should cover all relevant parts of the permittee's overall stormwater management program that could affect municipal operations, such as illicit discharge detection and elimination, construction sites, and ordinance requirements.

***Measurable Goal:** During the first year of permit coverage, new permittees shall develop and implement a training program that identifies the training topics that will be covered, and what training methods and materials will be used. Renewal permittees shall continue to operate under their existing program. All permittees shall review the training program annually, edit it as necessary, and continue to implement it during every year of permit coverage.*

***Measurable Goal:** Your employee training shall occur at least annually (i.e., during each permit coverage year) and shall be fully documented in writing and reported in your periodic reports. Documentation shall include the date(s) of the training, the names of attendees, the topics covered, and the training presenter(s).*

1. For new permittees only, attach the written training program to the first Annual Report.
2. If you are not a new permittee, did you complete and submit your written training program to DEP? Yes No
If Yes, provide the latest submission date: **June 29, 2016**
3. Date of last review or update to training program: **April 11, 2016**
4. Identify the date(s) of employee training, the names of attendees, the topics covered, and the training presenters:
This information is provided in MCM 6 Appendix.

BEST MANAGEMENT PRACTICES (BMPs)

Provide an assessment of the appropriateness of the BMPs implemented to date, and identify any steps that will be taken to address deficiencies in the BMPs or make changes to BMPs or other aspects of the SWMP developed by the permittee.

Lower Windsor Township continues to review and revise the Mimimum Control Measure Project Plans as deemed necessary. The Township believes that all requirements of the permit are being adequately met.

MS4 TMDL Plan

Chesapeake Bay Pollutant Reduction Plan (CBPRP)

Is the permittee required to develop an MS4 TMDL Plan?
 Yes No

Is the permittee required to develop a CBPRP?
 Yes No

What is the status of the TMDL Design Details (if applicable)?
 Under Development (Due Date:)
 Submitted to DEP (Submission Date:)
 Approved by DEP (Approval Date:)

What is the status of the CBPRP (if applicable)?
 Under Development (Due Date:)
 Submitted to DEP (Submission Date:)
 Approved by DEP (Approval Date: **8/31/2015**)

For permittees with DEP-approved MS4 TMDL Plans and/or CBPRPs, describe progress with implementing BMPs and other activities identified in those plans:

The Township is a member of the York County-wide Chesapeake Bay Pollutant Reduction Plan. As indicated above, this plan was approved by DEP on August 31, 2015.

For permittees with DEP-approved MS4 TMDL Plans and/or CBPRPs, complete the section below. Identify the required pollutant reductions (for those with MS4 TMDL Plans) or pollutant reductions committed to by the permittee (for those with CBPRPs) and the cumulative reductions achieved through implementing the BMPs, as of the end of the reporting period:

The County Management Committee voted to fund five projects in conjunction with the County Plan. No BMPs have been built to date.

BMP INVENTORY

List all new structural BMPs installed and ongoing non-structural BMPs implemented in the urbanized area during the reporting period that are being used toward achieving load reductions in the permittee's MS4 TMDL Plan and/or CBPRP. Provide a name or description for each BMP, the area, in square feet (sf) that drains to each BMP (drainage area (DA)) (if applicable), the location of the BMP (latitude and longitude), the name of the water body that receives discharges from the BMP (if applicable), the date the BMP was installed or implemented, and whether the BMP was completed pursuant to an NPDES permit for stormwater associated with construction activities or other NPDES permit (check box if done under an NPDES permit).

BMP Name / Description	DA (sf)	Latitude	Longitude	Receiving Waters	Date Installed or Implemented	NPDES Permit?
No new BMPs installed this year		o ' "	o ' "			<input type="checkbox"/>
		o ' "	o ' "			<input type="checkbox"/>
		o ' "	o ' "			<input type="checkbox"/>
		o ' "	o ' "			<input type="checkbox"/>
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OTHER REQUIRED REPORT ELEMENTS

Identify the progress towards achieving the statutory requirements of reducing the discharge of pollutants to the Maximum Extent Practicable (MEP) and complying with water quality standards.

In addition to efforts within the Township's MS4 program, Lower Windsor Township is participating in the York County Regional Chesapeake Bay Pollutant Reduction Plan effort. The plan will fund numerous projects with the main purpose of reducing the amount of pollutants discharged to the Bay.

Provide a summary of stormwater activities planned during the next reporting cycle (not identified previously in this report):

The Township's Board of Supervisors and Staff will continue to meet and discuss MS4 opportunities. Project Plans will be modified and revised as determined by the Board.

Provide a summary of notices, intergovernmental agreements and other relevant documents if the permittee is relying on another governmental entity to satisfy any of its permit obligations

Lower Windsor Township has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the County's and the Township's roles with respect to the E&S and Permitting requirements of MCMs 4 and 5.

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 gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Maureen S. Hartman

Name of Responsible Official

Maureen S. Hartman

Signature

717 244 6813

Telephone No.

May 31, 2016

Date

MCM #1 Appendix

- **MCM #1 Project Plan**
- **BMP 1.1 Attachments**
 - List of Educational Materials Provided by the Township
 - When it Rains it Drains Brochure
- **BMP 1.3 Attachments**
 - Spring/Summer 2015 Township Newsletter
 - Fall/Winter 2015 Township Newsletter
 - Township Website Page
 - Township Facebook Postings
 - Brochure Distribution Spreadsheet 2015-2016
 - Township Office Brochure Holder
 - Bulletin Board Postings
- **BMP 1.4 Attachments**
 - Stormwater Event Flyer

MCM #1 Project Plan

- BMP 1.1

Description:

Develop, Implement and maintain a written Public Education and Outreach Program

Measurable Goal:

For new permittees a Public Education and Outreach Program (PEOP) shall be developed and implemented during the first year of permit coverage and shall be re-evaluated each permit year thereafter and revised as needed. For renewal permittees, the existing PEOP shall be reviewed and revised as necessary. The permittee's PEOP shall be designed to achieve measurable improvements in the target audience's understanding of the causes and impacts of stormwater pollution and the steps they can take to prevent it.

Action Plan:

This plan will be reviewed annually, at a minimum, and revised when deemed necessary. This plan was last reviewed on April 11, 2016 at a meeting with Maureen Hartman, Township Manager; Sande Cunningham, Township Zoning Officer; Kim Miller, Road Master; and John Klinedinst, P.E. and Derek Rinaldo, E.I.T. of C.S. Davidson, Inc.

- BMP 1.2

Description:

Develop and maintain lists of target audience groups present within the areas served by your MS4

Measurable Goal:

For new permittees, the lists shall be developed within the first year of coverage under the permit and reviewed and updated as necessary every year thereafter. For renewal permittees, the lists shall continue to be reviewed and updated annually.

Action Plan:

The Township has identified residents, elected officials, and contractors as target audiences. At least one of the educational activities listed under BMP 1.3 and 1.4 will reach each target audience annually.

- BMP 1.3

Description:

Annually publish at least one educational item on your Stormwater Management Program

Measurable Goal:

For new permittees, stormwater educational and informational items shall be produced and published in print and/or on the Internet within the first year of permit coverage. In subsequent years (and for renewal permittees), the list of items published and the content in these items shall be reviewed, updated, and maintained annually. Your publications shall contain stormwater educational information that addresses one or more of the 6 MCMs.

Action Plan:

i) Printed material:

Printed Educational Pamphlets at Township Office – The Township will provide various educational pamphlets for public distribution at various locations in the Township Administration Office and in the lobby. Pamphlets will be refilled as needed and the subject matter be rotated at the Township Manager's discretion. A summary of educational pamphlets available during each permit year will be provided in each corresponding annual report. The target audience group for this activity is the residents of the Township.

ii) Website:

The Township provides links to EPA and DEP's MS4 websites from their page,

<http://www.lowerwindsor.com/>. A link to the Watershed Alliance of York, a local watershed group, is also provided for resident access.

- BMP 1.4

Description:

Distribute stormwater educational materials to target audiences

Measurable Goal:

All permittees shall select and utilize at least two distribution methods in each permit year. These are in addition to the newsletter and website provisions of BMP #3.

Action Plan:

i) Township Newsletter:

The Township publishes a biannual newsletter which is available for viewing and printing on their website. The newsletter is also mailed to residents who do not have access to the internet. Each issue of the newsletter contains at least one educational stormwater article or graphic. The Township Manager and Zoning Officer are responsible for ensuring this component is complete. The target audience group is the residents of the Township.

ii) Building Permits:

The Township Zoning Officer is responsible for attaching an educational stormwater permit to all building permits that are issued by the Township. Lower Windsor Township is currently utilizing the "When It Rains It Drains" pamphlet. The target audience groups for this activity are contractors and residents of the Township.

iii) Facebook Page:

The township maintains a Facebook Page on which stormwater educational links and articles are shared along with other community information. The target audience group for this activity is residents of the Township.

iv) Meetings:

Township Board of Supervisors Meetings – MS4 is standing item on the Township Engineer's monthly reports. These reports are reviewed at the Township Supervisors meetings which occur on the second Thursday of every month. MS4 topics are discussed in greater detail as deemed necessary. The target audience group at these meetings is primarily the elected officials, however residents of the Township also benefit since meetings are open to the public.

MCM 1

Lower Windsor Township provides one brochure holder inside the Township's administrative office area that dedicates two rows of brochures specific to stormwater. Two additional brochure holders were added in 2015 and are located in the Lobby. One holder provides a mixture of brochures, mostly about watersheds, rain gardens, wells, backyard burning, etc. The third holder is specific to FEMA. All brochures are now documented on a spreadsheet which provides a monthly count of the brochures. Items of interest are also posted on the bulletin board of the public meeting room. Please refer to the spreadsheet for a documented listing of the brochures we make available, as well as the photos of the brochure holders and bulletin board.

Other forms of Public Education & Outreach include the following:

Stormwater Fair:

In 2015, Lower Windsor Township partnered with Hellam Township and Wrightsville Borough (all Susquehanna River Communities), to provide an educational & informational stormwater fair. Numerous organizations participated in the event including the DCNR, Lancaster Conservancy, Susquehanna Gateway Heritage Area, Chesapeake Bay Foundation, York County Planning Commission, Stewards of the Lower Susquehanna, York County Conservation District, Red Lion Municipal Authority, Penn State Extension Office, C. S. Davidson, Hellam Township EAC, Wrightsville Water Authority, and American Rivers. Rain Barrels were given out as door prizes and many attended from the participating municipalities, as well as from surrounding municipalities.

Zoning Permit Applications:

Between April 1, 2015 and March 31, 2016, 116 zoning permit applications were handed out with the "When It Rains, It Drains" brochure attached to it.

Rain Gardens:

We maintain a binder at the front desk with information on planting various kinds of rain gardens. There is also information available on how to make a rain barrel. Numerous residents have stopped by to pick up information and/or discuss with staff.

WAY E-NEWS:

When the Township staff finds an article that could be of interest to residents from the Watershed Alliance of York's "Way E-News", we relay that information via our newsletters or the Township's Facebook page.

Township Newsletters:

The Township provides a newsletter, once in the spring and once in the fall, to residents. Newsletters are posted on our Facebook page and website, and printed copies are now sent to residents who request hard copies. Hard copies are also available at the office (lobby and public meeting room), Craley Post Office, and the Susquehanna Senior Center.

Board of Supervisors and Planning Commission Meetings:

Regularly, the elected officials and planning members discuss stormwater issues at their monthly meetings. This is more frequently conducted since the inception of the Chesapeake Bay Pollutant Reduction Plan Regional Committee. Other areas of discussion include the research and feasibility of a stormwater authority with the York County Planning Commission.

Once a year, the elected officials have an educational presentation for residents. This year, it was held on February 11, 2016.

Answers to Test Your Storm Sewer System Savvy:

- 1. Ditch**—Part of the storm sewer system. Most people think that the system is just a series of underground pipes. It can also include ditches used to convey storm water from the land to a receiving lake, river, or stream.
- 2. Fire Hydrant**—Not part of the storm sewer system. Water sprayed from fire hydrants is not storm water, but is allowed by law to enter the storm sewer system.
- 3. Curb with Storm Drain Inlet**—Part of the storm sewer system. Many people do not realize that this is an opening leading to the storm sewer system. Anything going into this inlet (e.g., trash, leaves, improperly disposed of hazardous materials) travel directly to a receiving lake, river, or stream, without being treated first. Many communities stencil storm drains with "Do Not Dump" messages to let people know.
- 4. Storm Sewer Outfall**—Part of the storm sewer system. An outfall is where storm water drains from the storm sewer system into a receiving lake, stream, or river. If there is a flow from an outfall when it isn't raining, there could be a problem with the system or someone has used a storm drain for illegally disposing of materials.
- 5. Toilet**—Not part of the storm sewer system. Wastewater from sinks and toilets in houses and businesses travel through a sewer system constructed to carry sanitary wastes. In some instances, older communities may have a combined sewer system designed to carry both storm water and sanitary waste.
- 6. Septic System**—Not part of the storm sewer system. Homeowners use septic tanks to manage sanitary wastes on-site. Improperly maintained septic systems can leak and contribute pollutants to the storm sewer system, as well as directly to lakes, rivers and streams.
- 7. Roads and Other Paved Areas**—Not part of the storm sewer system. Roads and other hardened surfaces such as parking lots and sidewalks can accumulate pollutants (e.g., oil, grease, dirt, leaves, trash, pet wastes) that storm water eventually washes into the storm sewer system.
- 8. Storm Drain Inlet**—Part of the storm sewer system. This is another example of what a storm drain may look like. Like the storm drain inlet shown in picture #3, anything that enters this drain will go directly to streams, rivers, and lakes without being treated first. It is important to recognize this as a storm drain to prevent it from being used as a trash can.

Where To Go To Continue the Information Flow

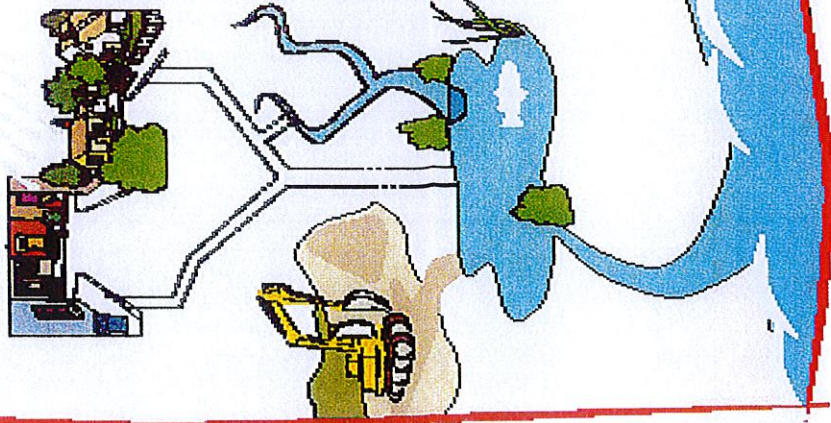
Your community is preventing storm water pollution through a storm water management program. This program addresses storm water pollution from construction, new development, illegal dumping to the storm sewer system, and pollution prevention and good housekeeping practices in municipal operations. It will also continue to educate the community and get everyone involved in making sure the only thing that storm water contributes to our water is water! Contact your community's storm water management program coordinator or the Pennsylvania Department of Environmental Protection for more information about storm water management.



Pennsylvania Department of Environmental Protection
www.dep.state.pa.us

When It Rains, It Drains

Understanding Storm
Water and How It Can
Affect your Money,
Safety, Health and the
Environment



POSTAL PATRON

US POSTAGE
PAID
Craley, PA
Permit #1
17312

Lower Windsor Township
2425 Craley Road
Whtgtsville, PA 17368

What Happens When It Rains?

Rain is an important part of nature's water cycle, but there are times it can do more damage than good. Problems related to storm water runoff can include:



Flooding caused by too much storm water flowing over hardened surfaces such as roads and parking lots, instead of soaking into the ground.

Increases in spending on maintaining storm drains and the storm sewer system that become clogged with excessive amounts of dirt and debris.



Decreases in sport fish populations because storm water carries sediment and pollutants that degrade important fish habitat.



More expensive treatment technologies to remove harmful pollutants carried by storm water into our drinking water supplies.



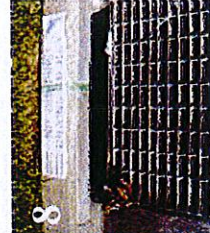
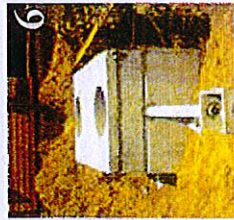
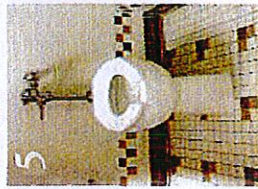
Closed beaches due to high levels of bacteria carried by storm water that make swimming unsafe.



We can help rain restore its good reputation while protecting our health and environment while saving money for ourselves and our community. Keep reading to find out how...

Test Your Storm Sewer System Savvy!

What does the storm sewer system look like in Your community? See if you can identify which pictures are part of the storm sewer system. (Answers are on the back.)



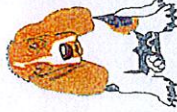
What is Storm Water?

Storm water is water from precipitation that flows across the ground and pavement when it rains or when snow and ice melt. The water seeps into the ground or drains into what we call storm sewers. These are the drains you see at street corners or at low points on the sides of streets. Collectively, the draining water is called storm water runoff.

Why is Storm Water "Good Rain Gone Wrong?"

Storm water becomes a problem when it picks up debris, chemicals, dirt, and other pollutants as it flows or when it causes flooding and erosion of stream banks. Storm water travels through a system of pipes and roadside ditches that make up storm sewer systems. It eventually flows directly to a lake, river, stream, wetland, or coastal water. All of the pollutants storm water carries along the way empty into our waters, too, because storm water does not get treated.

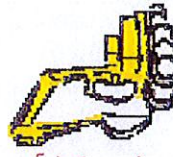
Pet wastes left on the ground get carried away by storm water, contributing harmful bacteria, parasites and viruses to our water.



Vehicles drip fluids (oil, grease, gasoline, antifreeze, brake fluids, etc.) onto paved areas where storm water runoff carries them through our storm drains and into our water.



Chemicals used to grow and maintain beautiful lawns and gardens, if not used properly, can run off into the storm drains when it rains or when we water our lawns and gardens.



Waste from chemicals and materials used in construction can wash into the storm sewer system when it rains. Soil that erodes from construction sites causes environmental degradation, including harming fish and shellfish populations that are important for recreation and our economy.

Restoring Rain's Reputation: What Everyone can Do To Help

Rain by nature is important for replenishing drinking water supplies, recreation, and healthy wildlife habitats. It only becomes a problem when pollutants from our activities like car maintenance, lawn care, and dog walking are left on the ground for rain to wash away. Here are some of the most important ways to prevent storm water pollution:

- Properly dispose of hazardous substances such as used oil, cleaning supplies and paint—never pour them down any part of the storm sewer system and report anyone who does.
- Use pesticides, fertilizers, and herbicides properly and efficiently to prevent excess runoff.
- Look for signs of soil and other pollutants, such as debris and chemicals, leaving construction sites in storm water runoff or tracked into roads by construction vehicles. Report poorly managed construction sites that could impact storm water runoff to your community. (See the back of this brochure for contact information.)
- Install innovative storm water practices on residential property, such as rain barrels or rain gardens, that capture storm water and keep it on site instead of letting it drain away into the storm sewer system.
- Report any discharges from storm water outfalls during times of dry weather—a sign that there could be a problem with the storm sewer system.
- Pick up after pets and dispose of their waste properly. No matter where pets make a mess—in a backyard or at the park—storm water runoff can carry pet waste from the land to the storm sewer system to a stream.
- Store materials that could pollute storm water indoors and use containers for outdoor storage that do not rust or leak to eliminate exposure of materials to storm water.



LOWER WINDSOR TOWNSHIP

Spring/Summer 2016 Newsletter

York County, PA

Eagle Scout Project Completed

Lower Windsor Township resident Jimmy Kurnik, recently earned the highest rank in scouting, the Eagle Scout, by completing a project in Lower Windsor Township.

The project consisted of creating a raised flower bed with an incorporated bench around the “Babe” Sitler Memorial sign, located in the village of Craley. The raised flower bed and bench was constructed to beautify the village and allow the Susquehanna Senior Center members and Boy Scouts from Troop 49 to come together to plant and tend the flowers.

Eagle Scout Rank

Each year tens of thousands of young men strive to achieve the coveted Eagle Scout rank by applying character, citizenship, and Scouting values in their daily lives. One of the rank requirements is to plan, develop, and give leadership to others in a service project helpful to any religious institution, school, or community. Through this, Scouts practice what they have learned and gain valuable project management and leadership experience.

Project Management

Jimmy contacted the Township in 2014 and provided a presentation of his plans to the elected officials and staff. He met with the zoning officer, building and grounds supervisor, and township manager to discuss permit requirements and provide the appropriate documentation to start the project. Jimmy completed the project on August 5, 2015 and was awarded the Eagle Scout on October 21, 2015. Congratulations to Jimmy on this prestigious achievement.



“Babe” Sitler Memorial located in the village of Craley

Inside This Issue:



<i>Police Department</i>2	<i>Zoning Department</i>3	<i>Recycling in America</i>7
<i>Burning Ordinance Update</i>2	<i>Highway Department</i>3	<i>Non Toxic Home Cleaning</i>7
	<i>2016 Budget</i>4	<i>River Recreation</i>8
	<i>2016 Township Appointments</i>4	<i>Eastern York Area Recreation</i>8
	<i>OLDS Reminder</i>4	<i>Spring Clean-Up Coupon</i>9
	<i>Tax Collector Schedule</i>4	<i>Bits and Pieces</i>9
	<i>Summer Storm Safety</i>5	<i>Susquehanna Senior Center</i>9
	<i>Utility Scams</i>5	<i>Township Events Calendar</i>9
	<i>Farming For Clean Water</i>6	<i>Fire Company Events</i>10

Visit our website at www.lowerwindsor.com

MUNICIPAL BUILDING

Lower Windsor Township

2425 Craley Road

Wrightsville, PA 17368

Office Hours:

Mon - Fri, 8:00 am - 4:30 pm

Phone: (717) 244-6813

Fax: (717) 244-0746

www.lowerwindsor.com



ELECTED OFFICIALS

Barry Miller - Chairman

Gerald Kellner - Vice-Chair

Donald Schock - Supervisor

MEETING DATES

Meetings are held at the municipal building beginning at 6:30 pm. All residents are welcomed.

BOARD OF SUPERVISORS

Meets the 2nd Thursday of each month.

ZONING HEARING BOARD

Meets the 3rd Thursday of each month, as needed.

PLANNING COMMISSION

Meets the 4th Thursday of each month.



Police Department

HOME SAFETY

According to the FBI, the highest percent of home burglaries occur during the summer months. While prepping for your summer vacation, make sure you are also preparing your home as well.

- * **NEVER** post on social media that you will be on vacation.
- * Have someone check on your home or fill out a vacation check form with your local police department.
- * Stop your mail and newspaper or have someone pick it up daily.
- * Install a timer on indoor lights.
- * Cut your grass before you leave.

Police say taking these basic steps can bring you peace of mind so that you can relax while on vacation.

SHOP WITH A COP

The Lower Windsor Township Police Officers' Association (LWTPOA) started the Shop-With-A-Cop program in 2005. The program has been so successful that funds now come in from many very generous individuals and local businesses who contribute to the LWTPOA without hesitation. Most of the children have been nominated from school staff members and Officers that see a need for family assistance during the holiday season. This past holiday, 20 children from Lower Windsor were asked to participate in the program. The LWTPOA was pleased to take 18 children and their families to Target and assist them with shopping. Several of the Officers, in addition to staff members,

took part in shopping for, and wrapping, the purchased gifts. Breakfast was donated by Township residents and a local business owner provided lunch. Their contributions were greatly appreciated! This program gives the Officers a chance to give back to the Township residents and allows the Officers a chance to connect with children on a personal level.

DEPARTMENT TOURS

If you are involved with youth or school organizations or scouts, and would like your group to have a tour of the Lower Windsor Township Police Department, please give us a call at 717-244-8055 to set something up!

DISTRACTED DRIVERS

April is Distracted Driving Awareness Month. Some things to consider when driving are:

- * Consider turning your cell phone off or putting it on silence while driving. Remember, hands-free is not risk-free.
- * Be aware of motorcycles now that the weather is warming up. Over half of all fatal motorcycle crashes involve another vehicle and most of the time, the car or truck driver, not the motorcyclist, is at fault.
- * Don't eat or groom yourself while driving.

For more quick tips, booklets, videos, or downloadable materials, visit the Motorcycle Safety Foundation at msf-usa.org or ForCarDrivers.com.



Have a safe summer!

Burning Ordinance

Burning Ordinance Update—The Board of Supervisors have approved the new Burning Ordinance which will take effect by mid March. The entire Ordinance can be found on our website. As in the previous Burning Ordinance, no burning is permitted on Sundays. Please take the time to review the new Ordinance on our website. Or you can come to the Township office and review a copy of the ordinance. The following are some changes that have been made.

Open Burning—All burning shall be supervised by a responsible adult in close proximate attendance until such fire is extinguished. This person shall have a garden hose connected to a water supply, or other fire extinguishing equipment or materials readily available for use.

Call 9-1-1—Burning not done in a substantial container should be called in to York County Control 9-1-1 so the local fire departments will have advance notice of the burning.

Distance—No burning shall take place within thirty (30) feet of a structure or a property line.

Zoning Department

COMPLAINTS - Lower Windsor Township has a process for addressing complaints related to its Zoning Ordinances. The process begins with an official complaint and is managed through the Township Zoning Department. Examples are as follows:

- Construction without permits
- Tall grass, weeds
- Trash, outdoor stockpiling
- Other miscellaneous infractions against the Township Ordinances.

Before submitting a complaint, please be aware of the following items:

- It is always a good idea to talk with your neighbor first when there is a problem. Most people prefer to have an opportunity to address an issue informally before receiving an official violation notice from the Township.

- The Township believes the best approach to enforcing an ordinance is through voluntary compliance. We prefer to work with residents to resolve violations before enforcement actions are necessary.
- The Township must follow a specific, often lengthy procedure, in order to resolve a complaint.
- The Township shall only respond to a complaint if the required information is provided in writing. **The Township will not respond to an anonymous complaint.** Information about the identity of a person complaining cannot be released, as this information is exempt from the Right to Know Law 65 P.S. §67.708(B)(17). In the event that a case goes to court, a person may be asked and/or summoned by official subpoena to provide testimony on the complaint.

CALL BEFORE YOU DIG

This year's brutal winter likely left many of you itching to start planning or get going on those outdoor home improvement projects. We don't blame you, but we also want you to stay safe.

That means if you have a project that involves digging, you need to call Pennsylvania One Call at least three business days before you start. State law requires it.

Underground power lines that serve many newer housing developments carry the same voltage as overhead lines. Digging into them can cause serious injury or death.

Reaching PA One Call is easy. Dial 811 or 1-800-242-1776 at any time. You will be asked to outline the project area in white paint to help locators identify where you will be working.



Highway Department

Now that the winter of 2016 is behind us, it's time to start thinking about cleaning up and preparing for spring and summer projects. As a reminder, Highway Department employees will trim back any vegetation that hinders clear sight at intersections, as well as any vegetation within the public rights-of-way. This also includes intersections where Township roadways intersect with state roads.

2016 ROAD PROJECTS

The Road Master and Township Engineer have prepared their *proposed* list of road projects for 2016. Residents can expect paving, crack sealing, pipe repair and replacement, oil and chip and other general road maintenance

to be conducted on the following roads or locations:

Pine Hollow Road
Taylor Road
Kennick Drive
Fox Creek Estates
Elham Drive
Valley View Road
Gable Hill Road
Trinity Church Road North
Dallas Drive
Miller Spring Road/Canadochly to Cool Creek
Snyder Corner Road
Meisenhelder Road
Smyser Road
Pleasant View Road
Schmuck Road

OIL AND CHIP

Oil and chip treatments, or chip seals, are cost-effective treatments placed on lower-traffic volume roads that see fewer than five to ten thousand vehicles per day. During the operation, liquid asphalt is applied to seal fine cracks in the surface, which, untreated, will collect water and freeze, eventually allowing potholes to form. Stones are crushed to a specific size and spread over the sprayed road to provide a skid-resistant surface. Generally, it takes about two days for the stones to fully bond in the hardened asphalt.

With very limited funds, chip sealing applied to these roadways offer a 3-7 year preservation that costs one third as much as regular pavement.

Although this method is sometimes unpopular with residents, it does extend the lifespan of roadways.

Motorists should reduce their speed on these roads until the stone and asphalt fully adhere.

PENNDOT PROJECTS

Two bridge projects that could impact Lower Windsor Township residents are proposed for replacement in 2016 under PennDOT's Rapid Bridge Replacement Project Program. The projects will require either road closures or detours. The projects are:

- 1) PA425 over Fishing Creek near Craley (2016).
- 2) PA 124 over Kreutz Creek near Delroy/Yorkana (2017).

Construction dates are not yet finalized but detours and updates will be posted on the Township's Facebook page and website.

2016 Budget

On December 10, 2015 the Lower Windsor Township Board of Supervisors voted to approve the 2016 budget for the Township. There was no tax increase to residents with the \$3,105,219.00 budget, and the millage rate will remain at 1.0. York County increased the rate to 5.16 mills and Eastern York School District increased their rate to 21.02 mills.

The Chesapeake Bay pollutant reduction initiative, as well as changes in stormwater regulations and associated programs, still remain costly unfunded mandates for municipalities. The police budget includes a new police vehicle, reflects a 3% growth, and is 50% of the Township's overall budget.

In 2016, the Supervisors anticipate an allocation of approximately \$330,880.00 of liquid fuels funds from the State. These funds are used for Township roadway maintenance, snow removal, pipes and tires for highway vehicles, line painting, and sign management.

2016 Township Appointments

Congratulations to the elected and appointed individuals and volunteers who have chosen to serve our community. We thank the residents who volunteer their time and look forward to a successful 2016.

Board of Supervisors: Barry Miller, Chair; Gerald Kellner, Vice-Chair; and Don Schock, Supervisor

Board of Auditors: Sue McKinsey, Chair; Allison Blew, Vice-Chair and Secretary; Ray Smeltzer.

Zoning Hearing Board: George Yakubowski, Chair; Chuck Barnes, Vice-Chair; Anthony Skiptunas, Secretary; Fred Uffelman, Ray Kaltreider, and Charles Loper, Alternate

Planning Commission: Julia Parrish, Chair; Kelly Skiptunas, Vice-Chair; Hollis Bedell, Secretary; Melissa Wirls, Joel Beck, and Lew Brown, Alternate

Engineer: John Klinedinst, C.S. Davidson

Solicitor: John Herrold, Griest, Himes,

Herrold, Reynosa, LLP

Animal Enforcement: Michelle Klugh, Klugh Animal Control Services

Sewage Enforcement: Keith Hunnings, South Penn Code Consultants, LLC

EMC: Phil Smith, Emergency Management Coordinator

Building Code Official: Commonwealth Code Inspection Service, Inc.

Our appreciation to resident **Evan Shaw** for serving on the zoning hearing board for 12 years. Evan was honored with a plaque for his service on February 18.



Left to right - Anthony Skiptunas, Chuck Barnes, Evan Shaw, George Yakubowski, and Fred Uffelman

OLDS Reminder

A reminder that 2016 is the year for all township residents located in District #3 to have your septic systems pumped and inspected by December 31, 2016, in order to comply with the On-Lot Sewage Disposal System or OLDS requirement.

The zoning department typically receives phone calls this time of year asking for information on the process. Keep in mind that pumping is only required every four (4) years and it must be pumped out within one (1) year of your scheduled year to be considered in compliance with the ordinance. Pumping your system at any given time, just as long as it's within the four (4) years of your last pumping, is not acceptable.

District #3 consists of all properties west of Prayer Mission and Snyder Corner Roads and south of East Prospect Road.

Questions? Click on Departments - Sewage Enforcement on our website at www.lowerwindsor.com.

Tax Collector's Schedule

Robert Kline, Tax Collector
85 New Bridgeville Road, PO Box 323
Craley Pa 17312

Phone: (717) 417-5214

OFFICE SITTINGS

April 4—9:00am–1:00pm.

April 6 and April 11 —9:00am-12:00pm and 2:00pm-5:00pm.

SPECIAL SITTINGS

April 5— Lower Windsor Township Building (upper level) 3:00pm-6:00pm.

April 7—Morning: Susquehanna Senior Center (twp. building lower level)

10:00am-1:00pm.

Evening: Canadochly Valley Ambulance Building (rear of building)

3:00pm-6:00pm.

April 9—Eastern High School-Lower Gym Lobby 9:00am-11:00am.

April 15—Craley Community Fire Hall 2:00pm-6:00pm.

BY APPOINTMENT ONLY

January 1 thru March 31, 2016

April 16 thru September 1, 2016

CLOSED HOLIDAYS AND WEEKENDS

Summer Storm Safety

LIGHTNING SAFETY TIPS

Summer is the peak time of the year for lightning strikes and lightning fires. However, lightning does occur year round. It's important to be prepared for this dangerous weather phenomenon.

OUTDOOR SAFETY

✓ If you can hear thunder, you are within striking distance of lightning. Look for shelter inside a home, large building, or a hard-topped vehicle right away. Do not go under tall trees for shelter. There is no place outside that is safe during a thunderstorm. Wait at least 30 minutes after the last thunder before leaving your shelter.

✓ Stay away from windows and doors.

✓ If you are in, or on, open water, go to land and seek shelter immediately.

✓ If you feel your hair stand on end, that means lightning is about to strike, squat low to the ground on the balls of your feet. Place your hands over your ears and your head between your knees. Make yourself the smallest target possible and minimize your contact with the ground. Do not lie flat on the ground. This is a last resort when a building or hard-topped vehicle is not available.

✓ If a person is struck by lightning, call 9-1-1 and get medical care immediately. Lightning strike victims carry no electrical charge; attend to them immediately. Check their breathing, heartbeat, and pulse. CPR may be needed.

INDOOR SAFETY

✓ Unplug appliances and other electrical items, like computers, and turn off air conditioners. If you are unable to unplug them, turn them off. Stay off corded phones, computers, and other electronic equipment that put you in direct contact with electricity or plumbing. Avoid washing your hands, bathing, doing laundry, or washing dishes.

DOWNED LINES & EMERGENCIES

Touching a live power line can cause serious injury or death. You can't tell by looking whether a line is "hot" or not.

Did you know?

"Lightning never strikes twice" unfortunately is a myth. Lightning can strike the same location many times. Lightning safety week is the last week in June of each year.

Even if a downed line isn't actively sparking, always assume it is carrying electricity.

If you come upon a downed power line, accident or emergency,

- 1) **DO NOT** go near the wire or anything it's touching and
- 2) **CALL 9-1-1**

It's important to provide the exact location when reporting an electrical emergency. To report issues directly to your utility company, use these following emergency numbers:

PPL - 1-800-342-5775

First Energy (Met Ed) - 1-888-544-4877

NOTE: The Township cannot assist residents by removing trees or downed/broken poles from lines, nor can they assist if lines are completely down in the road. Make the safe decision and call 9-1-1.

Utility Scams (from Met Ed)

To help raise awareness of fraudulent activity and educate utility customers about threats to their personal safety and security, FirstEnergy (Met Ed) has a dedicated web site: www.firstenergycorp.com/scaminfo. The site describes known scams targeting utility customers and provides tips and resources to help consumers identify fraudulent schemes.

Scam artists impersonating utility company employees have targeted victims through door-to-door visits, phone calls, and electronic communications. The criminals often try to instill fear that power will be disconnected if the victim does not comply with the demands. Customers have reported the theft of money, personal data and valuables. This website is part of Met-Ed's continuing effort to educate customers about scam activity and help them avoid falling victim to con artists who are posing as representatives of Met-Ed. It offers facts and safety reminders that can help customers avoid becoming a victim of these crimes.

PROTECT YOURSELF

Your power company will never call you and threaten immediate service disconnection. A lengthy process takes place before the plug is pulled. Typically, multiple written notices are sent to the customer.

Your power company will never call and demand payment via a prepaid debit card. If you get a call like this, hang up.

If you're concerned about your account, call the utility company using a number you trust. Obtain the number from an old bill or look it up on the internet. Do not use the number that may have appeared on your caller ID.

Slow down and think, before falling for this scam.

Farming for Clean Water

HOW CAN FARMERS REDUCE POLLUTION?

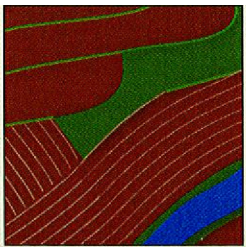
Practices that reduce pollution from agriculture are well known and proven by science. What's more, many of them also improve animal health, increase productivity, reduce the need for costly fertilizers, and promote improved soil quality—all of which can increase a farmer's bottom line. Some of these methods are shown below.

Bay state farmers have implemented many conservation practices. In 2013, U.S. Department of Agriculture report, *Impacts of Conservation Adoption on Cultivated Acres of Cropland in the Chesapeake Bay Region, 2003-06 to 2011*, indicating that more than 90 percent of the farms in the Chesapeake region have one or more conservation practices in place. The report also reveals that there is much more work to be done.

For example, buffers are in place on less than one-third of cropped acres in the Chesapeake Bay region. According to Bay States' 2013 progress reports, watershed-wide, they planted just 229 miles of forested buffer in 2013. That's an alarmingly small fraction of the goal of 900 miles of forested buffer the states committed to plant every year.

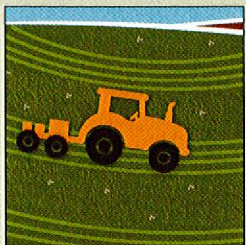
Methods to Reduce Pollution from Agriculture

CROPLAND:



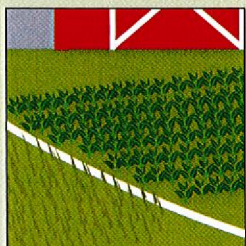
Field Buffers

Field buffers are planted areas around farmland that help filter polluted runoff before making its way to our streams, rivers, and ultimately, the Bay.



No Till/Conservation Tillage

Practices that do not disturb the soil, reduce erosion, and improve soil quality, benefit productivity and reduce pollution and costs.



Cover Crops

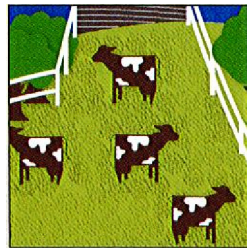
Crops planted after the primary crop is harvested, help reduce erosion from wind and rain and take up nitrogen remaining in fields after harvest. They also can improve soil health and provide forage.



Proper Use of Fertilizer

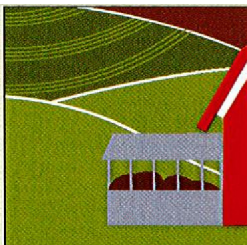
Nutrient Management Plans guide farmers' decisions on the correct rate, timing, and method of manure and fertilizer application. In doing so, they can help the farmer's bottom line.

LIVESTOCK:



Stream Exclusion

Fencing livestock out of streams prevents stream bank erosion and direct pollution from animal manure. Keeping livestock from standing in the water also improves herd health, lowers veterinarian bills, and can improve a farmer's bottom line.



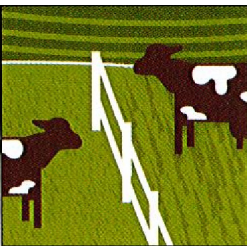
Manure Management

Manure management is capturing, storing, treating, and utilizing animal waste for distribution on fields in amounts that enrich soils without causing water pollution or unacceptably high levels of phosphorus and nitrogen. Manure management is a component of nutrient management.



Forested Buffers

Planting trees around the edge of crop fields, pastureland, and stream banks traps and absorbs pollution and prevents erosion. They also cool streams and provide wildlife habitat.



Rotational Grazing

Converting livestock operations from grain fed systems to grazing systems improves soil's ability to retain excess nutrients, and rotating animals between pastures reduces erosion. These practices also lower costs and labor.

Recycling In America

Over the years, you have probably noticed the increase in recycling bins popping up around the state as there is an increased focus on “going green” in America.

The national recycling rate has increased every year for the past thirty years. According to the Environmental Protection Agency (EPA), the U.S. municipal recycling rate was 34.5 percent in 2012, a fall of 0.2 percentage points from the 2011 level.

IT LASTS HOW LONG?

The impacts can be seen across the country and in our community. The numbers speak for themselves.

700—The number of years that it will take for plastic bottles to biodegrade.

1 million—The number of years it will take for glass bottles to biodegrade.

270 million—Waste tires disposed of each year.

200 million—Gallons of used motor oil improperly disposed of each year.

1 ton—The amount of office paper that can conserve 4,100 kilowatts of energy.

Americans dispose of 83 million tons of paper products. According to the EPA, by recycling nearly half of that, we could save 705 million trees and 290 billion gallons of fresh water.

Remember, if it goes in the trash can, it will sit in the landfill. If it goes in the recycling bin, it will be reused to make new products.

DOING YOUR PART TO RECYCLE

The Township provides recycling bins 24/7 at the Lower Windsor Township Maintenance Building, 111 Walnut Valley Court, Wrightsville. Recyclables can be placed together, and there is no need for sorting. Please do not put anything other than the following items in the bin, this includes plastic bags.

Paper, paperboard, and cardboard

Plastic containers #’s 1-7—The neck of the container must be smaller than the base.

Glass—Clear, brown and green glass, food and beverage containers.

Metal cans—Aluminum beverage cans, steel food and beverage cans, aerosol cans.

Please contact the office for further details or questions at 717-244-6813. The recycling area is under 24-hour surveillance. Dumping is strictly prohibited and violators will be prosecuted.



ELECTRONIC RECYCLING

As of November 15, 2015 Lower Windsor Township can no longer collect electronics. This is due to a change in the electronic recycling program with York County Solid Waste Authority (YCSWA). Municipalities are no longer reimbursed by the County, and electronics are not picked up and removed from drop-off stations.

RECYCLING TIPS

Half is better than none. You may not be able to recycle your whole pizza box, but in most communities you can tear off the top (as long as it is grease free) and put it in your recycling bin.

You bet your bottle tops. Yes, the caps on your plastic bottles are recyclable too.

More than grocery bags. Along with plastic grocery bags, recycle the bags from your loaf of bread, and the newspaper. Remember to take clean, dry bags to recycling centers or retailers with plastic bag recycling bins.

A trick up your sleeve. Paper cups are not always recyclable because of the wax lining, but don't forget to recycle the cardboard sleeve.

Look beyond the daily paper. According to the U. S. Environmental Protection Agency, paper and cardboard are America's most recycled materials by weight. In addition to newspaper, most communities accept corrugated cardboard as well as cereal and tissue boxes. Some accept mail, catalogs, and phone books.

Source: Keep America Beautiful

Did you know?

Earth Day and Arbor Day both fall in April, giving us two good reasons to show our support for the environment.

HOMEMADE SUBSTITUTIONS

Soap—Is biodegradable and will clean just about anything. Avoid soaps that contain petroleum distillates.

Cornstarch—Clean windows, polish furniture, & shampoo carpets and rugs.

Baking Soda—Cleans, deodorizes, softens water and scours.

Lemon—Effective against most household bacteria.

White Vinegar—Cuts grease, removes mildew, odors, some stains and wax build-up.

Isopropyl Alcohol—An excellent disinfectant.

Non-Toxic Home Cleaning

Today's home is loaded with toxic and polluting substances designed to make cleaning easier. The cost of commercial, chemical-based products can be high. Environmental pollution and family health can be a concern when using these chemical based products over a period of time. There are many inexpensive,

easy-to-use natural alternatives which can safely be used in place of commercial household products. Here is a list of common, environmentally safe products which can be used alone, or in combination, for many household applications.

River Recreation

RECREATION AREAS

One Lake, Two Counties. Lake Clarke is the dividing line between York and Lancaster Counties, but there's fun to be had on both sides! For boating, for picnicking, for water skiing, or for some simple fun in the sun, recreational activities abound along the shores of Lake Clarke. Park pavilion reservations can be made by calling Safe Harbor Monday through Friday at 717-871-9667.

The scenic Susquehanna River attracts many outdoor enthusiasts, who enjoy a variety of recreational activities as the seasons permit. Kayaking and canoeing are popular activities which require portage around the dam. In order for paddlers to continue on their journey, a minimum of 24 hours notice is required. Please contact Chiques Rock Outfitters at: www.chiquesrockoutfitters.com or call (717) 475-6196. GPS Coordinates for portage at the Safe Harbor Dam takeout point located at the southeast corner of Lake Clarke are: 39 55'36.63"N 76 23'43.82"W. Hours of Operation are from 8:00 a.m. to 8:00 p.m. Always remember that safe boating practices are essential when enjoying Lake Clarke, the Susquehanna River, and Long Level areas!

LAKE CLARKE- is home to Long Level Marina, Safe Harbor's boat-access areas, Susquehanna Yacht Club, Lake Clarke Rescue Inc., and two private marinas that are located on the York County side of the lake.



The United States Coast Guard Auxiliary has several flotillas of Division 19 (5th Northern Region) that patrol the area of Lake Clarke and is based out of Station Long Level located on the York side of the lake in Lower Windsor Township. Daily information about conditions on Lake Clarke, such as lake elevations, river flow, water temperatures, fishing and ice conditions, emergency water-level drawdowns, and activities at nearby recreation areas is available by calling the following toll-free number : 1-800-692-6328 or by visiting <http://www.shwpc.com>.

LOCK 2 BOAT ACCESS AREA-This is Lake Clarke's most popular public boat-launch area. Thousands of boaters take to the water each year from this spot, but landlubbers also enjoy the picnic and playground facilities. Lock 2 is located just off Route 624 in Lower Windsor Township.

KLINER'S RUN PARK-After a day of sailing or water skiing on the lake, your group can picnic here in a pavilion that accommodates up to 100 people (it's first come, first served). There also are picnic and playground facilities. Kline's Run is also located on Route 624 Long Level Road about three miles south of Wrightsville.

CABIN BRANCH CREEK PARK-The park is located on Route 624 and provides enjoyment for many baseball teams, hikers, and picnickers.

Eastern York Area Recreation Commission (EYARC)

The EYARC exists to offer a wide variety of recreational and educational opportunities and services to the residents of Lower Windsor Township and East Prospect and Yorkana Boroughs.

The EYARC Board is comprised of the following volunteers: Krystal Zimmerman, Chair; Victor Dodson, Vice-Chair; Jen Fahringer, Secretary; Juanita Smith, Treasurer; and members Jason Malone, Jon Shevelew, Mary Caldwell and Don Barshinger.

The EYARC has something to offer everyone, from adult sports and fitness programs to youth and children's programs.

NEW Summer Reading Program

The summer reading program will be held at Rexroth Park in the large pavilion beginning June 10th and ending August 5th. This program is part of the Summer Read Program held at all local libraries over the summer and is in conjunction with the Kaltreider-Benfer library. The program is FREE to all participants. Please go to the EYARC Facebook page or website for more information.

Upcoming Events & Trips

March 1-Summer Day Camp-Registration begins.

March 26-Easter Egg Hunt-Call to register.

April 11-School Aged Child Care-New registration begins.

May 14-Ocean City, Maryland Springfest.

June 11-EYARC Carnival runs from 3:00pm-9:00pm. Enjoy games, food, a country band, and fireworks.

July 23-Cape May, New Jersey Whale Watching.

Sept 24-Ocean City, Maryland Sunfest.

Upcoming Programs

Tiny Tumblers, Kicker's Soccer, T-Ball, and Basic Cheer.

Donations

As a Not-For-Profit organization, we have needs which could be met through contributions from the community. Items need to be in fair condition and include the following: Newspaper, bailing twine, white sheets, white pillow cases, and children's clothing sizes 2t-6t.

For more information on these opportunities and a full description of all the programs please view our website at www.eyarc.org or contact the office at (717) 246-8155 Monday thru Friday 9:00am-3:00pm and ask to speak with Roxanne.



Physical fitness is not only one of the most important keys to a healthy body; it is the basis of dynamic and creative intellectual activity. - **John F. Kennedy**

Lower Windsor Township Spring 2016 Clean – Up Coupon

TO: Lower Windsor Township Residents (**proof of residency required**)

GOOD FOR: One pickup truck load under 17,000 lbs. Anything over this weight limit must have a sticker from DEP. Contact DEP with any questions at (717) 783-9258.

UNACCEPTABLE ITEMS: Engines, paints, lawn mowers, tires, white appliances, electronics, batteries, yard waste, chemicals, pressurized gas containers, liquid waste, and electrical components. For further information contact Modern Landfill at (717) 246-2686.

DATES: Week of **April 18-23** **TIMES:** Mon - Fri, 7:00am-3:30pm and Sat., 7:00am-9:30am.

ADDITIONAL COUPONS: Available at the Township office (limit of 2 per household).

**** Please note time changes****

Susquehanna Area Senior Center

The Susquehanna Senior Center is located at 2427 Craley Road, in the lower level of the Lower Windsor Township Municipal building. The center is open Monday thru Friday 8:00am–2:30pm for anyone aged sixty (60) and over.

Our mission is to promote the health, emotional, social and intellectual well-being of the senior citizens in our community through daily programming. The senior center is partially funded by the County of York, but primary funding comes from member fundraising, and donations from community partners.

Some of the programs we offer include: choral group, book club, fitness classes, yoga, line dancing, and a bluegrass 'pickin parlor' jam session. Intermixed with these programs are crafts, live entertainment, socials, bus trips, healthy living, Bible study, manicures, games, daily hot lunch, and many opportunities to share fellowship.

Upcoming Events

April 15—Bingo Fundraiser.

May 6—Spring Fling Dance.

August 19—Charity Baseball Game.

For more information on these programs or any of our upcoming events please visit our website at www.susquehannaseniorcenter.org or contact the office at 717-244-0340.

Transportation can be arranged to attend the senior center by way of Rabbit Transit's Share a Ride Program.



Membership is **free** at the Susquehanna Senior Center, "where the river of life continues to flow."

Come and join the fun!

Bits and Pieces



New Resident Welcome Packet - As a way for new residents to become familiar with the area, Township staff has put together a welcome packet. The packet includes a municipal directory and map, current newsletter, tax information, informative brochures, and much more. New residents can obtain their packet by either calling or stopping by our offices, which are located at:

2425 Craley Road, Wrightsville Pa 17368

Phone: 717-244-6813, Hours: M-F, 8am-4:30pm

Thank You - The Eastern York County Emergency Management Agency (EYCEMA) extends our appreciation to Deputy EMC, Jarrett McLane, for his dedication and assistance with the EYCEMA. Jarrett recently accepted a position in Austin, Texas with the Texas Department of State Health Services and will be working as an Emergency Planner in the Response & Recovery Division. We congratulate Jarrett on his success and thank him for his commitment to the EYCEMA and the community. Good Luck, Jarrett!



Events Calendar

March 16-FREE Pedometer! To the first 50 participants who sign up for York County Walks, a program sponsored by York County Healthy Coalition. This FREE community event takes place at the Lower Windsor Township Building (upper level) beginning at 6:00pm. For more information visit www.healthyyork.org. To register (include the event date) call 717-851-2333 or email Deb Gogniat at dgogniat@wellspan.org.

April 9-Brush drop-off resumes at the Highway Department, 111 Walnut Valley Court. Conducted the 2nd Saturday of each month from 7:00am-9:00am. Proof of residency will be required.

April 26-Primary Election Day, polls open from 7:00am-8:00pm.

Note: The Township offices are closed on the following dates: **March 25, May 30, July 4, and September 5.**

Yorkana Fire Company Events

EVENTS CALENDAR

April 16 and July 23-50/50 Dinner, dinners begin at 5:00pm. Tickets are \$12.00 and you must be 21 to attend.

April 23, May 21, June 18 and September 17-Bluegrass, all bluegrass events begin at 6:00 pm. There will be a \$12.00 admission fee, food will also be available for sale.

April 30-Yard Sale/Food Sale beginning at 8:00am. Spaces are available for \$10.00.

A reminder, the fire hall is available for rent with the option for catering. For questions concerning hall rental or for any of the events, please contact Jen Hose at jen.hose@yorkanafireco.org or 717-873-5202.

BECOME A VOLUNTEER

Have a desire to give back to your community? We accept volunteers for social events, firefighters, and fire police. No training or experience needed.

Mother's Day Dinner

MENU

- Lettuce with hot bacon dressing
- Ham
- Homefries
- Corn
- Applesauce
- Rolls
- Drink
- Dessert

When: May 8th Yorkana Fire Hall
Time: 11:00am
Cost: Ages 5-12 \$8.00 Adults \$12.00
 Ages 4 and under FREE.

Craley Fire Company Events

EVENTS CALENDAR

April-Selling pretzel sandwiches to be delivered on May 19.

9-Chicken BBQ with East Prospect Lions Club. Spring Gun Raffle at 1:00pm.

22-Food and Grocery Auction beginning at 5:30pm.

May-Selling subs to be delivered on June 23.

14-Chicken BBQ with East Prospect Lions Club.

June 11-Chicken BBQ with East Prospect Lions Club.

July-NO SCHEDULED FUNDRAISERS.

August-Selling pretzel sandwiches to be delivered on September 29.

12-13-Craley Days.

September-Selling subs to be delivered on October 20.

October-Poinsettia sale begins for December delivery.

7, 14, 21 and 28-60th annual Shooting Match beginning at 7:00pm.

November 4, 11, and 18-Shooting Match beginning at 7:00pm.

12-15th annual Bingo doors open at 5:00pm and Bingo begins at 6:30pm.

25-Black Friday Shooting Match at 1:30pm. Black Friday Gun Raffle.

December-NO SCHEDULED FUNDRAISERS.

January 2, 2017- New Year's Day Shooting Match begins at 1:30pm.

Comedy Show



The Craley Fire Department is planning a comedy show. Look for more details to be announced at a later date.

For more information on the fundraisers or any upcoming event, please contact Don Fake at 717-244-9245.

****All dates are tentative and subject to change****

LOWER WINDSOR TOWNSHIP

2015 Fall-Winter Newsletter

York County, Pennsylvania

MUNICIPAL BUILDING

Lower Windsor Township
2425 Craley Road
Wrightsville, PA 17368

Office Hours:

Mon - Fri, 8:00 am - 4:30 pm

Phone: (717) 244-6813

Fax: (717) 244-0746

www.lowerwindsor.com



ELECTED OFFICIALS

Barry Miller - Chairman
Gerald Kellner - Vice-Chair
Donald Schock - Supervisor

MEETING DATES

Meetings are held at the municipal building beginning at 6:30 pm. All residents are welcomed.

BOARD OF SUPERVISORS

Meets the 2nd Thursday of each month.

ZONING HEARING BOARD

Meets the 3rd Thursday of each month, as needed.

PLANNING COMMISSION

Meets the 4th Thursday of each month.

Fishing Creek Rehabilitation Project

Background - A project that was discussed about two years ago between four neighboring municipalities, is finally coming to fruition due to funding provided through Marcellus Shale money, grants and donations.

The project, which is located in Windsor Borough, consists of rehabilitating a segment of Fishing Creek and upgrading Laucks Memorial Park. The four municipalities, Lower Windsor and Windsor Townships and Windsor and Red Lion Boroughs will provide 'in-kind' services for the park project and stream rehabilitation.

Impaired Waters - The portion of Fishing Creek that flows through Laucks Park has been designated as an impaired waterway by the PA Department of Environmental Protection (DEP). The intent of the project is to improve the water quality of the creek. This

project will include the restoration of approximately 500 feet of stream bank with the ultimate goal of reducing or eliminating the identified impairments and returning the watershed to an 'unimpaired' status.

Laucks Park - The bridge over the creek leading to the baseball field will be replaced with a bridge that is handicap accessible and natural stone steps will be added to allow for access to the creek.

Rain gardens filled with wetland plants will capture runoff and help rectify flooding issues that have plagued the area. The playground will be updated with new equipment; the ball field will be regraded; and bleachers, a backstop, and fencing will be replaced.

Funding - Along with the Marcellus Shale grant provided by the York County Commissioners, other sources include the

Department of Conservation & Natural Resources, Modern Landfill, Exelon, Chesapeake Bay Pollutant Reduction Plan Consortium, and Home Depot.

Timeline - Work will begin sometime in the fall of 2015 and completion is scheduled for spring 2016. Watch for more information on a 'grand opening' for the project!

Inside this issue:

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Police Department

South Central Alert

Emergency Management Agencies throughout the South Central Task Force (SCTF), which includes the counties of Adams, Cumberland, Dauphin, Franklin, Lancaster, Lebanon, Perry and York, are implementing a new emergency notification service. This service will allow residents and businesses in the eight county area to be notified of an emergency situation and important alert messages in a variety of ways, including on their cell phones, home and work phones, by text messaging and e-mail. For more information or to register, go to www.sctfpa.org/sc-alert.php.

Quick Response Team

The York County Quick Response Team or QRT, uses a select group of law enforcement officers to provide assistance to local law enforcement agencies in the management and resolution of special threats and high-risk incidents.

Lower Windsor Township Police Officer Mark Jackson recently completed the initial QRT qualification process and has been accepted to its three week training school which will be held at a later date. We congratulate Officer Jackson and thank him for serving our community and the citizens of York County.

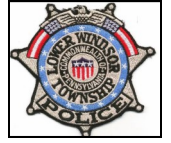
Hunting Complaints

As a reminder with hunting season quickly approaching, all complaints *must* be made by dialing 9-1-1. They will discuss your emergency with you and dispatch the appropriate agency (Police or Game Commission) to the incident. Please do not call the Police station directly.

Shop-With-A-Cop

Donations are still being accepted for the 2015 Shop-With-A-Cop holiday event.

With your support, you can help a child have a special holiday experience!



Lower Windsor Police Department, left to right, Officers Leach, Vitko, and Kortright; Cpl Thomas, Chief Caldwell, Sgt Wind; Officers Jackson, Neff and Dickmyer

Winter Tips

Stay Healthy, Stay Safe!

With cold weather quickly approaching, here are some general guidelines to remember for a safe and healthy winter.

Generator exhaust is toxic. Always put generators outside well away from doors, windows, and vents. Carbon monoxide (CO) is deadly, can build up quickly, and linger for hours.

Combustion appliances are those which burn fuels for warmth, cooking, or decorative purposes. Typical fuels are gas, both natural and liquefied petroleum; kerosene; oil; coal; and wood. Examples of the appliances are space heaters, ranges, ovens, furnaces, wood burning stoves, fireplaces, water heaters, and clothes dryers. These appliances are usually safe. However, under certain conditions, these appliances can produce combustion pollutants that can damage your health, or even kill you.

Possible health effects range from headaches, dizziness, sleepiness, and watery eyes to breathing difficulties or even death. Similar effects may also occur because of common medical problems or other indoor air pollutants. For more information and tips please visit <http://www.epa.gov/burnwise/bestburn.html>.

Consider using non-toxic de-icing substances such as clean clay cat litter, sand, or fireplace/stove ash to prevent hazardous waste from chemicals. Chemical de-icers can be hazardous to your pets, your trees and shrubs, and the environment. Antifreeze that leaks from car engines and chemical snow melters on driveways, roads, and runways, can pollute surface waters and groundwater through the soil.

Winterize your vehicle by checking your air filter and fluid levels, checking tires for tread wear and proper inflation, and checking the condition of your windshield wipers. Ensuring your vehicle is ready for weather changes will reduce damage, which prevents waste from broken parts, and will keep you safe on the road.

Falls are the number one cause of injuries to adults. Many of these falls happen when sidewalks, driveways, and walkways are covered in snow and ice. Make sure any of these surfaces around



your home are shoveled regularly and free from debris. Ice is always a concern during the winter. Your regular routine for keeping access to your home clear should include adding sand or clay litter to slippery spots.

Certain people should avoid shoveling snow, since they may be more prone to injury. If you have a history of heart problems, you should consider avoiding this activity. Other things to consider when shoveling include dressing appropriately, warming up your muscles, choosing the right shovel, shoveling with proper form, and staying hydrated.

Keep your pets inside. Dogs and cats left outside can freeze, get injured or become lost.

The ASPCA suggests wiping your dog's legs and stomach down when they come in from snowy or icy conditions. Dogs can ingest salt, antifreeze and other chemicals when licking their paws.

Did you Know? About 170 people in the United States die every year from CO.

OLDS Reminder

A reminder that 2015 is the year for all township residents located in District #2 to have your septic systems pumped and inspected by December 31, 2015, in order to comply with the On-Lot Sewage Disposal System or OLDS requirement.

The zoning department typically receives phone calls this time of year asking for information on the process. Keep in mind that pumping is only required every four (4) years and it must be pumped out within one (1) year of your scheduled year to be considered in compliance with the ordinance. Pumping your system at any given time, just as long as it's within the four (4) years of your last pumping, is not acceptable.

District #2 consists of all properties south of East Prospect and Calvary Church Roads and east of Prayer Mission and Snyder Corner Roads.

Questions? Click on Departments - Sewage Enforcement on our website at www.lowerwindsor.com.

Tax Collector's Schedule

ROBERT KLINE, TAX COLLECTOR
85 NEW BRIDGEVILLE ROAD, PO BOX 323
CRALEY, PA 17312
PHONE: (717) 417-5214

OFFICE SITTINGS

September 30 - 9:00 am - 1:00 pm

November 30 - 9:00 am - Noon and 2:00 pm - 5:00 pm

December 30 - 1:00 pm - 5:00 pm

***Please note** - No personal checks accepted after December 15 of the current year. Only cash, money order, or bank check will be accepted until December 31, 2015. All current real estate and per capita tax bills unpaid by December 31, 2015, will be turned over for collection. Additional amounts may be required.

BY APPOINTMENT ONLY

September 28, 2015 thru April 1, 2016

Closed Holidays & Weekends

Parking Issue at the Township Building

When visiting the Lower Level of the Township building, please remember that there is NO PARKING at the entrance. This area is only for pick up/drop off, deliveries, and emergency services. This applies to daytime hours as well as evening hours for EYARC and Senior Center activities.

Land Preservation

The York County Agricultural Land Preservation Board (YCALPB) is pleased to announce that from 1990 through January 1, 2015, 265 farms covering 40,094 acres, have been preserved! This includes farms preserved through easement purchase or easement donation. So far in 2015, the YCALPB board has received 43 applications totaling 3,688 acres and has selected six farms on 504 acres for easement purchase.

Land and farm owners interested in land preservation efforts may contact the York County Ag Preservation Program or go to www.YorkCountyPA.gov. Useful links and a preservation map now show all preserved farms within the county.

The York County Ag Land Preservation Program continues to rank third in the state and ninth in the Nation for acres of farmland preserved.

YCALPB office hours are 8:00 am to 4:30 pm Monday through Friday. The YCALPB office is located in the County Annex Building at 118 Pleasant Acres Road or telephone (717) 840-7400.

Did You Know? Bob Hoffman of York is hailed the world round as the Father of Weightlifting. Hoffman started York Barbell in 1932.

Calendar of Events

September 15 - Multi-municipal Educational Stormwater Fair at the Hellam Township Public Works Building, 5:00 - 7:00 pm

October 19-24 - Fall Clean-Up at the Landfill. This is a "Residents Only" program and a coupon & identification is required (coupon, page 5)

October 22 - Budget Workshop, 6:00 pm

October 31 - Trick or Treat Night, 6:00 - 8:00 pm

November 3 - General Election Day, polls open from 7:00 am - 8:00 pm

January 4, 2016 - Reorganization Meeting, 6:30 pm

Note: The Township offices are closed on the following dates: **November 26 & 27, December 24, 25 & 31 and January 1, 2016**

Welcome New Sewage Enforcement Officer

Lower Windsor Township welcomes Keith Hunnings from South Penn Code Consultants, LLC as our new SEO. Keith comes to us due to the retirement of our long-time SEO, Bob Whitmore. Keith has been an SEO since 2008 and services seven other municipalities. Keith's office is located in Shrewsbury Township and he can be contacted by calling (717) 942-2248. Dave Brown from Gordon L. Brown Associates will remain the alternate SEO.

We welcome Keith to our community and we wish Bob a happy and healthy retirement!

Zoning Department

Burning Ordinance – The Planning Commission has been working on amending our burning ordinance. Currently the ordinance does not require that burnings should be attended. Also not included is the distance from burning to structures or property lines. We have had input from our Police Chief and Fire Chief for the changes to the ordinance. Acquiring the input from our emergency services is always beneficial when amending such ordinances. We hope to have the ordinance amended before autumn.

Chickens – We get numerous questions regarding the keeping of chickens. Most of Lower Windsor Township is located in the Agricultural district. In this district, for the non-commercial keeping of livestock, the size of your lot doesn't matter because livestock, small animals or poultry are permitted. However, if you live in any of the other districts; Village, Residential, Waterfront Recreational or Industrial, your parcel must

have a minimum of five (5) acres in order to have the non-commercial keeping of livestock, small animals or poultry. If you live in any district other than Agricultural and have been raising livestock, small animals or poultry since before the Ordinance was enacted in 2003, you may continue to do so.

Complaints – Lower Windsor Township has a process for addressing complaints related to its Zoning Ordinances. The process begins with an official complaint and is managed through the Township Zoning Department. Examples are as follows:

- Construction without permits
- Tall grass, weeds
- Trash, outdoor stockpiling
- Other miscellaneous infractions against the Township Ordinances

Before submitting a complaint, please be aware of the following items:

- It is always a good idea to talk with your neighbor first when there is a problem. Most people prefer to have an opportunity to address an issue informally before receiving an official violation notice from the Township.
- The Township believes the best approach to enforcing an ordinance is through voluntary compliance. We prefer to work with residents to resolve violations before enforcement actions are necessary.
- The Township must follow a specific, often lengthy procedure, in order to resolve a complaint.
- The Township shall only respond to a complaint if the required information is provided in writing. **The Township will not respond to an anonymous complaint.** Information about the identity of a person complaining cannot be released, as this information is exempt from the Right to Know Law 65 P.S. §67.708(B)(17). In the event that a case goes to court, a person may be asked and/or summoned by official subpoena to provide testimony on the complaint.



Highway Department

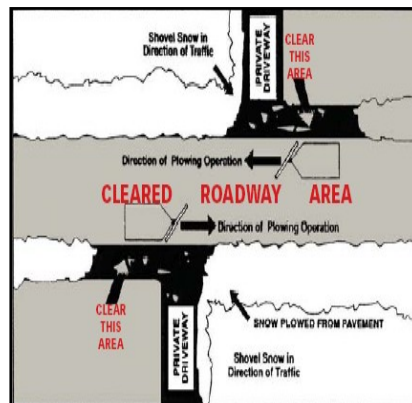
Winter Weather News

With winter soon approaching, the Highway and Police Departments ask that all residents keep these Township tips in mind during inclement weather.

- Avoid parking along Township roads when snow storms are anticipated. If a road is designated a Snow Emergency Route, vehicles must be removed from the roadway when there is three or more inches of snow expected.
- When a snow emergency is declared, Lower Windsor Township utilizes the major local television stations and newspapers for resident notification.
- You can also find updated information on our Facebook page and website. As we receive information from

the National Weather Service, we will post it on Facebook. We also post up-to-date weather information from county emergency management and PennDOT.

- When clearing your driveway, shovel the snow on the lower side of the driveway so that the plow doesn't push it back into the area you have already shoveled.



COUPON

CHRISTMAS MAGIC
 "A FESTIVAL OF LIGHTS"
 Lower Windsor Township
 weeks at
 Rocky Ridge County Park

**BUY ONE, GET ONE
 FREE ADMISSION**

VALID DATES: Nov. 27 thru Dec. 10
 and Dec. 26 thru Dec. 31, 2015

For more information visit
www.yorkcountyparks.org

Maximum two free regular
 admissions

Coupon valid only for the
 2015 program

ONE TIME USE ONLY

Pennsylvania Facts & History

What Do You Know About Pennsylvania?

State Motto - Virtue, Liberty, and Independence.

The Commonwealth - Pennsylvania is officially a Commonwealth, a word which comes from Old English and means the "common weal" or well-being of the public. In Pennsylvania, all legal processes are carried out in the name of the Commonwealth, although the word does not appear on the State Seal.

State Bird - Ruffed Grouse

State Tree - Hemlock

State Flower - Mountain Laurel

State Animal - Whitetail Deer

State Dog - Great Dane

State Fish - Brook Trout

Other Facts

- Pennsylvania is the second U.S. State.
- Pennsylvania is often called the snack food capital of the world.
- The population of PA is 12,009,000.

- Pennsylvania has three port cities, and was the only original colony not bordered by the Atlantic Ocean.
- Pennsylvania is the 33rd largest state in the US and is the 6th most populous.
- People who want to enjoy the first public zoo ever established in US may need to go to the Philadelphia Zoo. It was founded by Benjamin Franklin in 1859.
- In 1940 the famous York Peppermint Pattie was created in

- the city of York, Pennsylvania.
- There are 45,000 miles of rivers & streams and 50 natural lakes & 2,500 man-made lakes.

For more information about PA, go to www.visitpa.com. Better yet, plan a summer trip or winter getaway to an area



you've never visited.

Save the Date!

**PLEASE JOIN
LOWER WINDSOR & HELLAM TOWNSHIPS & WRIGHTSVILLE BOROUGH
AT THE
2015 STORMWATER FAIR
SEPTEMBER 15, 2015 5:00 - 7:00 PM**

Lower Windsor Township, Hellam Township, and Wrightsville Borough will be hosting a multi-municipal educational stormwater "fair" for residents. Vendor displays and presentations will be available so that residents can discuss stormwater concerns and learn how stormwater and the new EPA regulations effect our communities. Sign up for door prizes!

This special event will be held at the Hellam Township Public Works Building located at 45 Walnut Springs Road on **September 15, 2015 from 5:00 to 7:00 pm. All residents are welcome to attend!**

LOWER WINDSOR TOWNSHIP FALL 2015 **CLEAN-UP COUPON**

TO: Lower Windsor Township Residents (**proof of residency required**)

GOOD FOR: One pickup truck load under 17,000 lbs. Anything over this weight limit must have a sticker from DEP. Contact DEP with any questions at (717) 783-9258.

UNACCEPTABLE ITEMS: Engines, paints, lawn mowers, tires, white appliances, electronics, batteries, yard waste, chemicals, pressurized gas containers, liquid waste, and electrical components. For further information contact Modern Landfill at (717) 246-2686.

DATES: Week of **October 19th-24th** **TIMES:** Mon - Fri, 7 am - 3:30 pm and Sat, 7 am - 9:30 am.

ADDITIONAL COUPONS: Available at the Township office (limit of 2 per household).

**** Please note time changes****



Chesapeake Bay Nutrient Reduction

Information courtesy of "Special Report on the Importance of Meeting Pennsylvania's Chesapeake Bay Nutrient Reduction Target"

What Is This About?

The Commonwealth of Pennsylvania has economic and environmental incentives to step up its efforts to comply with the U.S. Environmental Protection Agency (EPA) requirements to reduce nutrient and sediment pollution in the Chesapeake Bay watershed, which extends throughout much of the central and eastern parts of Pennsylvania.

A 2010 **federal mandate** requires the Commonwealth, by 2025, to reduce an assigned share of the nitrogen, phosphorus, and sediment affecting the unhealthy Bay. To achieve the mandated pollution reduction levels, Pennsylvania memorialized its pollution reduction strategies in a Watershed Implementation Plan (WIP).

In order to ensure compliance with the required reductions, the Commonwealth must accelerate its work to reduce the amount of nitrogen and sediment released into the Chesapeake Bay watershed by 2017. Numerous studies have shown that the principal sources of nitrogen pollution are from the agricultural sector, municipal stormwater runoff, and sewage treatment plants. Currently the Commonwealth appears to be on target for phosphorus reduction; however, nitrogen and sediment reduction is not on target to hit the 2017 goals.

The Clock is Ticking

The clock has started ticking for Pennsylvania to put into place the practices that will reduce the amount of sediment, nitrogen, and phosphorus required under the total maximum daily load (TMDL). Given the level of effort in place today, the Commonwealth will be unable to meet these 2017 milestones, thereby forcing the EPA to adopt backstop measures.

If the Commonwealth defaults on the EPA mandates and fails to meet nutrient reduction targets, the EPA can then require the Commonwealth to make improvements that could be extremely costly, specifically related to stormwater management, which we have already seen in municipalities such as Lower Windsor Township. In fact, the EPA noted that Pennsylvania's current program depends on 75% of its reductions

coming from the agricultural sector. The EPA has also threatened to require additional reductions from the wastewater sector, which has not achieved its milestones, as compared to the stormwater management sector. This option is rampant with short and long term costs affecting the health, safety, and welfare of the Commonwealth.

Pennsylvania's WIP calls for the implementation of an agricultural compliance strategy. The regulations include agricultural management programs as well as erosion and sediment control plans. The PA Department of Environmental Protection (DEP) is required to monitor and update the reduction strategy on an annual basis. The EPA has noted that the DEP needs to improve reporting on agricultural compliance and is now required to 1) provide details on types of non-compliance actions and how they are being resolved; 2) ensure that farms are implementing manure-management plans, and sediment erosion or conservation plans pursuant to PA regulations and; 3) improve its tracking, verification, and reporting of the agricultural sectors management best practices.

Ag Best Management Practices

A joint program between the Department of Agriculture and the State Conservation Commission has been established to assist in the delivery of cost effective agricultural best management practices such as cover crops, no-till, manure management, the legacy sediment restoration program,

and riparian buffers. Pennsylvania should evaluate and provide resources for the most effective of these programs using adaptive management approaches as intended by the milestone process. More consistent state funding and advocating for federal resources through the farm bill and other programs are needed to revitalize these programs that are already designed to deliver on-the-ground farm improvements.

What Can You Do?

York County Conservation District

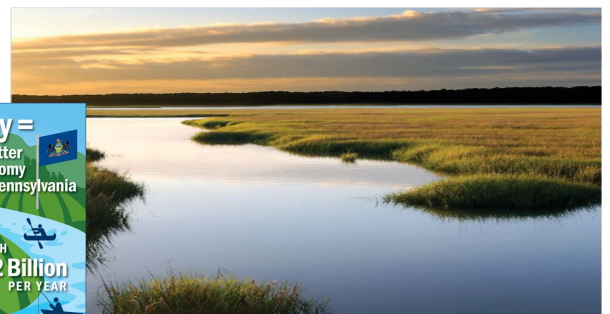
Farmers, particularly in rural communities such as Lower Windsor, can contact the York County Conservation



District for assistance with topics and issues such as Nutrient Management Programs, Agricultural Outreach, Biosolids, Manure Management, No-Till and Cover Crops Articles, and Best Management Practices. For additional information regarding these topics, go to <http://www.yorkccd.org>.

Penn State Extension Office

Another local resource available to the farming community is the Penn State Extension York Office. Not only does this office offer a plethora of information on farming, but also Plants and Pests, Animals, Natural Resources, Community and Business, Food and Health, Youth and Family, and 4H. Classes, events, and information are always offered on their website at <http://extension.psu.edu>.



"Given that both the Susquehanna and Potomac rivers feed into the Chesapeake Bay, Pennsylvania plays a significant role in the regional ecosystem of the Chesapeake Bay Watershed."

Radon Test Kit

Radon is a naturally occurring, odorless, invisible radioactive gas that the Environmental Protection Agency (EPA) estimates may cause about 21,000 lung cancer deaths per year nationally. This is an issue that the PA Department of Environmental Protection (DEP) feels should be taken very seriously, particularly in areas such as Lower Windsor Township.

Pennsylvania in general has some of the highest radon values in the country, and this particular area has radon values above the average for the Commonwealth. Any building in contact with the ground can have a radon problem. Testing is the only way to know if you and your family are at risk from radon exposure. Below is a coupon for a **free radon test kit**. If you would

like to receive the kit, please fill out the required information on the coupon and return it to the American Lung Association. All instructions and return postage are included, as is analysis by the laboratory and reporting results to you. If you have any questions regarding placement of the test kit or your test results, please contact the DEP Radon Division at 1-800-237-2366 or 717-783-3594.



**LOWER WINDSOR TOWNSHIP COUPON
FREE RADON TEST KIT**

For your free Radon test kit fill out the following information, and mail this coupon (please print legibly).

NAME: _____

ADDRESS: _____

CITY/STATE/ZIP: _____

DAYTIME PHONE: _____

Return Coupon to:
Radon Test Kit
American Lung Assoc in PA
3001 Gettysburg Road
Camp Hill, PA 17011-7206

COUPON EXPIRES OCTOBER 15, 2015

Bits & Pieces

TIME TO FALL BACK

Daylight saving time ends on Sunday, November 1. Clocks should be set back one hour. It's a good time to change the batteries in your smoke detectors, too!

TAKE CARE OF STORM DRAINS

Reminder - don't sweep or dump leaves, grass clippings, litter, motor oil, pet waste, or anything else into the street, or storm drain. Remember....

ONLY rain goes down the drain!

NOTHING TO DO ON A TUESDAY NIGHT?

The Susquehanna Senior Center hosts **'Pick and Parlor'** every Tuesday from 6-10 pm in the Township's lower level. Call Trena at 244-0340 for more info.

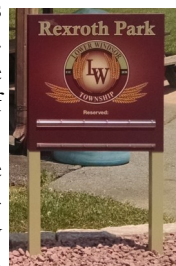
HISTORICAL SOCIETY

The Lower Windsor Area Historical Society (LWAHS) always provides interesting topics of discussion and presentations throughout the year. Presentation information is always provided in the lobby at the Township building or you can visit their website at www.lowerwindsor-area.org.

REXROTH PARK

Something new that was added to Rexroth Park this year is pavilion rental signs. The new signs designate the date and name of the pavilion renter.

Remember that anyone wishing to rent the pavilions can do so by contacting the Township office at (717) 244-6813.



CONGRATULATIONS!

Thank you to the following Township employees for their 15+ years of service:

- Jeff Diehl - 25 years
- Kim Miller - 24 years
- Linda Zimmerman - 20 years
- Chief Tim Caldwell - 17 years
- Corporal Jim Thomas - 17 years
- Officer Chris Kortright - 16 years

FALL BRUSH DROP-OFF

We accept brush, limbs, any wood that is unpainted, untreated, and free of metal. We cannot accept grass clippings or leaves.

SOCIAL HALL

Don't forget that the social hall is available to rent for your holiday events and family functions. Call us for information!

Did You Know? The United States consumes 25% of the world's energy.

Yorkana Fire Company Events

EVENT	DATE	TIME	OTHER INFO
Bluegrass Concerts	Sept 19, Oct 24 Nov 24, Dec 5	6:00 pm	\$12/ticket
50/50 Dinner	October 15	5:00 pm	Must be 21 to attend
Halloween Party	October 25	4:00 pm	Free in costume, \$0.50 no costume
Grocery Bingo	November 22	2:00 pm	Doors open at 12:30 pm

Questions? Contact Jen Hose at (717) 757-2456

Craley Fire Company Events

EVENT	DATE/TIME	EVENT	DATE/TIME
Grocery Auction	August 28	Basket Bingo	Nov 14, 6:30 pm
Sub Sale (Sept)	Deliver in Oct	Shooting Match	Nov 26 @ 1:30 pm (Thanksgiving Day)
Shooting Matches	Oct 2, 9, 16, 23, 30 @ 7:00 pm	Shooting Match	Jan 1 @ 1:30 pm
Poinsettia Sale (Oct)	Deliver in December	Membership Drive	January
Shooting Matches	Nov 6, 13, 20 @ 7:00 pm		

Questions? Call 717-244-9245 or 717-244-5237

Eastern York Area Recreation

Upcoming 2015 Bus Trips

Inner Harbor 9/12

Upcoming 2015 Programs

Let's Get Cooking 9/9-10/14

Ballroom Dancing 9/14-11/23

2nd Annual Biathlon 10/11

Fall Festival 10/24

Breakfast with Santa 12/12

Fall T-Ball

Kicker's Soccer

Basic Cheer

Tiny Tumblers

Weekly Programs

Tuesday's - 30+ Men's Basketball

Friday's - Co-Ed Volleyball

Saturday's - Safe Kids

Wish List

As a Not-For-Profit organization, we have needs which could be met through contributions from the community. Items need to be in fair condition and include the following:

- Milk Jugs
- Children's clothing
- Magazines

- Rope

- Yarn

- Fabric

For more information on making a wish list contribution or for a full description of our programs please visit our website at www.eyarg.org or contact the office Monday thru Friday 9:00 am - 3:00 pm at (717) 246-8155 and ask for Roxanne.



Welcome to
Lower Windsor Township

Tuesday, May 10, 2016



Home Departments Boards & Committees Township Calendar Local Information Links & Resource

Links & Local Resources

Government

[Pennsylvania Website](#)
[York County Government](#)
[Senator Scott Wagner](#)
[Representative Stan Saylor](#)
[Voter Photo ID Information](#)
[Polling Places](#)

Local Schools

[Eastern York School District](#)

Public Notices/Advertisements

[Board of Elections](#)

Local Resources

Accidents / Fire / Crime / Block Watch	Dial 911 Non-Emergencies Dial 717-854-5571 (County Control) 717-244-8055 (Lower Windsor Township Police)
Animal Control Officer	Klugh Animal Control Services Michellée Lee Klugh 717-916-1413
Community Progress Council	http://www.yorkcpc.org 717-845-7176
Deer (fatality or injury)	PA State Game Commission 814-643-1831 www.pgc.state.pa.us
District Magistrate (Local)	John H. Fishel 717-244-4002 http://www.districtcourt19301.org/
Earned Income Tax	York Area Earned Income Tax 717-845-1584 www.yatb.com
Eastern York Area Recreation Commission	717-246-8155 www.eyarc.org
Eastern York County Emergency Management Agency	Phil Smith
Environmental Issues	PA Department of Environmental Protection (DEP) Southcentral Regional Office 717-705-4700 www.dep.state.pa.us
Fire Companies - Township	Craley Community Fire Co. 717-244-1999 East Prospect Fire Co. 717-252-1273 Yorkana Fire Co. 717-757-2456
Kaltreider-Benfer Library	244-2032 www.Kaltreider-Benfer.org
Kreutz Creek Valley Library	252-4080
Landfill	Modern Landfill / Republic Services Inc. 717-246-2686
PA One Call	PA One Call 1-800-242-1776 www.PA1CALL.org
Post Offices	Craley, 717-244-6815 East Prospect, 717-252-3814 East York, 717-751-4618 Red Lion, 717-244-2525 Windsor, 717-244-7411 Wrightsville, 717-252-3411
Solid Waste	York County Solid Waste Authority 717-845-1066 www.ycswa.com
PA State Fish & Boat Commission	

	717-705-7800 www.fish.state.pa.us
PA State Game Commission	814-643-1831 www.pgc.state.pa.us
State Road Repairs	Penn DOT 800-349-7623 717-848-6230 www.dot.state.pa.us
Stormwater	Watershed Alliance of York www.watershedsyork.org York County Conservation District www.yorkccd.org Pennsylvania Department of Environmental Protection www.dep.state.pa.us US Environmental Protection Agency www.epa.gov/epahome/educational.htm Water Environment Federation www.wef.org Chesapeake Bay Foundation: website
Susquehanna Senior Center	717-244-0340 www.susquehannaseniorcenter.org
Tax Assessment	York County Assessment Office 717-771-9232 www.york-county.org
Voter Registration Information	York County Voter Registration 717-771-9604 www.york-county.org/voters/election.htm

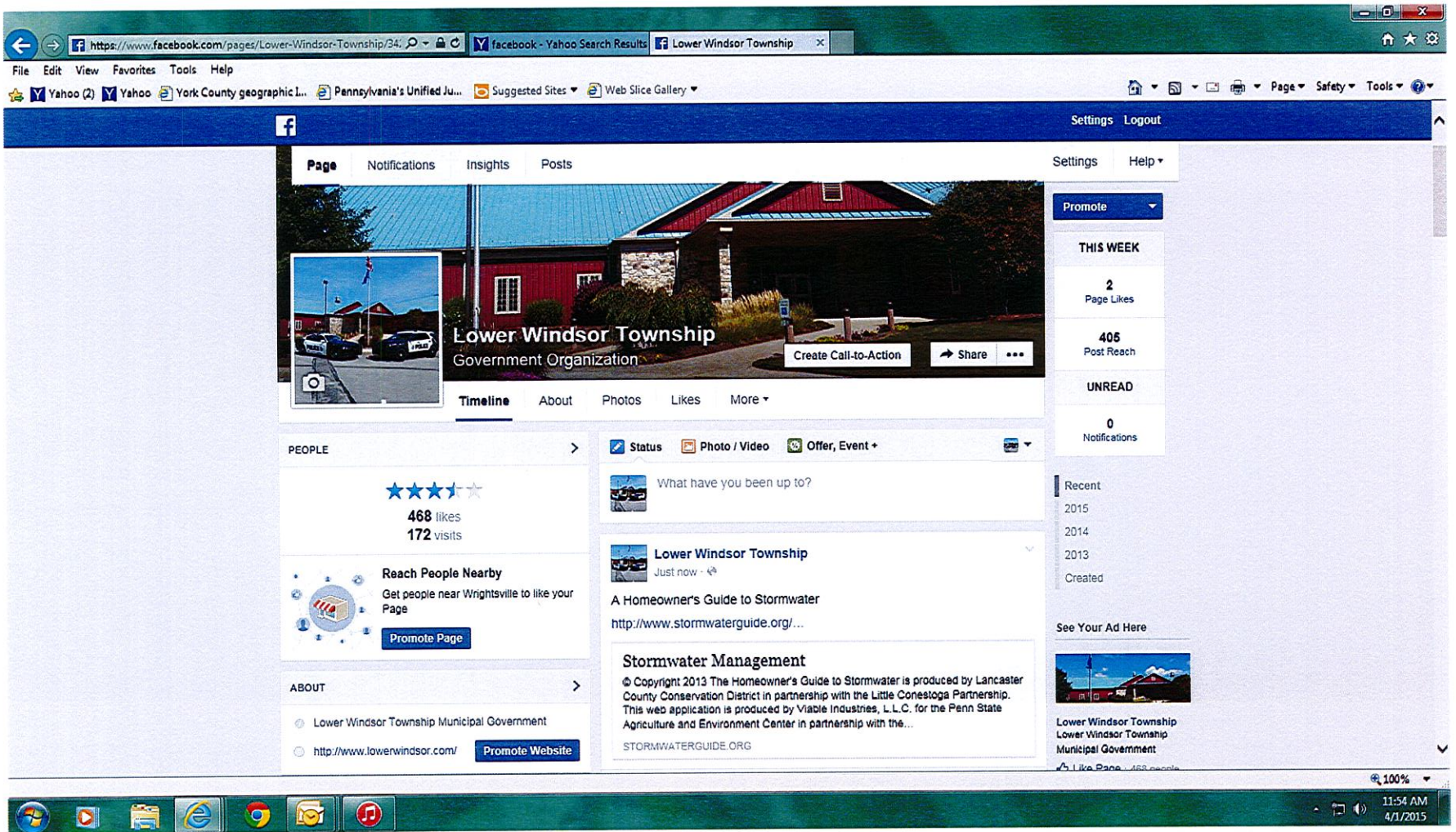
Voter Photo ID Information

Polling Places

District #1 Evangelical & Reformed Church 4845 East Prospect Road	District #2 Eastern High School Administration Office Cool Creek Road (Watch for signs)	District #3 Lower Windsor Township Building 2425 Craley Road (Lower Level - Social Hall)
---	---	--

Browser window showing a Facebook page for Lower Windsor Township. The address bar displays <https://www.facebook.com/pages/Lower-Windsor-Township/34...>. The page header includes navigation tabs: Page, Notifications, Insights, Posts, Settings, and Help. The main content area features a cover photo of a red building and a post from Lower Windsor Township dated "Just now" with the text: "Did you know that all agricultural landowners and operators in Pennsylvania are required by law to have Ag Erosion and Sediment Control plans and/or Manure Management Plans? <http://www.yorkccd.org/agricultural-programs/ag-outreach/>". Below the post is an advertisement for "Ag Outreach |" with the same text and a "Boost Unavailable" button. The left sidebar contains sections for "PEOPLE" (468 likes, 172 visits), "PROMOTE YOUR PAGE" (Reach up to 380,000 people near Wrightsville), "ABOUT" (Lower Windsor Township Municipal Government, <http://www.lowerwindsor.com/>), and "UPCOMING EVENTS" (Board of Supervisors Meeting, Thursday, April 9, 2015 at 6:30pm). The right sidebar shows statistics: 2 Page Likes, 405 Post Reach, UNREAD, 0 Notifications, and a "Recent" list with years 2015, 2014, 2013, and Created. A "See Your Ad Here" section displays an advertisement for Lower Windsor Township Municipal Government with a "Promote Page" button. The Windows taskbar at the bottom shows the Start button, taskbar icons for Internet Explorer, Chrome, and other applications, and the system tray with the date 4/1/2015 and time 12:13 PM.

2015-2016 MS4 - Facebook page screen shot - *Ag outreach*



2015-2016 MS4 – Facebook page – provided a “Homeowner’s Guide to Stormwater”

Browser tabs: <https://www.facebook.com/pages/Lower-Windsor-Township/241...>, [facebook - Yahoo Search Results](#), [Lower Windsor Township](#)

Page: **Lower Windsor Township** (Municipal Government)

Reviews:

- 3.5** 3.5 of 5 stars · 4 reviews
- Judy Laucks-Winters Snyder — **4.5** I would like to put a shout out to our Lower Windsor Township Salt and Plow Truck Drivers for the great job they are doi... See More
March 3, 2015 · 1 Review
- Deborah Shelly Reynolds — **5.0** Mailbox #4 Thanks plow and salt truck drivers!! Why did the township stop reimbursing for mailboxes??? We need a fund for plow training!!
March 4, 2015 · 4 Reviews

Post 1: **Lower Windsor Township** · April 23 at 2:04pm
Authority Announces Location Change for Household Hazardous Waste Collection
 The York County Solid Waste Authority will hold a FREE Household Hazardous Waste Collection Program on Saturday, May 2 from 9:00 AM to 1:00 PM in the parking lot of Woodland View York, LP located at 915 Woodland View Drive in Manchester Township. Residents who bring in elemental mercury and/or a mercury-containing device such as a thermostat, thermometer or elemental mercury will receive a \$5 gift ...
 Continue Reading

Post 2: **Lower Windsor Township** · April 22 at 6:07am
Happy Earth Day 2015

York County Solid Waste Authority
 Apr 16, 2015 Authority Sponsors Earth Day High School Recycled Art Contest To promote recycling and celebrate "Earth Day" (April 22), the York County Solid Waste Authority is sponsoring a Recycled Art Contest for York County High School students.
 YCSWA.COM

62 people reached · Boost Unavailable

Like · Comment · Share

1 Page Like
 415 Post Reach
 UNREAD
 1 Notification

Recent: 2015, 2014, 2013, Created

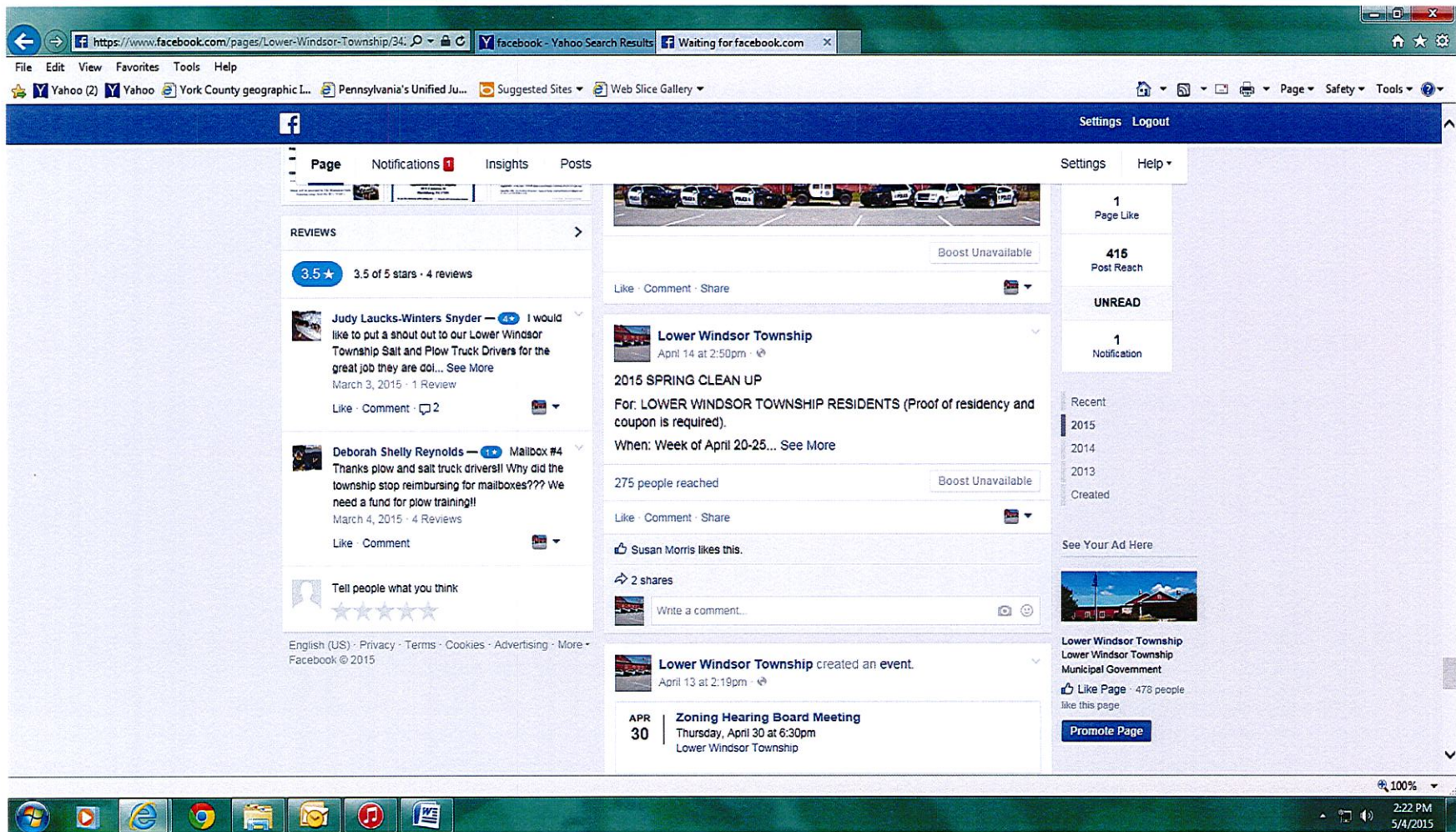
See Your Ad Here

Lower Windsor Township
 Lower Windsor Township
 Municipal Government
 Like Page · 478 people like this page
 Promote Page

English (US) · Privacy · Terms · Cookies · Advertising · More · Facebook © 2015

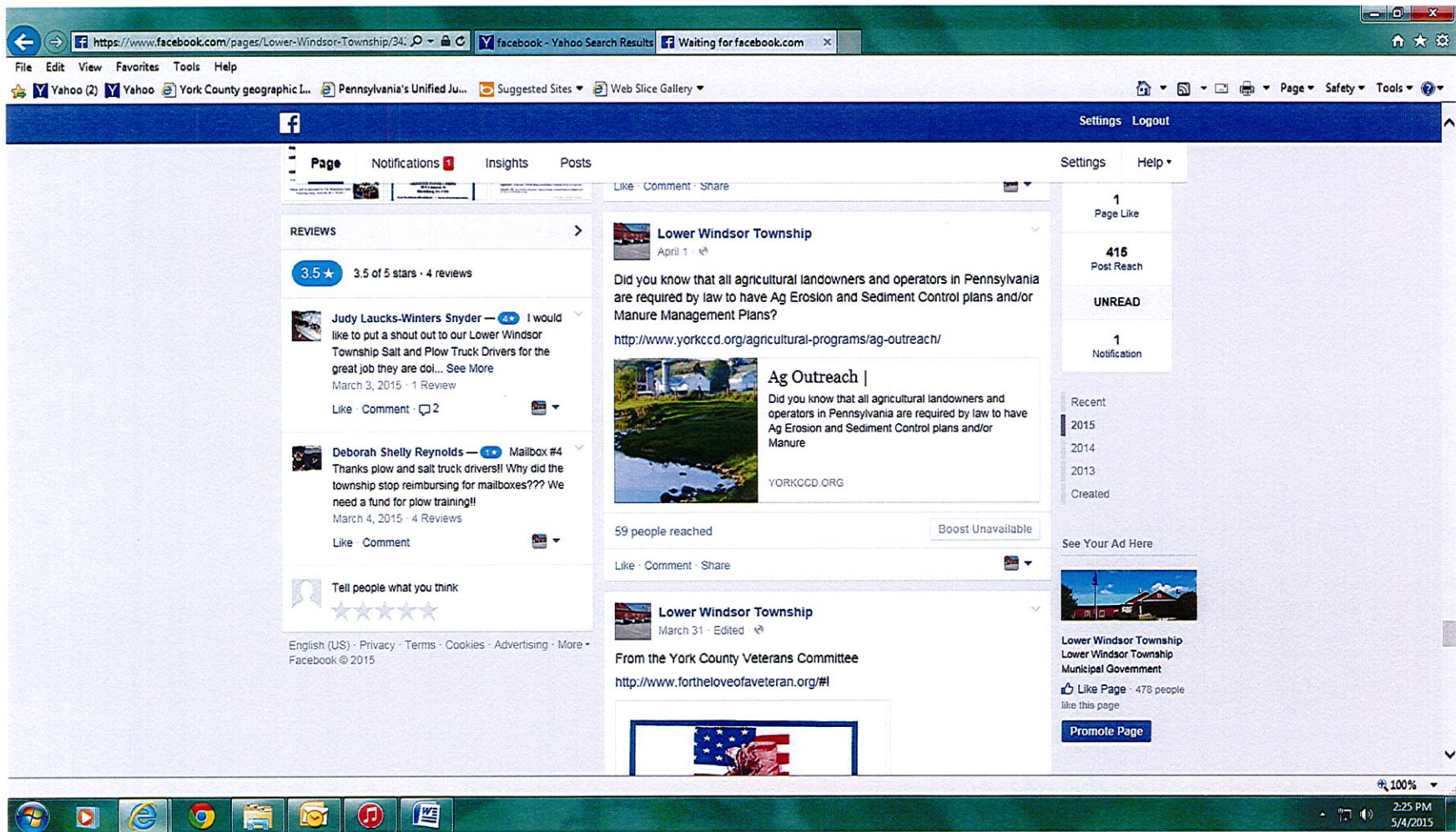
Taskbar: Windows, Internet Explorer, Chrome, Mail, Music, 2:18 PM 5/4/2015

2015-2016



2014-2015 MS4 – Facebook page – providing info to residents for a spring clean up with Republic Services

2015-2016



2014-2015 MS4 – Facebook page – providing info to residents for agricultural landowners

2015-2016

Browser address bar: <https://www.facebook.com/pages/Lower-Windsor-Township/34/>

Page Navigation: Page, Notifications, Insights, Publishing Tools, Settings, Help

REVIEWS

3.7 ★ 3.7 of 5 stars · 7 reviews

Jim Novacek — 3★ This review is hidden.
View review
July 22, 2015 · 1 Review · 4

Terri Heckman Zarfos Mellinger — 4★ We live on Massa Drive and I wanted to take the time to say Thank You for the great job the road crew does with our road... See More
June 30, 2015 · 1 Review · 1

Tell people what you think

Lower Windsor Township
August 5 at 11:19am

Electronic recycling and brush drop-off for Lower Windsor Township Residents is scheduled this Saturday, August 8 from 7:00 a.m. to 9:00 a.m. Proof of residency is required.

Like Comment Share

Wendy Eveler, Freddie Kemfort and Michelle Criswell like this.

2 shares

Write a comment...

148 People Reached **6** Post Clicks

View Insights Boost Unavailable

Promote

THIS WEEK

3,386 Post Reach

525 Post Engagement

Recent

2015

2014

2013

Created

Lower Windsor Township
August 5 at 11:18am

Nothing to do this weekend??

The 40th annual Craley Days Celebration is August 7 and 8 on the grounds of Waters Edge United Methodist Church, Routes 124 and 624.

The two days are filled with non-stop music, including bluegrass, country and gospel; children's rides; games; book sale; food and lots, lots more. ... See More

Footer: English (US) · Privacy · Terms · Cookies · Advertising · Ad Choices · More · Facebook © 2015

Zoom: 100%

Screen Shot of facebook page on 8/18/15 (Electronic Recycling event for LWT)

Browser address bar: <https://www.facebook.com/pages/Lower-Windsor-Township/34...>

Page Navigation: Page | Notifications | Insights | Publishing Tools | Settings | Help

REVIEWS

3.7 ★ 3.7 of 5 stars · 7 reviews

Jim Novacek — This review is hidden. View review
July 22, 2015 · 1 Review

Terri Heckman Zarfes Mellinger — We live on Massa Drive and I wanted to take the time to say Thank You for the great job the road crew does with our road... See More
June 30, 2015 · 1 Review

Tell people what you think

Lower Windsor Township
Yesterday at 11:13am

Veterans on the Susquehanna Event!

On August 29th, Chesapeake Bay Foundation (CBF), Heroes on the Water, and local Trout Unlimited chapters are teaming together to host Veterans on the Susquehanna, a paddling, bass fishing, and fly fishing event, to honor local central Pennsylvania veterans and celebrate the simple freedoms they've provided us such as enjoying and recreating on the mighty Susquehanna River.

Just as enjoying waterways like the Susquehanna River is one of the many privileges protected by our veterans, the river itself can provide a therapeutic, healing experience for those who gave so much.

Veterans, community members, paddlers, fishermen, friends, and family are welcome at Shank's Mare Outfitters in Wrightsville, PA from 3 to 7 p.m., to discover and appreciate the Susquehanna. From 7 to 9 p.m., CBF will host a dinner (for just a \$5 fee) and offer a complimentary open bar with live music for all participants.

<https://cbf.org/heroes>

Events/Other/PA/Veterans on the Susquehanna - Chesapeake Bay Foundation

Simple freedoms like exploring, paddling, and experiencing the great land and waterescapes of our country, were made possible by the sacrifices made by our veterans. Just as enjoying waterways like the mighty Susquehanna River is one of the many privileges protected by our veterans, the river itself...

CBF ORG

Like | Comment | Share

Promote

THIS WEEK

3,386
Post Reach

525
Post Engagement

Recent

2015

2014

2013

Created

Footer: English (US) · Privacy · Terms · Cookies · Advertising · Ad Choices · More · Facebook © 2015

Screen Shot of facebook page on 8/18/15 (Veterans on the Susquehanna Event with CBF)

Browser address bar: <https://www.facebook.com/Lower-Windsor-Township-34247943/>

Facebook Page Header: Settings Logout

Page Navigation: Page Notifications (11) Insights Publishing Tools Settings Help

JIM NOVACEK — **CS** THIS REVIEW IS MODERATED.
View review
July 22, 2015 · 1 Review ·

Like · Comment · 1 4

Terri Heckman Zarfes Mellinger — **4*** We live on Massa Drive and I wanted to take the time to say Thank You for the great job the road crew does with our road... See More
June 30, 2015 · 1 Review ·

Like · Comment · 1

Tell people what you think

★ ★ ★ ★ ★

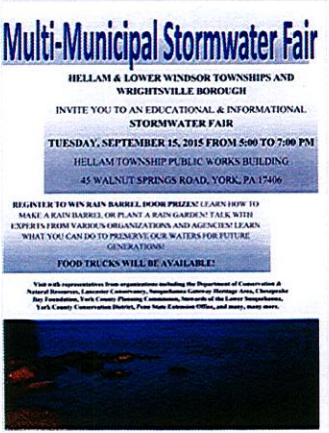
PEOPLE ALSO LIKE

- York County, Pennsylvania**
Government Organization
- Spring Garden Township Police Depart...**
Government Organization
- City of York Human Relations Commis...**
Government Organization

See more Government Organizations in Wrightsville, Pennsylvania

Lower Windsor Township
September 8 at 9:52am · Edited

Stop by to see us at the Stormwater Fair at Hellam Township Public Works Building, Tuesday, September 15 from 5-7 pm.



Multi-Municipal Stormwater Fair
HELLAM & LOWER WINDSOR TOWNSHIPS AND WRIGHTSVILLE BOROUGH
INVITE YOU TO AN EDUCATIONAL & INFORMATIONAL STORMWATER FAIR
TUESDAY, SEPTEMBER 15, 2015 FROM 5:00 TO 7:00 PM
HELLAM TOWNSHIP PUBLIC WORKS BUILDING
45 WALNUT SPRINGS ROAD, YORK, PA 17406

REGISTER TO WIN RAIN BARREL, HOOD FREEZER LEARN HOW TO MAKE A RAIN BARREL, OR PLANT A RAIN GARDEN! TALK WITH EXPERTS FROM VARIOUS ORGANIZATIONS AND AGENCIES! LEARN WHAT YOU CAN DO TO PREVENT OUR WATERS FOR FUTURE GENERATIONS!
FOOD TRUCKS WILL BE AVAILABLE!

Visit with representatives from organizations including the Department of Conservation & Natural Resources, Lancaster County, Pennsylvania Cabinet Planning Area, Chesapeake Bay Foundation, York County Planning Commission, Township of the Lower Susquehanna, York County Conservation Districts, Penn State Extension Office, and many, many more.

Like Comment Share

expertseptic.com likes this.

Promote

THIS WEEK

551
Post Reach

74
Post Engagement

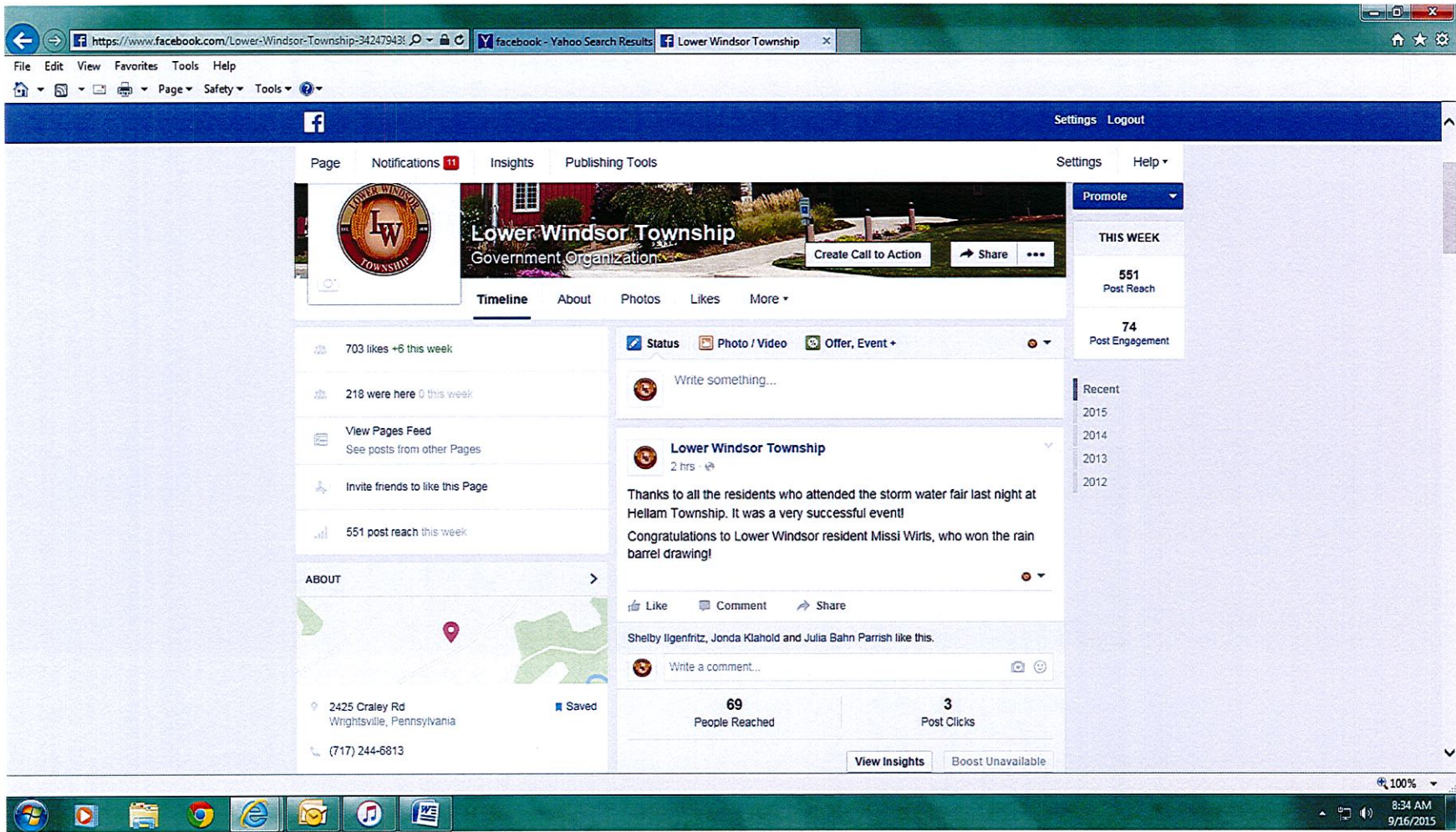
Recent

- 2015
- 2014
- 2013
- 2012

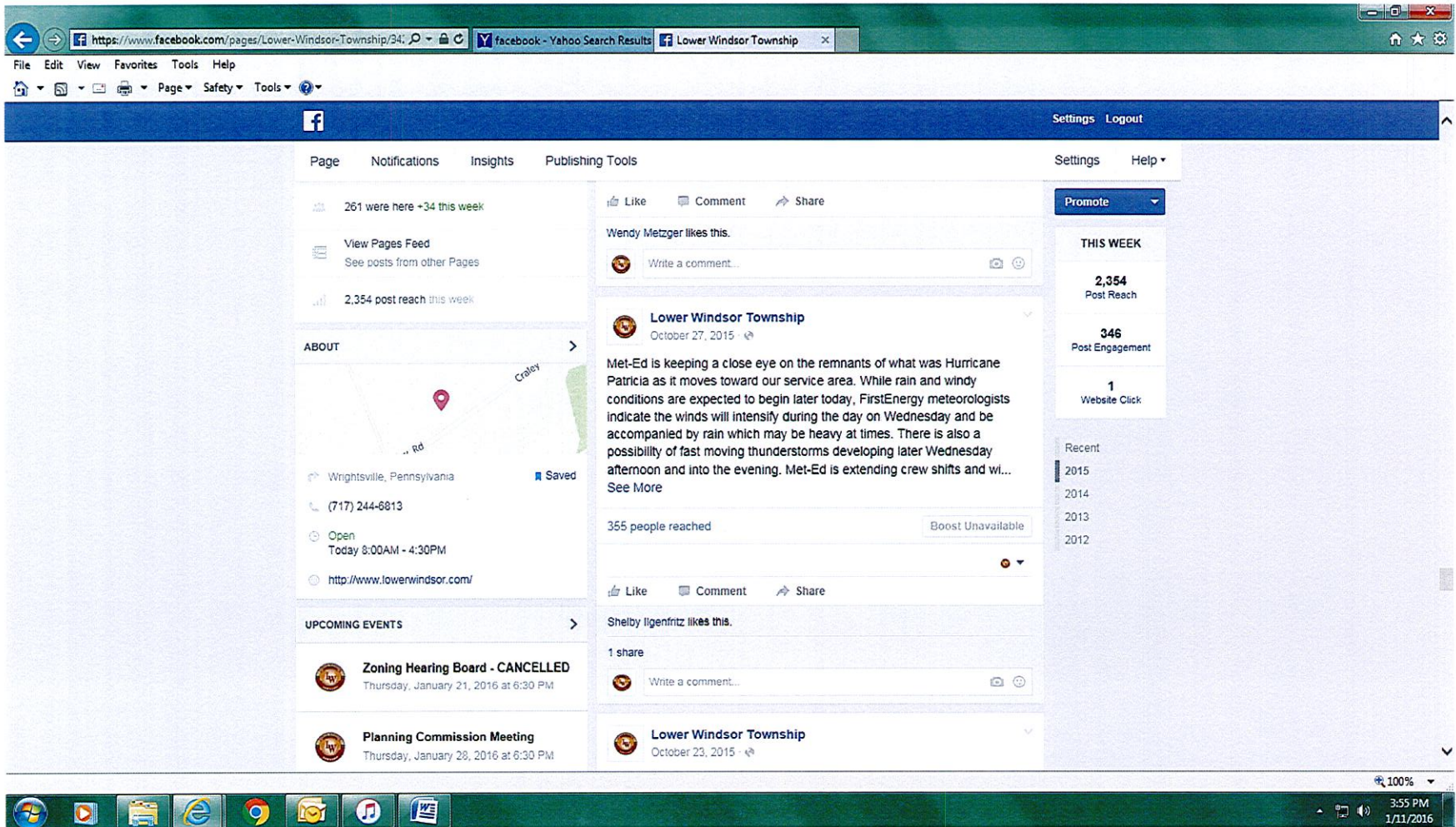
Browser address bar: <https://www.facebook.com/342479439171480/photos/a.344599978959426.83459.342479439171480/1039875886098495/?type=1>

Windows Taskbar: 8:33 AM 9/16/2015

Facebook screenshot – Multi-municipal stormwater event on 9/15/15



Facebook screenshot – Multi-municipal stormwater event on 9/15/15




Facebook Page screen shot – Met Ed Notice of heavy rains. 10.27.15

Browser address bar: <http://www.facebook.com/pages/Lower-Windsor-Township/34>

Facebook Page: Lower Windsor Township

Post Date: December 28, 2015 at 8:39am

Text: Illegal dumping occurred at the highway building on December 24, 2015. If you recognize this vehicle or person, please contact the Lower Windsor Township Police Dept. at 244-8055. Thank you.



8,658 people reached

Boost Unavailable

Like Comment Share

Paula Joan Sullivan, Lu Ann Gembe, Shelby Ilgenfritz and 5 others like this.

53 shares

View 10 more comments

Shanda Shelly Morton Most electronics end up on Meisenhelder Rd in the creek, I drive that road everyday, it's sad

Lorrie Edaell Probably the person dropping it off didn't know they couldn't take

Statistics (THIS WEEK):

- 2,354 Post Reach
- 346 Post Engagement
- 1 Website Click

Recent years: 2015, 2014, 2013, 2012

Windows Taskbar: 3:52 PM, 1/11/2016

Facebook Page screen shot – Dumping. 12.28.16

Browser: https://www.facebook.com/pages/Lower-Windsor-Township/34... facebook - Yahoo Search Results Lower Windsor Township

File Edit View Favorites Tools Help


Page Notifications Insights Publishing Tools Settings Logout

261 were here -34 this week

View Pages Feed
See posts from other Pages

2,354 post reach this week

ABOUT



Wrightsville, Pennsylvania

(717) 244-6813

Open Today 8:00AM - 4:30PM

http://www.lowerwindsor.com/

UPCOMING EVENTS

Zoning Hearing Board - CANCELLED
Thursday, January 21, 2016 at 6:30 PM

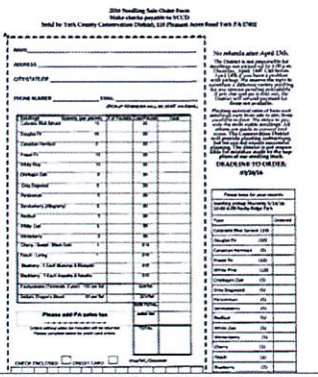
Planning Commission Meeting
Thursday, January 28, 2016 at 6:30 PM

Lower Windsor Township
11 mins ·

TREE SEEDLING SALE AT YORK COUNTY CONSERVATION

Did you know that the presence of trees has been proven to improve the quality of our lives? Trees clean our air and beautify our communities. They reduce soil erosion and enhance the water quality of our local waterways. Trees can reduce heating and cooling costs and improve human health.

For over 40 years, the York County Conservation District has hosted an annual tree seedling sale. Each year, the Conservation District sel...
See More



Promote

THIS WEEK

2,354
Post Reach

346
Post Engagement

1
Website Click

Recent

- 2015
- 2014
- 2013
- 2012

100% 3:50 PM 1/11/2016

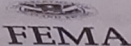
Facebook Page screen shot – Tree Seedling Sale. York County Conservation District. 1.11.16

The screenshot shows a Facebook page for Lower Windsor Township, a Government Organization. The page header includes navigation options like Page, Notifications, Insights, and Publishing Tools. The main content area displays a post from Lower Windsor Township, dated 'Just now', titled '5 Things You Can Do to Clean Up York County's Rivers & Streams'. The post text states: 'Nearly 2,000 miles of creeks, streams, and the Susquehanna River meander through York County's diverse communities. Unfortunately, more than 350 miles of the county's rivers and streams are considered polluted by the Department of Environmental Protection. Many of these polluted waterways feed drinking water supplies and serve as recreation areas where children play, posing a public health risk. Here are 5 ways yo... See More'. Below the text is a logo for 'THE BAY @ SAVE THE BAY' and the text 'CHESAPEAKE BAY'. The left sidebar shows engagement metrics: 913 likes (+2 this week), 292 were here (+1 this week), and 540 post reach this week. The right sidebar shows 'THIS WEEK' statistics: 540 Post Reach, 68 Post Engagement, and 1 Website Click. The bottom of the page shows a Windows taskbar with various application icons and a system tray displaying the time as 9:52 AM on 3/1/2016.

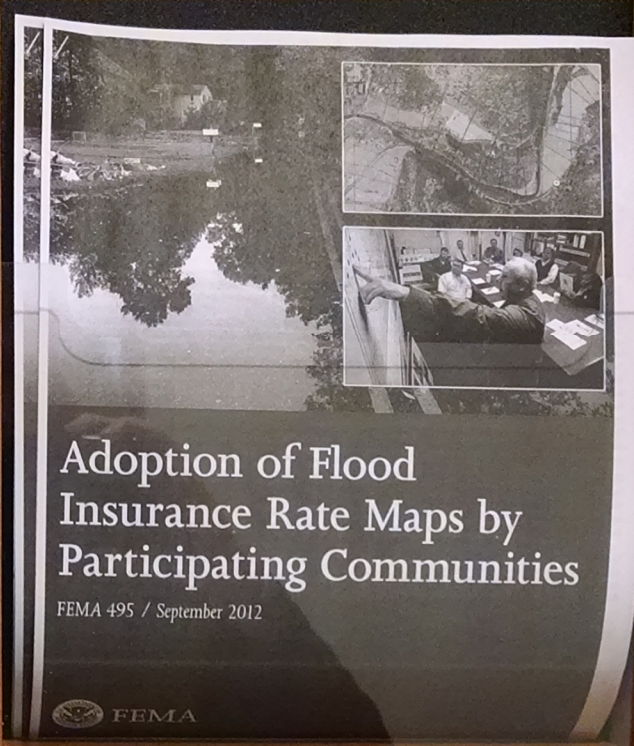
Facebook Page screen shot – 5 Things You Can Do to Clean Up York County’s Rivers & Streams.3.1.16


MS4 STORMWATER
Brochure Listing
March 2015- March 2016


MARCH 2015-MARCH 2016 LOBBY AREA BROCHURE COUNT													
BROCHURE NAME	MONTH												
	4/15/15-5/15/15 COUNT	5/15/15-6/15/15 COUNT	6/15/15-7/15/15 COUNT	7/15/15-8/15/15 COUNT	8/14/15-9/15/15 COUNT	9/15/15-10/15/15 COUNT	10/15/15-11/16/15 COUNT	11/16/15-12/15/15 COUNT	12/15/15-1/15/16 COUNT	1/15/16-2/15/16 COUNT	2/15/16-3/15/16 COUNT	3/15/16-3/31/16 COUNT	
Drill A New Well	4/6 +6 on 4/21	6/6	6/6	6/6	6/6	6/6	6/6	6/4 -2 on 12/15	4/4	4/4	4/4	4/4	
Headwaters Environmental Legacy Program	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	
Why We Map Flood Risks	8/8	8/5 -3 on 6/15	5/5	5/5	5/4 -1 on 9/18	4/4	4/4	4/4	4/4	4/4	4/3 -1 on 3/15	3/3	
After the Storm	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	
When It Rains, It Drains	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	
Be Waterwise-Rain Garden at Home	5/5	5/5	5/5	5/5	5/5	5/5	5/4 -1 on 11/18	4/4	4/4	4/3 -1 on 2/19	3/3	3/3	
What is a Watershed	5/5	5/4 -1 on 6/15	4/4	4/4	4/4	4/4	4/3 -1 on 11/18	3/3	3/3	3/3	3/2 -1 on 1/20 +6 on 1/20	8/8	
Healing York County's Waters	14/14	14/14	14/14	14/14	14/14	14/14	14/12 -2 on 11/18	12/12	12/12	12/12	12/11 -1 on 3/15	11/11	
Why You Need Flood Insurance	NEW BROCHURES ADDED TO THE LIST ON 11/2/15							9/9	9/9	9/9	9/9	9/9	9/9
Adoption of Flood Insurance Rate Maps	NEW BROCHURES ADDED TO THE LIST ON 11/2/15							4/4	4/4	4/4	4/4	4/4	4/4
Flood Insurance Claims Handbook	NEW BROCHURES ADDED TO THE LIST ON 11/2/15							5/5	5/5	5/5	5/5	5/5	5/5
FEMA, Elevation Certificate	NEW BROCHURES ADDED TO THE LIST ON 11/2/15							4/4	4/4	4/4	4/4	4/4	4/4
Know Your Flood Risk	NEW BROCHURES ADDED TO THE LIST ON 11/2/15							5/5	5/4 -1 on 12/15	4/4	4/4	4/4	4/4
MARCH 2015-MARCH 2016 OFFICE AREA BROCHURE COUNT													
When It Rains, It Drains	18/18	18/18	18/18	18/18	18/18	18/17 -1 on 10/16	17/16 -1 on 11/18	16/16	16/16	16/16	16/16	16/16	
Headwaters Environmental Legacy Program	6/6	6/5 -1 on 6/15	5/5	5/4 -1 on 8/13	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	
Private Water System Management	13/12 -1 on 4/21	12/10 -2 on 6/15	10/9 -1 on 7/16	9/9	9/9	9/8 -1 on 10/16	8/7 -1 on 11/18	7/6 -1 on 12/15	6/6	6/6	6/6	6/6	
BMP's for Private Water Systems	13/11 -2 on 4/21	11/10 -1 on 6/15	10/9 -1 on 7/16	9/9	9/9	9/8 -1 on 10/16	8/7 -1 on 11/18	7/6 -1 on 12/15	6/6	6/6	6/6	6/6	
What is a Watershed	7/7	7/6 -1 on 6/15	6/6	6/5 -1 on 8/13	5/4 -1 on 9/18	4/4	4/3 -1 on 11/18	3/3	3/2 -1 on 1/20 +6 on 1/20	8/8	8/8	8/8	
Be Waterwise-Rain Garden at Home	6/6	6/5 -1 on 6/15	5/5	5/5	5/5	5/5	5/5	5/5	5/3 -2 on 1/20 +6 on 1/20	9/9	9/9	9/9	
Why We Map Flood Risks	6/5 -1 on 4/21	5/2 -3 on 6/15 +4 on 6/15	6/6	6/6	6/6	6/6	6/5 -1 on 11/18	5/5	5/4 -1 on 1/20	4/4	4/4	4/4	
After the Storm	5/5	5/4 -1 on 6/15	4/4	4/4	4/4	4/4	4/3 -1 on 11/18	3/3	3/3 +6 on 1/20	9/9	9/9	9/9	
Homeowners Guide to Elevation Certificates Fact Sheet	12/12	12/11 -1 on 6/15	11/11	11/11	11/11	11/11	11/10 -1 on 11/18	10/10	10/9 -1 on 1/20	9/9	9/9	9/9	
Make Your Home the Solution to Stormwater Pollution	12/12	12/11 -1 on 6/15	11/11	11/11	11/10 -1 on 9/18	10/10	10/9 -1 on 11/18	9/9	9/9	9/9	9/9	9/9	
Flood Hazard Mapping Fact Sheet	6/3 -3 on 4/21	3/1 -2 on 6/15 +5 on 6/15	6/6	6/6	6/5 -1 on 9/18	5/5	5/4 -1 on 11/18	4/3 -1 on 12/15	3/2 -1 on 1/20 +6 on 1/20	8/8	8/8	8/8	


FEMA
 NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE
 AND
 INSTRUCTIONS



**Adoption of Flood
 Insurance Rate Maps by
 Participating Communities**
 FEMA 495 / September 2012



National Flood Insurance Program
**Flood Insurance
 Claims Handbook**
 FEMA F-687


Know Your Flood Risk
 Just a few inches of water from a flood can cause tens of thousands of dollars in damage. Knowing your flood risks can help prepare you to reduce your flood damage.
 Visiting FEMA's online Map Service Center (MSC) resource at <http://www.msc.fema.gov> can help you locate your property on the current Flood Insurance Rate Map. If your property is in or near a Special Flood Hazard Zone, talk to your local floodplain manager or insurance agent to understand the necessary steps that need to be taken to protect your property.
 Talk to your local floodplain manager about other important methods of floodplain management such as regulations, ordinances, obtaining necessary building permits, and mitigating against certain hazards that are not available on flood maps such as storm water run off and ponding.
Know How to Reduce Your Flood Risk
 Reducing your flood risk can involve changes to your home and property. Once you know the flood hazard, taking the following steps can

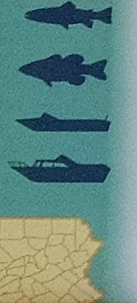
**WHY YOU
 NEED FLOOD
 INSURANCE**



PA's Fishing & Boating Opportunities



FISHING & BOATING MAP



The Hidden Hazards of Backyard Burning




WHAT YOU NEED TO KNOW TO PROTECT YOUR HEALTH AND THE ENVIRONMENT

Burning household waste in burn barrels or open piles might be common in your community. But the smoke from these fires contains dangerous chemicals that affect your health and pollute our environment. Stopping backyard burning will help us all breathe easier.


State and Local Governments Are Key to **Reducing Backyard Burning**

Backyard burning of garbage is an outdated practice that should be discontinued. Burning household trash and garbage in burn barrels, open piles, or in indoor or outdoor stoves or furnaces is still practiced in many rural areas. This practice is a major source of dioxin and other toxic emissions, damaging both our health and our environment.

FACILITY RENTALS BROCHURE



LOWER WINDSOR TOWNSHIP



2425 Craley Road

Headwaters Environmental Legacy Program (HELP-Streams)



Small Stream Stewardship

York County Conservation District

(717) 840-7430
www.yorkcccd.org

Drilling a New Well

Penn State Extension

A guide for private well owners on proper well location and construction.

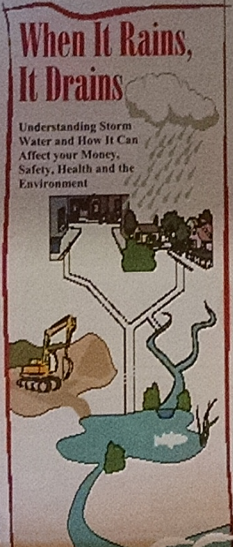
Selecting Your Well Location

If you are building a new home or drilling a new well, determining the proper location for the well is an important decision. It can protect the health of you and your family.

- Secondary well cap and good seal included
- Well development to maximum yield
- Disinfection after drilling and pump installation
- Fertilized cost estimate
- Estimate of well log and pump test results

When It Rains, It Drains

Understanding Storm Water and How It Can Affect your Money, Safety, Health and the Environment




www.fema.gov

Watershed Alliance of York, Inc.

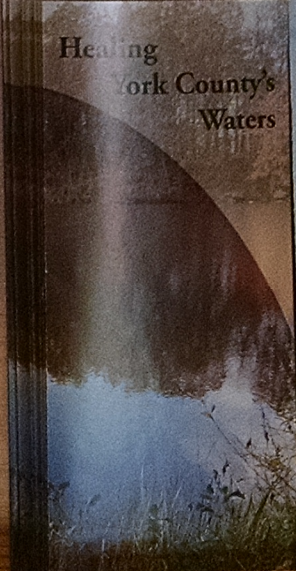
BE WATER WISE—RAIN GARDEN AT HOME

Encouraging watershed planning, restoration and protection, in York County and beyond




www.watershedofyork.org

Healing York County's Waters



What Is A Watershed?

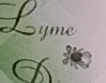
Know Your Watershed



Conservation • Education • Stewardship

Information on

Lyme Disease



State Representative
Stanley E. Saylor
66th Legislative District

SEYMOUR LLOYD SHUCKER


HOME REPAIR AND IMPROVEMENT UPDATE

The Home Improvement Consumer Protection Act



PENNSYLVANIA
ATTORNEY GENERAL
TOM CORBETT

CONTRACTOR REPAIR INFORMATION



Know what's below.
Call before you dig.



811

Installation of Manufactured Homes in PA

An introduction for retailers, installers, code officials and owners of manufactured homes.

Planning for Agriculture


> ready > set > harvest



FEMA

Flood Hazard Mapping Fact Sheet

November 28, 2017
York County, Pennsylvania



FEMA

Fact Sheet

Homeowner's Guide to Elevation Certificates

An Elevation Certificate is an important tool that documents your building's elevation. If you live in a high-risk flood zone, you should provide an Elevation Certificate to your insurance agent to obtain flood insurance and ensure that your premium accurately reflects your risk. Obtaining an Elevation Certificate also can help you make decisions about rebuilding and mitigation after a disaster.

Comparing Your Building's Elevation to a Potential Flood Level

- Your insurance agent will use the Elevation Certificate to document your building's elevation to the Base Flood Elevation (BFE).
- The base flood is a flood with a 1 percent chance of occurring in any given year. The BFE elevation is the water surface elevation of the base flood. The base flood is the base flood in the Special Flood Hazard Area, Floodway, or high-risk zone.
- Flood insurance rates in a high-risk zone in some instances may be higher than in a low-risk zone.

When you receive your Elevation Certificate

- Generally, in high-risk zones, the higher above the BFE a building is located, the lower the insurance premium will be for that property. The Elevation Certificate provides the documentation necessary to make that determination.
- In moderate- to low-risk zones (zones beginning with letters A, B, or X), the higher above the base flood elevation, or an Elevation Certificate may not be required.

How to Get an Elevation Certificate for Your Home

1. Hire a qualified professional to determine your building's elevation. If you are a homeowner, you may hire a professional to determine your building's elevation. If you are a landlord, you may hire a professional to determine your building's elevation.
2. If your information is not in file, you may need to hire a State licensed engineer to assist in obtaining the Elevation Certificate for you.
3. When you receive your Elevation Certificate, please use it to update your insurance agent.

Homeowner's Elevation Certificate (HEC) is a key document for your home.


An Elevation Certificate will help your agent rate your home properly. Your insurance premium will change based on your elevation. In general, the higher above the BFE you build, the lower your premium. Your home might be above the BFE, so your insurance rate might be lower.

An Elevation Certificate can help you save.

Make your home

The SOLUTION TO STORMWATER POLLUTION!

A homeowner's guide to healthy



EPA

After the Storm




When It Rains, It Drains

Understanding Storm Water and How It Can Affect Your Home's Safety, Health and the Environment




Headwaters Environmental Legacy Program

Small Stream Stewardship




What is a Watershed?

Know Your Watershed



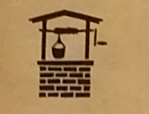
BE WATER WISE - RAIN GARDENS AT HOME

Environmentally sound planning, installation and protection of your garden and beyond



Best Management Practices for Private Water Systems


A Guide to Private Administration of Storm Water Utility



PENNSYLVANIA

Private Water System Management

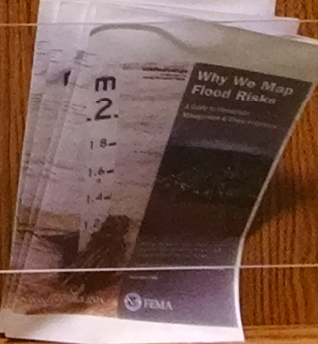
Penn State Recommendations



PENNSYLVANIA

Why We Map Flood Risks

A Guide to Understanding Flood Risk



FEMA



YORK COUNTY
SOLID WASTE AND REFUSE AUTHORITY

2700 Blackbridge Road, York, PA 17406-7901 Phone (717) 845-1066 Fax (717) 843-1544

Contact: Jennifer Cristofolletti
717-845-1066

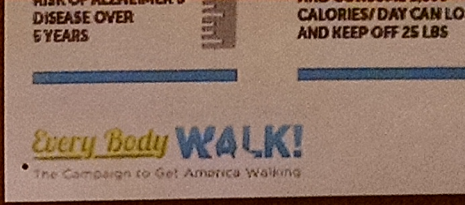
FOR IMMEDIATE RELEASE
December 22, 2015

TURN YOUR CHRISTMAS TREE INTO A REAL GIFT!

The York County Solid Waste Authority is conducting a free Christmas tree recycling program for all York County residents. The program starts now and continues through January 31, 2016. Residents may bring their trees to the Authority's Yard Waste Transfer Facility in Manchester Township seven days a week during daylight hours. In addition to the Authority's collection site, the following businesses are accepting Christmas trees: Spring Valley Mulch in Dover, 292-3476; H & H General Excavating in Spring Grove, 225-4669 and Mighty Oak Mulch in Wrightsville, 244-3099. Please call these locations for hours and directions. **Please note: Trees are no longer accepted at Kain County Park.**

There is no fee to residents for this program. **PLEASE REMOVE: ornaments, tinsel, lights and protective bags from your tree.**

This is the 28th year the Authority has conducted a Christmas tree recycling program. The Authority facilitates responsible solid waste management through an integrated strategy that emphasizes waste reduction, education, recycling and resource recovery. The Authority is the owner of the York County Resource Recovery Center in Manchester Township; and owns and operates a Yard Waste Transfer Facility, a Recyclable Materials Drop-off Center and an Education Center.



YORK COUNTY CONSERVATION DISTRICT SEED

Did you know that the presence of trees has been shown to improve the quality of our lives? Trees clean our air and beautify our communities. They reduce soil erosion and improve the water quality of our local waterways. Trees can reduce heating and cooling costs and improve human health.

For over 40 years, the York County Conservation District has hosted an annual tree seedling sale. Each year, the Conservation District sells over 20,000 seedlings that are planted throughout York County and surrounding areas. The varieties available at the spring 2016 sale include native tree seedlings as well as flowering and bearing trees and shrubs.

Descriptions of the plants offered as well as the cost of each item on the form can be found on the Conservation District website at www.yorkccd.org. Orders will be accepted now through January 24, 2016. To order, please return the completed order form (including a check payable to YCCD or your credit card information) to York County Conservation District, 1000 Acres Road York, PA 17402. Orders will be available for pickup at Rocky Ridge County Park between 10 AM and 4 PM on Thursday, April 14, 2016. Proceeds from the sale are used to fund the Conservation District's education programs including the annual Envirothon county-wide school event.

For additional information or to request that a tree seedling brochure be mailed to you, call the Conservation District at 717-840-7430.

Things You Can Do To Save the Bay



that emphasizes waste reduction, education, recycling and resource recovery. The Authority is the owner of the York County Resource Recovery Center in Manchester Township; and owns and operates a Yard Waste Transfer Facility, a Recyclable Materials Drop-off Center and an Education Center.

10 Things You Can Do To Save the Bay



16 million people live on the land that drains into the Chesapeake Bay, and the actions that we take in our daily lives have a big impact on our environment. You can make a difference in the health of this national treasure. Think about the choices you make in your home, in your yard, and at your table. Consider making changes to help lessen pollution in our waterways. Here are some ideas.

Join the Chesapeake Bay Foundation. Add your voice to those of the 140,000 members who are the Bay's strongest advocates. Your contribution works throughout the watershed to save the Bay, its rivers, and streams. And be sure to sign up for the CBF Action Network to stay informed about issues affecting the protection and restoration of the Bay. Through free e-mail alerts from CBF, you'll be well-versed on vital Bay issues that need your action, and you can contact key decision-makers when it counts.

IN YOUR YARD

Make your lawn Bay-friendly. In your landscaping, use native grasses or other plants that don't require watering or fertilizing. Reduce or eliminate use of chemical herbicides and pesticides. Learn to live with a dandelion or two. Lawn fertilizers and chemicals are a big source of nitrogen and phosphorus pollution and toxic runoff.

Avoid pouring toxic substances down storm drains. Don't dump hazardous materials like solvents, paints, and preservatives. They go directly into streams and waterways to pollute the Bay. Use your county's hazardous waste collection program instead.

Plant a tree. Besides providing oxygen to the atmosphere, trees hold soil in place with their roots, preventing erosion that runs into the Bay. They soak up fertilizers and other chemicals before they seep into waterways. And by shading your home in summer, they even reduce energy costs.

AT HOME

Drive less. Air pollution contributes more than one-third of all the nitrogen entering the Bay, and a large part of that is from vehicle exhaust. Make it a personal goal to combine errands and limit trips to reduce your contribution to auto emissions. And when the time comes to buy a new car or truck, choose the most fuel-efficient and low-emission gasoline, gasoline-electric hybrid, or alternative-fuel model in its class.

Buy local foods. Did you know that most foods you eat travel 1,300 miles before they get to your plate? Buying food that's grown on local farms minimizes transportation-related emissions. It also keeps local farmers in business—which is good for Bay lands and, ultimately, Bay water quality. Try shopping for your produce at farmers' markets, or join a Community Supported Agriculture farm.

Minimize your use of household chemicals. Instead of all-purpose cleaners, use baking soda or borax and hot water for almost any sort of household cleaning, from toilet bowls to greasy pots and pans and laundry. Natural products reduce toxic chemicals in the wastewater.

Conserve water. Take shorter showers. Turn off the water while you're brushing your teeth, washing your hands, or doing dishes in the sink. By reducing your use of water, you help wastewater treatment plants function more effectively by reducing the volume they process.

IN YOUR COMMUNITY

Introduce a friend to the Bay watershed. Many people don't realize that they are part of a watershed and that their actions have an impact on water quality. Share your concerns about the Bay with friends and neighbors, or visit a stream, creek, or park with a child. If people love their environment, they'll be more likely to take care of it in the future.

Become an informed voter. One of the most important individual actions that you can take is to vote for thoughtful and responsible land use and conservation policies in your community and state. An informed electorate can flex its political muscle on behalf of the environment.

WANT TO KNOW MORE?

Visit the Chesapeake Bay Foundation Web site:
cbf.org



CHESAPEAKE BAY FOUNDATION
Saving a National Treasure

Printed on recycled, recyclable paper, 4/06.

Descript
form ca
www.yor
24, 2016
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informati
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For additi
brochure b
at 717-840

Send to: Yo

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CITY/STATE/ZIP _____
PHONE NUMBER _____

Seedlings	Quan
Colorado Blue Spruce	
Douglas Fir	
Canadian Hemlock	
Fraser Fir	
White Pine	
Chinkapin Oak	
Grey Dogwood	

Multi-Municipal Stormwater Fair

**HELLAM & LOWER WINDSOR TOWNSHIPS AND
WRIGHTSVILLE BOROUGH**

**INVITE YOU TO AN EDUCATIONAL & INFORMATIONAL
STORMWATER FAIR**

TUESDAY, SEPTEMBER 15, 2015 FROM 5:00 TO 7:00 PM

HELLAM TOWNSHIP PUBLIC WORKS BUILDING

45 WALNUT SPRINGS ROAD, YORK, PA 17406

**REGISTER TO WIN RAIN BARREL DOOR PRIZES! LEARN HOW TO
MAKE A RAIN BARREL OR PLANT A RAIN GARDEN! TALK WITH
EXPERTS FROM VARIOUS ORGANIZATIONS AND AGENCIES! LEARN
WHAT YOU CAN DO TO PRESERVE OUR WATERS FOR FUTURE
GENERATIONS!**

FOOD TRUCKS WILL BE AVAILABLE!

Visit with representatives from organizations including the Department of Conservation & Natural Resources, Lancaster Conservancy, Susquehanna Gateway Heritage Area, Chesapeake Bay Foundation, York County Planning Commission, Stewards of the Lower Susquehanna, York County Conservation District, Penn State Extension Office, and many, many more.



MCM #2 Appendix

- **MCM #2 Project Plan**
- **BMP 2.1 Attachments**
 - MCM 2
- **BMP 2.3 Attachments**
 - Board of Supervisors Meeting Agenda Feb 11, 2016
 - Board of Supervisors Meeting Minutes Feb 11, 2016
 - MS4 Educational Presentation Feb 11, 2016

MCM #2 Project Plan

- BMP 2.1

Description:

Develop, implement and maintain a written Public Involvement and Participation Program (PIPP)

Measurable Goal:

A new permittee's PIPP shall be developed and implemented during the first year of coverage under this General Permit. All permittees shall re-evaluate the PIPP each permit year and revise as needed. Your PIPP shall include, but not be limited to:

- a. Opportunities for the public to participate in the decision-making processes associated with the development, implementation, and update of programs and activities related to this General Permit.
- b. Methods of routine communication to groups such as watershed associations, environmental advisory committees, and other environmental organizations that operate within proximity to the permittee's regulated small MS4s or their receiving waters.
- c. Making your periodic reports available to the public on your website, at your municipal offices, or by US Mail upon request.

Action Plan:

Review the list of required activities to be included in the PIPP and note the responsible party for developing and tracking the effectiveness of each:

i) Public Input Opportunities:

Township Board of Supervisors Meetings – MS4 is a standing item on the Township Engineer's monthly reports. These reports are reviewed at the Township Supervisors meetings which occur on the second Thursday of every month. MS4 topics are discussed in greater detail as deemed necessary. The target audience group at these meetings is primarily the elected officials; however, residents of the Township also benefit since meetings are open to the public. The Township manager and or Zoning Officer also provide updates to the supervisors and attendees when necessary.

ii) Watershed/Environmental Group Commination:

Watershed Alliance of York (WAY) – The Township has a working relationship with WAY to promote good stewardship of our local waters. WAY is a coalition of stakeholders committed to being innovative leaders educating the public and encouraging watershed-based planning, restoration and protection in York County, Pennsylvania, and beyond. WAY provides watershed educational assistance and sponsors stream and illegal dump site cleanups throughout the year. The Township's MOU with WAY makes the services of WAY available to the Township to aid in meeting the education and participation requirements of the MS4 permit. The Township currently provides a link to WAY's website in the Stormwater Management section of their Website.

iii) Annual Report Publication:

A hard copy is available at the Township office, upon request.

iv) Additional Opportunities for Public Involvement and Participation

- (1) Facebook Page
- (2) Targeted Educational Meetings

- BMP 2.2

Description:

Prior to adoption of any ordinance (municipal permittees) or SOP (non-municipal permittees) required by the permit, provide adequate public notice and opportunities for public review, input

and feedback

Measurable Goal:

Advertise any proposed MS4 Stormwater Management Ordinance or SOP, provide opportunities for public comment, evaluate any public input and feedback, and document the comments received and the municipality's response

Action Plan:

The Township shall follow the standard procedure for ordinance adoption as defined in the Municipal Planning Code. All ordinances are required to be advertised and are then discussed and adopted during Township Board of Supervisors Meetings, which are open to the public. One MS4-related ordinance was adopted within the previous year.

- BMP 2.3

Description:

Regularly solicit public involvement and participation from the target audience groups. This should include an effort to solicit public reporting of suspected illicit discharges. Assist the public in their efforts to help implement your SWMP. Conduct public meetings to discuss the on-going implement of your SWMP.

Measurable Goal:

Conduct at least one public meeting per year to solicit public involvement and participation from target audience groups. The public should be given reasonable notice through the usual outlets a reasonable period in advance of each meeting. During the meetings, you should present a summary of your progress, activities, and accomplishments with implementation of your SWMP, and you should provide opportunities for the public to provide feedback and input. Your presentation can be made at specific MS4 meetings or during any other public meeting. Under this MCM, you should document and report instances of cooperation and participation in your activities; presentations you made to local watershed organizations and conservation organizations; and similar instances of participation or coordination with organizations in your community. You also should document and report activities in which members of the public assisted or participated in your meetings and in the implementation of your SWMP, including education activities or organized implementation efforts such as cleanups, monitoring, storm drain stenciling, or others.

Action Plan:

(1) Illicit Discharge Reporting: The Township routes all complaints through the Zoning Officer, from beginning to resolution. Her contact information is provided on the Township's website.

(2) Public Meeting: The Township will hold one public meeting per year, to review the status of their MS4. These meetings will typically be scheduled during a regularly held Board of Supervisors Meeting.

MCM 2

Chesapeake Bay Pollutant Reduction Plan (CBPRP) Ordinance was adopted in February, 2015.

As such, the Lower Windsor Township Manager and Zoning Officer attend the regular quarterly CBPRP Committee meetings, unless a meeting is canceled or a date is rescheduled by the Management Committee. Additionally, the Manager, Zoning Officer, and Township Engineer typically provide quarterly updates regarding the CBPRP to the Board of Supervisors and any public meeting attendees.

In August, 2015, Lower Windsor Township submitted a project for consideration to the CBPRP regarding Municipal Infrastructure Upgrades. The infrastructure upgrade consisted of the installation of a 165 L.F. infiltration berm along the lower east side of the Township's newly constructed maintenance building. The berm captures runoff from the building roof and a portion of the parking lot, prior to discharging off site. The berm provides stormwater volume reduction and water quality benefits above the minimum required by the Ordinance. Estimated reductions are as follows:

- | | |
|----------------|-----------------|
| 1. Nitrogen | 0.88 lbs/year |
| 2. Phosphorous | 0.42 lbs/year |
| 3. Sediment | 166.42 lbs/year |



**LOWER WINDSOR TOWNSHIP
BOARD OF SUPERVISORS
FEBRUARY 11, 2016, 6:30 PM
AGENDA**

1. **CALL TO ORDER**
2. **PLEDGE TO FLAG**
3. **PUBLIC COMMENT**
4. **PRESENTATION ON STORMWATER – C.S. Davidson**
5. **APPROVAL OF MINUTES - January 4, 2016**
6. **REPORTS**
 1. **Police**
 2. **Manager**
 3. **Solicitor**
 4. **Engineering**
 5. **Highway**
 6. **Emergency Services**
7. **ZONING**
 1. **Authorize to Advertise Burn Ordinance**
 2. **Resolution 2016-10 – Planning Module for Marshall Subdivision**
8. **OLD BUSINESS**
9. **NEW BUSINESS**
 1. **Resolution 2016-07 – ICMA Retirement Plan**
 2. **Resolution 2016-08 – New Police Vehicle**
 3. **Resolution 2016-09 – Exonerate Tax Collector**
 4. **Tax Exonerations**
 5. **Approval to Extend Collective Bargaining Agreement**
 6. **Approval of Bills**
 7. **Other Pertinent Business**
10. **ADJOURNMENT**

**LOWER WINDSOR TOWNSHIP
BOARD OF SUPERVISORS
REGULAR MEETING
FEBRUARY 11, 2016
6:30 P.M.**

The Lower Windsor Township Board of Supervisors held their Regular meeting at the Township Community Building 2425 Craley Road, Wrightsville. The meeting was called to order by Chairman Barry Miller at 6:30 p.m. with a pledge to the flag. Also present at the meeting were Supervisors Gerald Kellner and Donald Schock; Township Manager Maureen Hartman; Secretary-Treasurer Linda Zimmerman; Zoning Officer Sande Cunningham; Solicitor John Herrold; Engineer John Klinedinst and Chief Tim Caldwell. Patrons in attendance: 8.

Supervisor Miller announced that an executive session was held prior to the meeting for personnel matters.

PUBLIC COMMENT:

1. **JIM HOOPER:** Commented on the plowing of Bank Hill and Klines Run Roads.
2. **MARY CALDWELL:** Mary Caldwell of the EYARC, Hollis Bedell of the LWAHS and Connie Loper of Kaltreider-Benfer Library informed the Board that they are working together to offer a Summer Reading Program in the park. They are in the early stages and will keep the Board updated on the progress.

PRESENTATION OF STORMWATER – C. S. Davidson, Inc: Mr. Klinedinst gave a presentation on stormwater management in regards to the MS4 program. Mr. Klinedinst noted that this MS4 program is a federal requirement. The township staff is doing a great job at completing all the requirements on a yearly basis for the annual report which is submitted in July. Mr. Klinedinst also noted that in January DEP is starting to strongly enforce these regulations on farmers.

MINUTES: Motion by Supervisor Schock, seconded by Supervisor Kellner to approve the January 4th Reorganization and regular meeting minutes, motion carried.

REPORTS:

1. **POLICE:** Chief Caldwell submitted his report for review. Chief Caldwell informed the Board on the investigation of firearms at the school and wanted to recognize Ofc. Dickmyer and Ofc. Neff on their performance during this investigation. Chief Caldwell also reported that Ofc. Thomas completed his MCSAP updates. Chief Caldwell informed the Board that QRT tryouts will be March 23rd this year and is asking for approval to send Ofc. Jackson. He is asking to have an answer by the March meeting. Chairman Miller and Supervisor Kellner voiced no objection as long as the arrangement with Ofc. Jackson remains the same as last year.
2. **MANAGER:** Ms. Hartman submitted her report for review.
 - a. Ms. Hartman informed the Board we had some issues with the water system and asked Mr. Taylor to explain the issues. Mr. Taylor reported that the chlorine pump failed and two water softeners stopped working and the building is on a "boil water" advisory by DEP. Martins Water Conditioning replaced the chlorine pump and now the circulation hose needs to be replaced. The other issue is the dye meter which does not work anymore. This dye system is obsolete and we cannot get parts for repairs. This system is not DEP required and Mr. Taylor is asking the Board if they want to replace this system at a cost of \$1,500. The Board by consensus agreed to disconnect the system. While DEP was here they noticed a cross pipe that needs to be fixed and Mr. Taylor reported that Martins Water Conditioning can provide us with a price for repairs. Martin's Water conditioning will also provide a maintenance proposal for 2017.
 - b. Ms. Hartman reported that she was asked by Windsor Borough if we would be interested in offering police services. The Board is not interested.
 - c. Ms. Hartman noted that we received \$2,612 for our 2013 recycling efforts.
 - d. Ms. Hartman reported she submitted \$40,000 to FEMA/PEMA for reimbursement for the snow storm costs.

Supervisor Kellner asked Mr. Klinedinst if the problems we're having with the building are because of the type of materials or just normal wear and tear. Mr. Klinedinst replied that it's not because of the type of materials but just normal wear and tear due to the age of the building.

3. **SOLICITOR:** Atty. Herrold submitted his report for review and thanked the Board for his appointment as Solicitor.
4. **ENGINEER:** Mr. Klinedinst submitted his report for review and thanked the Board for his appointment as Engineer. Mr. Klinedinst noted that he needs to schedule with Chairman Miller and Roadmaster for road inspections and Ms. Hartman and Ms. Cunningham to review for the MS4 Annual Report.
5. **HIGHWAY:** Mr. Miller submitted his report.
6. **EMERGENCY SERVICES:** Yorkana Fire Co. and Craley Fire Co submitted reports.

ZONING:

1. **AUTHORIZE TO ADVERTISE BURN ORDINANCE:** Motion by Supervisor Kellner, seconded by Supervisor Schock to authorize the ad for the Burn Ordinance, motion carried.
2. **RESOLUTION 2016-10 PLANNING MODULE FOR MARSHAL SUBDIVISION:** Motion by Supervisor Schock, seconded by Supervisor Kellner to approve the planning module for the Marshall subdivision plan, motion carried.

OLD BUSINESS: None

NEW BUSINESS:

1. **RESOLUTION 2016-07: ICMA-RC RETIREMENT PLAN:** Ms. Zimmerman informed the Board that we have to amend and restate the non-uniform pension plan to ensure accordance with the current IRS regulations. Motion by Supervisor Schock, seconded by Supervisor Kellner to adopt the amended and restated pension plan, motion carried.
2. **RESOLUTION 2016-08: NEW POLICE VEHICLE:** This is a requirement from Fulton Bank for the purchase of the new police vehicle. Supervisor Kellner questioned when the Board approved the purchase. It was thought that the purchase was approved at the December meeting when the budget was adopted. Supervisor Kellner feels there was a step missed in the process for approval and would prefer that in the future requests need to come before the Board for approval even though it's in the approved budget. Motion by Supervisor Schock, seconded by Chairman Miller, motion carried.
3. **RESOLUTION 2016-09: EXONERATE TAX COLLECTOR:** Our tax collector Mr. Kline provided a listing of all uncollected taxes for 2014-2015 for real estate and per capita taxes. This resolution exonerates the tax collector from collection of uncollected taxes and allows the Township to turn the outstanding accounts over to the York Adams Tax Bureau for collections. Motion by Supervisor Kellner, seconded by Supervisor Schock to adopt Resolution 2016-09, motion carried.
4. **TAX EXONERATIONS:** Motion by Supervisor Schock, seconded by Supervisor Kellner to approve the tax exonerations, motion carried.
5. **APPROVAL TO EXTEND COLLECTIVE BARGAINING AGREEMENT:** Motion by Supervisor Kellner, seconded by Supervisor Schock to approve the extension of the Collective Bargaining Agreement for one year, motion carried.
6. **APPROVAL OF BILLS:** Motion by Supervisor Schock, seconded by Supervisor Kellner to approve the bills as listed in the amount of \$80,918.82, motion carried.
7. **OTHER PERTINENT BUSINESS:** None

Meeting adjourned at 7:27 pm.

Respectfully submitted,


Linda J. Zimmerman
Secretary

LOWER WINDSOR TOWNSHIP 2015-16 MS4 PUBLIC MEETING



PRESENTED BY:

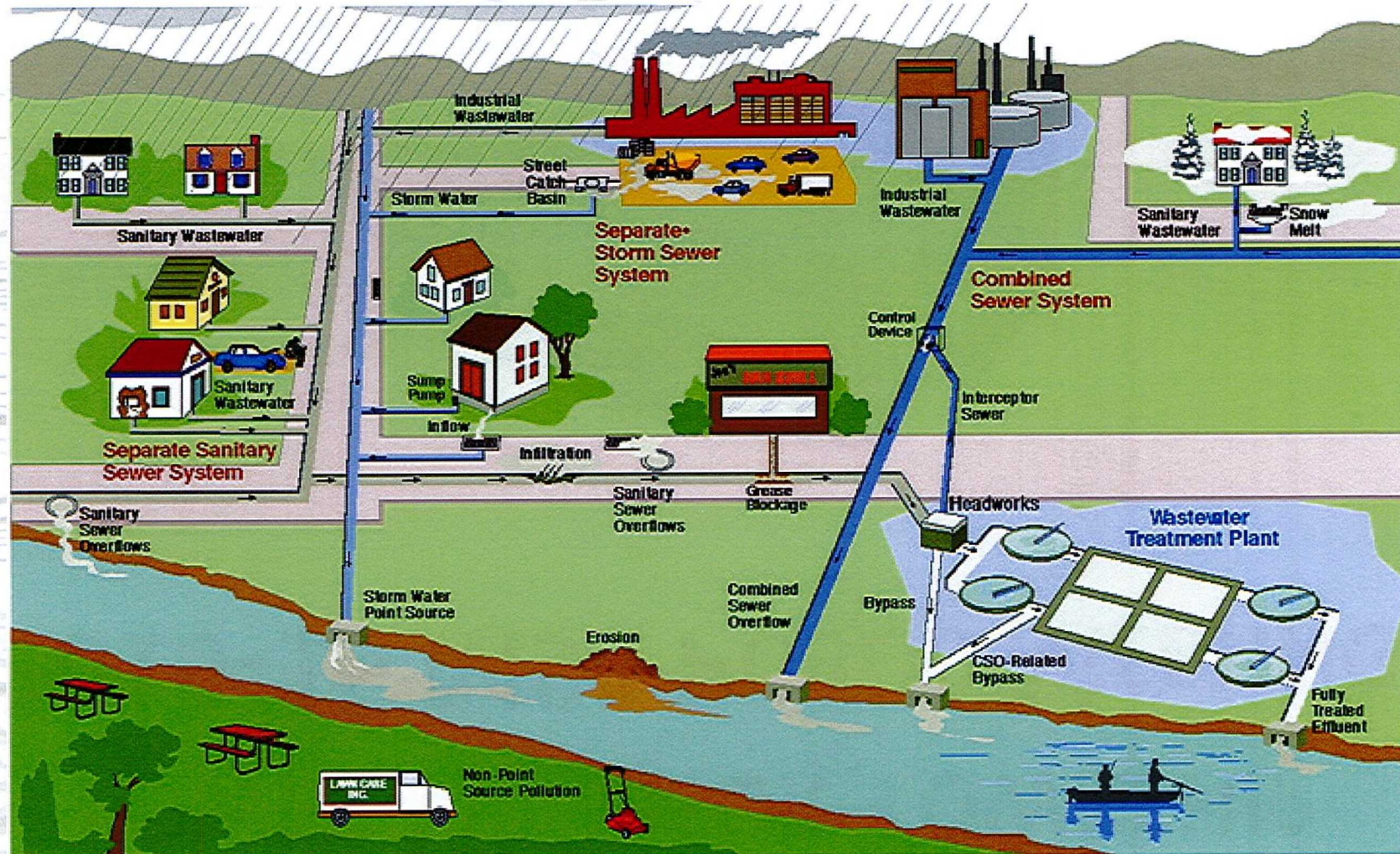
JOHN A. KLINEDINST, P.E.



C.S. Davidson, Inc.

Excellence in Civil Engineering

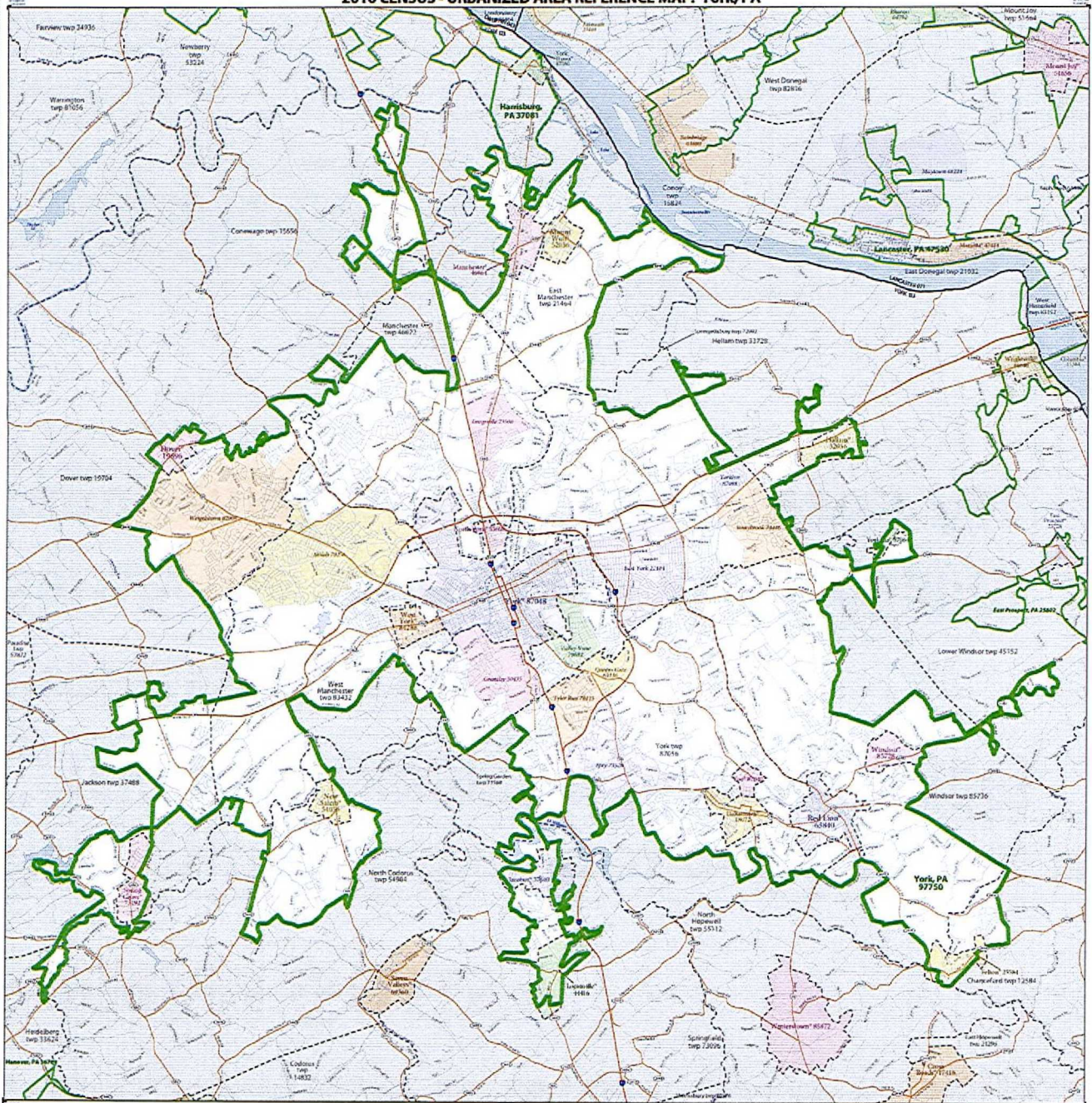
MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)



NPDES PHASE II MS4 STORMWATER PROGRAM GOALS

- **Reduce the discharge of pollutants to the “maximum extent practicable” (MEP)**
- **Protect water quality**
- **Satisfy the appropriate water quality requirements of the Clean Water Act**

2010 CENSUS - URBANIZED AREA REFERENCE MAP: York, PA



SYMBOL DESCRIPTION	LEGEND	LEGISLATIVE
Interstate	Thick solid line	CANADA
Major Arterial Road	Thick dashed line	L'ARDEUSE 1080
Minor Arterial Road	Thin dashed line	T1880
State Route	Thin solid line	Dover, DE 24580
County Road	Thin dashed line	Tooele, VT 88057
Local Road	Thin solid line	NEW YORK 36
Water	Blue area	EM 606
Forest	Green area	Brook town 27485
Wetland	Light green area	MILFORD 47500
Unimproved Land	Yellow area	Days 18100
Developed Land	Orange area	Lower Village 47396

When boundaries are shown on this map, they are shown as they appear on the ground. The map does not show the boundaries of the 2010 Census tracts. The boundaries shown on this map are for informational purposes only and do not constitute a legal description of any land. The map is not to be used for legal purposes.

1. If a 1/4 section map and/or a map showing a 1/4 section, it is shown in this map as a 1/4 section map. The map shows the same name and PPT code as the map on the 1/4 section map.

2. If a 1/4 section map is shown on this map, it is shown as a 1/4 section map. The map shows the same name and PPT code as the map on the 1/4 section map.

3. If a 1/4 section map is shown on this map, it is shown as a 1/4 section map. The map shows the same name and PPT code as the map on the 1/4 section map.

SUBJECT AREA COULDED ON MAP SHEET
 0211 York

MS4 AUDITS

- DEP and EPA both have ability to perform audits of MS4 programs

4-4B

800-FM-BPNP5M0489 6/2013
 pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION
 COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT
MS4 COMPLIANCE INSPECTION REPORT

NPDES Permit No.	Mo/Day/Yr	Entry Time	Exit Time	Inspection Type	eFACTS Inspection ID
PAG133596	08/21/2014	09:00	16:00	DAI	2302697
MS4 Permittee Name: York City				<input checked="" type="checkbox"/> PAG-13 Coverage <input type="checkbox"/> Individual Permit <input type="checkbox"/> Check here if a "joint permit" with co-permittees	
Mailing Address: 101 S George Street, York, PA 17401-1231				Municipality: York City	
Responsible Official: James Gross		Title: Director Dep. of Public Works		County: York	
Business Phone: (717) 849-2245		Email: JGross@yorkcity.org		Permit Expiration Date: March 31, 2018	
Co-Permittees (if applicable):				Permit Renewal Application/NOI Due: October 2, 2017	
				Chosapeake Bay Watershed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Office Visit <input type="checkbox"/> Field Visit				Discharge(s) to TMDL Waters? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
VIOLATIONS: (list below) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Several comments are listed below.					
Person Interviewed: James Gross		Date: 08/21/2014	Inspectors: Mike Hickman		Date: 08/21/2014
Signature:		Phone No.:	Inspector Signature: <i>[Signature]</i>		Phone No.: (717)705-6640
Title: Director Department of Public Works			Title: Environmental Engineering Specialist		
Email: JGross@yorkcity.org			Email: johickman@pa.gov		

This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. Any violations which were noted during the inspection are indicated. Violations may

MS4 AUDIT COMPONENTS

- **Opening conference**
- **Office record review**
- **Staff interviews**
- **Field inspections**
- **Exit interview**

MS4 AUDIT RECORD REVIEW EXAMPLE

Documentation	What to Look For
Local Ordinances	One or more of the following ordinances: Grading, Erosion Control, Stormwater, Landscaping
Design Standard/BMP Guidance Manual	State or local standards or taken from a non- regulatory source
Inspection Reports	Review reports to determine if inspections are thorough and adequately documented
Construction Plan	Review plans to ensure they meet the defined standards
Enforcement Plan	Is the enforcement plan documented? Are roles and responsibilities clearly defined?

MINIMUM CONTROL MEASURES (MCM)

- **Public Education and Outreach on Stormwater Impacts**
- **Public Involvement/Participation**
- **Illicit Discharge Detection and Elimination (IDD&E)**
- **Construction Site Stormwater Runoff Control**
- **Post-Construction Stormwater Management (PCSM) in New and Redevelopment Activities**
- **Pollution Prevention/Good Housekeeping for Municipal Operations**

MCM #1: PUBLIC EDUCATION & OUTREACH ON STORMWATER IMPACTS

What is Storm Water?

Storm water is water from precipitation that flows across the ground and pavement when it rains or when snow and ice melt. The water seeps into the ground or drains into what we call storm sewers. These are the drains you see at street corners or at low points on the sides of streets. Collectively, the draining water is called storm water runoff.

Why is Storm Water "Good Rain Gone Wrong?"

Storm water becomes a problem when it picks up debris, chemicals, dirt, and other pollutants as it flows or when it causes flooding and erosion of stream banks. Storm water travels through a system of pipes and roadside ditches that make up storm sewer systems. It eventually flows directly to a lake, river, stream, wetland, or coastal water. All of the pollutants storm water carries along the way empty into our waters, too, because storm water does not get treated!



Pet wastes left on the ground get carried away by storm water, contributing harmful bacteria, parasites and viruses to our water.



Vehicles drip fluids (oil, grease, gasoline, antifreeze, brake fluids, etc.) onto paved areas where storm water runoff carries them through our storm drains and into our water.



Chemicals used to grow and maintain beautiful lawns and gardens, if not used properly, can run off into the storm drains when it rains or when we water our lawns and gardens.

Waste from chemicals and materials used in construction can wash into the storm sewer system when it rains. Soil that erodes from construction sites causes environmental degradation, including harming fish and shellfish populations that are important for recreation and our economy.



Where To Go To Continue the Information Flow

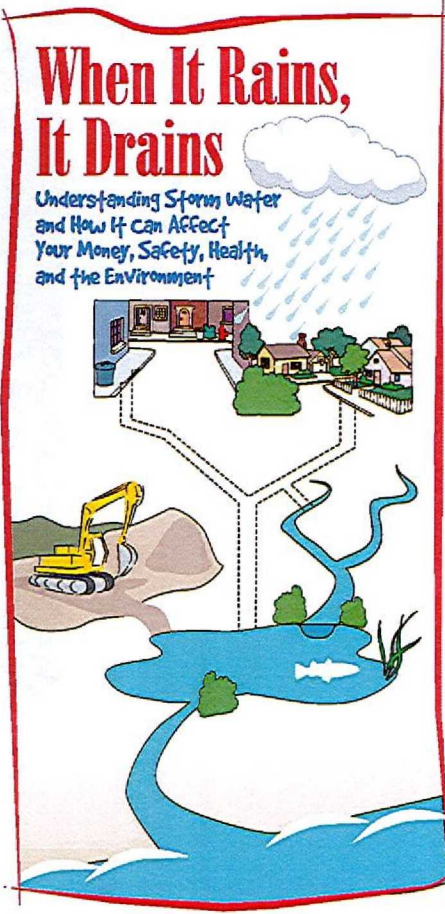
Your community is preventing storm water pollution through a storm water management program. This program addresses storm water pollution from construction, new development, illegal dumping to the storm sewer system, and pollution prevention and good housekeeping practices in municipal operations. It will also continue to educate the community and get everyone involved in making sure the only thing that storm water contributes to our water is ... water! Contact your community's storm water management program coordinator or the Pennsylvania Department of Environmental Protection for more information about storm water management.



Pennsylvania Department of Environmental Protection
www.dep.state.pa.us

Answers to Test Your Storm Sewer System Savvy:

1. Check - Part of the storm sewer system. Most people think that the system is just a series of underground pipes. It can also include ditches used to convey storm water from the land to a receiving lake, river, or stream.
2. Fine siltation - Most part of the storm sewer system. Most spread from the tributaries is not storm water, but is silted by dirt from the storm sewer system. Heavy pipes do not reduce the silt. It is an ongoing problem. Although good pipe has been laid (e.g., catch basins, manholes, etc.), it is not being cleaned. Siltation is a problem because it can block the system and cause flooding.
3. Check with Sinking - Part of the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system.
4. Storm Sewer Outlet - Part of the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system.
5. Check with Sinking - Part of the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system.
6. Check with Sinking - Part of the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system.
7. Check with Sinking - Part of the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system.
8. Check with Sinking - Part of the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system.
9. Check with Sinking - Part of the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system.
10. Check with Sinking - Part of the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system. An outlet is where storm water flows from the storm sewer system.



MCCM #2: PUBLIC INVOLVEMENT/ PARTICIPATION



MCCM #2: PUBLIC INVOLVEMENT/ PARTICIPATION



MCM #3: ILLICIT DISCHARGE DETECTION & ELIMINATION (IDD&E)



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID:	
Today's date:		Time (Military):	
Investigators:			
Temperature (°F):		Rainfall (in.): Last 24 hours:	Last 48 hours:
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED	
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____ Depth: _____ Top Width: _____ Bottom Width: _____	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____			
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (if present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
	PARAMETER	RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
	Temperature		°F	Thermometer
	pH		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Public Complaints Received by Telephone Protocol:

1. All public complaints shall be logged and include the following:

Date:	Time:
Resident's Name:	
Resident's Address:	
Location of Complaint:	
Complaint Narrative:	

2. Residents with complaints regarding Construction Sites, Construction Site Stormwater Runoff, Mud/Dirt on Streets, Dust, or similar complaints shall be directed to call the **York County Conservation District at (717) 840-7430.**

3. Residents with complaints regarding Stream Pollution including Odor, Color, Soap Bubbles, Oil Sheen, Trash, Overgrown Vegetation, or similar complaints shall be directed to call the **Municipal Engineer, C.S. Davidson, Inc., at (717) 846-4805.**

MCM #4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL



MCM #4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL



MEMORANDUM OF UNDERSTANDING (MOU)
Between the
YORK COUNTY CONSERVATION DISTRICT
and
THE BOROUGH OF WRIGHTSVILLE

This Memorandum has been prepared jointly and agreed upon by each party for the following purposes:

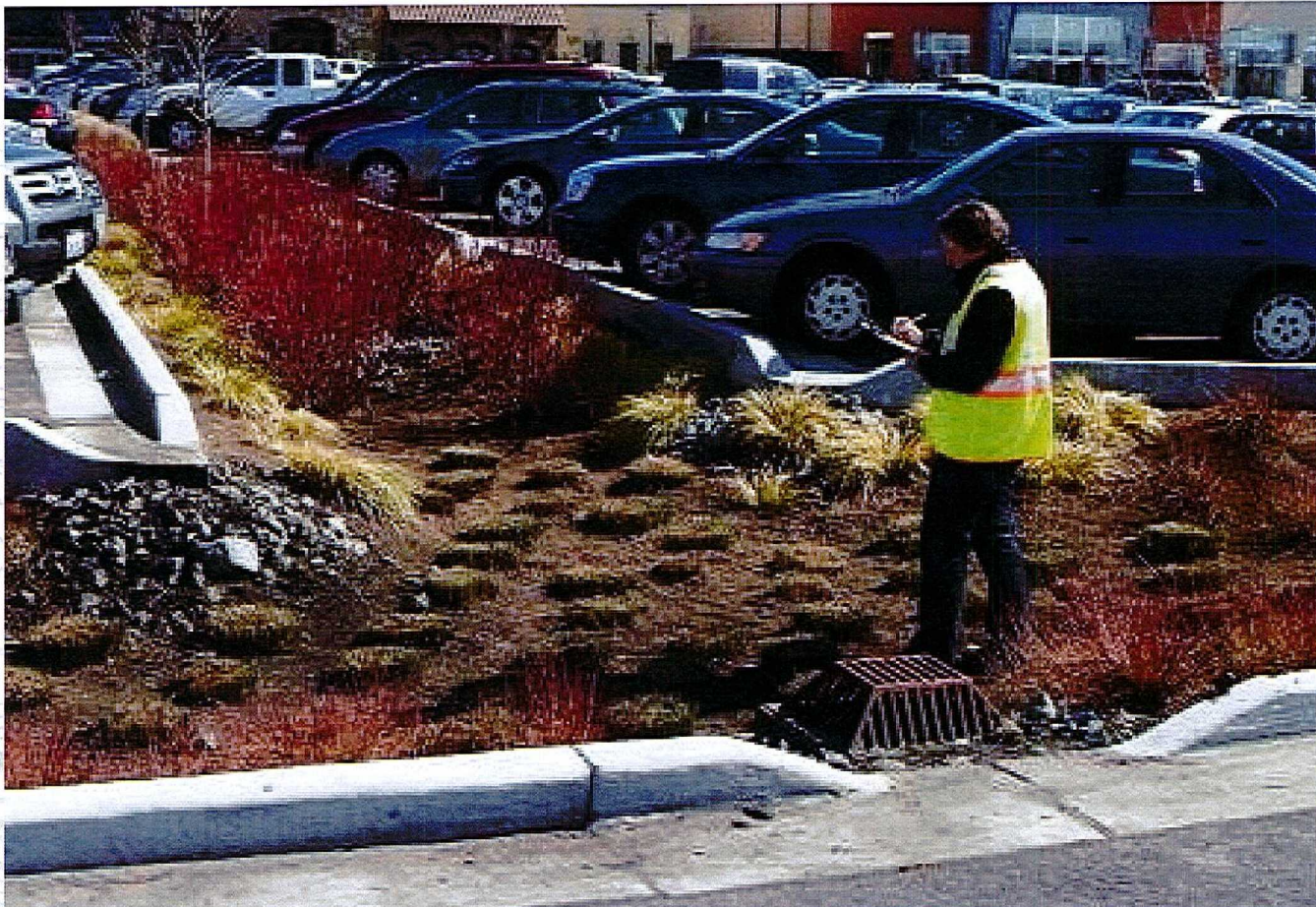
- To serve as a joint commitment by the signatory parties to control accelerated erosion and to prevent sediment pollution to the waters of the Commonwealth which may result from earth disturbance activities conducted in THE BOROUGH OF WRIGHTSVILLE.
- To serve as a joint commitment by the signatory parties to ensure Best Management Practices (BMPs) are implemented on the ground to protect, maintain, reclaim, and restore water quality and the existing and designated uses of waters of this Commonwealth located in THE BOROUGH OF WRIGHTSVILLE for the benefit of the Borough's citizens and downstream water users.
- To serve as a basis for stating the role of each party in administering the Commonwealth of Pennsylvania's Title 25, Chapter 102 regulations and General-(PAG-02) National Pollutant Discharge Elimination System (NPDES) permit for Stormwater Discharges from Construction Activities.
- To assist THE BOROUGH OF WRIGHTSVILLE in meeting its minimum control measures as required by federal PAG-13 permit for Stormwater Discharges from Small Separate Storm Sewer Systems (MS-4s). This MOU will serve to satisfy Minimum Control Measure #4 – Construction Site Runoff Control- and will assist in satisfying Minimum Control Measure #5 – Post-Construction Stormwater Management in New Development and Redevelopment.
- To serve as a basis for stating the role of each party in administering the provisions of THE BOROUGH OF WRIGHTSVILLE Post-Construction Stormwater Management Ordinance # 2012-2 and Subdivision and Land Development Ordinance # 1991-6.

I. In carrying out the intent of this memorandum, the York County Conservation District (District) will:

A. E&S Plan Reviews / NPDES Permit Processing

- 1) Invite the Borough engineer to all scheduled NPDES pre-application meetings. Attendance will be at the Borough engineer's discretion.
- 2) Complete a technical review of all E&S plans proposing 1 acre or more of earth disturbance and determine if an NPDES permit is required. Initial technical reviews will be completed within 50 calendar days of receiving a complete plan submission. Additional technical reviews will be completed within 30 calendar days of receiving a complete revised plan submission.
- 3) Complete a technical review of all E&S plans proposing 5,000 square feet to 0.99 acres of earth disturbance when required by Borough ordinance. The technical review will be completed within 50 calendar days of receiving a complete plan submission.

MCM #5: POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM)



PLAN APPROVAL PROCESS

- **Ensure all reviews have been completed**
- **Ensure all required permits are in place**
- **Ensure any required public security has been bonded**
- **Ensure an Operation and Maintenance Agreement has been executed and recorded**

O&M AGREEMENTS

- **Must be recorded as part of the plan approval process**
- **Provides a legal, enforceable mechanism to ensure long term maintenance**
- **Transferable with the land**

INSPECTION REPORTS



City of York BMP Inspection Form

Site: Logos Academy
BMP: Rain Garden, Two Underground Chambers
Date: 2/6/2013
Inspector: Derek Rinaldo, E.I.T.

Earthen Components	Structural Components	On-going Maintenance Issues
<input type="checkbox"/> Downslope Berm Condition	<input type="checkbox"/> Outlet Structure	<input checked="" type="checkbox"/> Accumulation of Sediment
<input type="checkbox"/> Inside Berm Condition	<input type="checkbox"/> Pipe	<input type="checkbox"/> Trash
<input type="checkbox"/> Settlement	<input type="checkbox"/> Outlet Structure	<input type="checkbox"/> Specific Maintenance to Structural (See Attached)
<input type="checkbox"/> Vegetation	<input type="checkbox"/> Cleanouts	
<input type="checkbox"/> Bottom of Basin		

Comments:
The Logos site as a whole is being very well maintained and is in good condition. There is little to no trash present on site and all vegetated areas are well stabilized.
The rain garden (refer to photos 1-2) is stabilized with healthy plantings. The outlet structure is clear and free of debris. No action beyond regular maintenance is currently needed.
STM B2 and STM F1 (photos 3-4 and photos 5-6, respectively) both contain orifice plates which control flow from underground stormwater chambers. Both structures have accumulated a heavy amount of debris and leaves and need to be cleaned out.
STM D1 (photos 7-8) contains a water quality structure. There is evidence of debris and oily runoff from the parking area in the bottom of the structure which needs to be cleaned out and properly disposed of.

Action Items (Determined From Inspection Notes):		
Clean debris from STM B2 and STM F1	Completion Date:	Initials:
Remove debris/oil deposits from STM D1	Completion Date:	Initials:
	Completion Date:	Initials:
	Completion Date:	Initials:
	Completion Date:	Initials:

MCM #6: POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS



**OPERATION AND MAINTENANCE INSPECTION REPORT
INLETS / CATCH BASINS**

Name: _____ Date: _____ Time: _____

SITE DESCRIPTION:

LOCATION (Narrative Description): _____

CONDITIONS (Weather, Temp., Etc.): _____

DOMINANT WATERSHED LAND USES: INDUSTRIAL COMMERCIAL RESIDENTIAL UNKNOWN
OTHER: _____

OPERATION AND MAINTENANCE PLAN TASKS:

- | Yes/No | Tasks |
|--------------------------|--|
| <input type="checkbox"/> | 1. Remove debris and litter from inlet grate to ensure proper collection of runoff. Inspect structural integrity of inlet grate and box. Dispose of debris and litter appropriately.

Notes: _____ |
| <input type="checkbox"/> | 2. Inspect inlet bottom for accumulated debris and litter. Vacuum accumulated debris and litter.

Notes: _____ |
| <input type="checkbox"/> | 3. Inlets equipped with water quality units shall be vacuumed annually. Any oil collection devices shall be inspected to determine if it needs replaced.

Notes: _____ |

OTHER: _____

COMMENTS: _____

DATA SHEET FILLED OUT BY: (signature): _____ DATE: _____
(print name): _____

DEFINITIONS

- **MCM = Minimum Control Measures**
- **BMP = Best Management Practices**
- **SWMP = Stormwater Management Program**
- **QLP = Qualifying Local Program**
- **PAG-13 = Pennsylvania General Permit**
- **NPDES = National Pollutant Discharge Elimination System**
- **E&S = Erosion and Sediment**
- **O&M = Operation and Maintenance**

MCM #3 Appendix

- **MCM #3 Project Plan**
- **BMP 3.1 Attachments**
 - Inspection Sheet Guidance
 - Illicit Discharge Field Inspection Protocol
- **BMP 3.2 Attachments**
 - Storm Sewer Outfall Maps
- **BMP 3.4 Attachments**
 - Outfall Inspections
 - Outfall Field Inspections
- **BMP 3.6 Attachments**
 - Public Complaints Protocol
 - Stormwater Complaints to Township Manager
 - Zoning Officer Stormwater Conversation Log
 - Shalako Mobile Home Park Inspection
 - Rexroth Farms Application
 - Resident Stormwater Complaint 7-7-15
 - Letter to Resident 7-7-15

MCM #3 Project Plan

- BMP 3.1

Description:

You shall develop and implement a written program for the detection, elimination, and prevention of illicit discharges into your regulated MS4s. Your program shall include dry weather field screening of outfalls for non-stormwater flows, and sampling of dry weather discharges for selected chemical and biological parameters. Test results shall be used as indicators of possible discharge sources.

Measurable Goal:

For new permittees, the IDD&E program shall be developed during the first year of coverage under this General Permit and shall be implemented and evaluated each year thereafter. For renewal permittees, the existing IDD&E program shall continue to be implemented and evaluated annually. Records shall be kept of all outfall inspections, flows observed, results of field screening and testing, and other follow-up investigation and corrective action work performed under this program.

Action Plan:

1) Procedures for identifying priority areas

A list of Priority Outfalls was identified in the Township's 2014-2015 MS4 Annual Report. The Township identified Outfalls 1-2 and 3-6 to be priority outfalls. Outfall 1-2 contains the largest drainage area of any other outfall within the Township's regulated MS4. Outfall 3-6 drainage area contains a mix of agricultural and residential runoff. The outfall list is reviewed annually, and outfalls will be added or removed from this list based on the results of field inspections.

2) Procedures for screening outfalls during various seasonal conditions

The Township utilizes the Illicit Discharge Field Inspection Guide for screening procedures. This guide summarizes the proper criteria for when an inspection should be performed.

3) Procedures for identifying a source of an illicit discharge

The Township utilizes the Illicit Discharge Field Inspection Guide to aid in identifying illicit discharges. The standard PA DEP Outfall reconnaissance Inventory/Sample Collection Field Sheet shall be utilized for logging inspections. In the event a situation is not covered in this guide, Chapter 7 of the IDDE Manual can be utilized for reference.

4) Procedures for eliminating an illicit discharge

The Township will utilize the procedures identified in the Illicit Discharge Field Inspection Guide to aid in identifying illicit discharges. Chapter 8 of the IDDE Manual also provides information and techniques for how to eliminate illicit discharges.

5) Procedures for assessing the potential for illicit discharges caused by the interaction of sewage disposal systems. The Township has established four on-lot management districts, within the Township. The on-lot management plan requires the mandatory pumping of septic systems once every four years. Similar to outfall inspection areas, the Township focuses on one quadrant per year, and requires proof of pumping from each owner of an on-lot septic system within that quadrant.

6) Mechanisms for gaining access to private properties

The Township has not identified any areas in which access is currently an issue. O&M Agreements will be executed and recorded with all new Subdivision, Land Development, and Stormwater Management Site Plans.

7) Procedures for program documentation, evaluation, and assessment.

The Township performs their own illicit discharge inspections and provides a copy to the Township Engineer to be submitted with the annual reports. After the report is submitted to the PA DEP, the Engineer provides a copy of the report back to the Township, which includes a summary memo of the report's contents. The report and memo are provided to the Township Supervisors with the Township Manager and Township Engineer available to answer any questions they may have.

- BMP 3.2

Description:

Develop and maintain a map of your regulated small MS4. The map must also show the location of all outfalls and the locations and names of all surface waters of the Commonwealth (e.g., creek, stream, pond, lake, basin, swale, channel) that receive discharges from those outfalls.

Measurable Goal:

For new permittees, develop the map(s) of your regulated small municipal separate storm sewer systems and the information on all outfalls from your regulated small MS4 by the end of the fourth (4th) year of permit coverage. For renewal permittees, the existing map(s) of your regulated small MS4 shall be updated and maintained as necessary during each year of coverage under the permit.

Action Plan:

The Township's outfall map is reviewed annual by the Township during outfall inspections. Revisions are made as deemed necessary.

- BMP 3.3

Description:

In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), new permittees shall show, and renewal permittees shall update, the entire storm sewer collection system, including roads, inlets, piping, swales, catch basins, channels, basins, and any other features of the permittee's storm sewer system including municipal boundaries and/or watershed boundaries.

Measurable Goal:

For new permittees, develop the map(s) by the end of the fourth (4th) year of coverage under the permit and update and maintain the map(s) as necessary each year of permit coverage thereafter. For renewal permittees, update and maintain the map(s) as necessary during each year of permit coverage.

Action Plan:

The Township's storm sewer map is reviewed annually by the Township during outfall inspections.

- BMP 3.4

Description:

Following the IDD&E program created pursuant to BMP #1, the permittee shall conduct outfall field screening, identify the source of illicit discharges, and remove or correct any illicit discharges using procedures developed under BMP #1.

Measurable Goal:

For all permittees, outfall inspections need to be prioritized according to the perceived chance of illicit discharges within the outfall's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless of the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, transporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance Inventory/Sample Collection field sheet excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained to justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to

identify and eliminate the illicit flow also shall be documented.

Action Plan:

1) Every regulated outfall must be screened at least once during the permit coverage term.

The Township Staff perform the outfall inspections required by the BMP. All inspections follow the procedures previously outlined in BMP 3.1.

2) Outfall Inspection Timing

The Township shall choose what time of year is the most logical time to inspect each outfall, in their system. The Township road crew performs these inspections, in conjunction with their other specific responsibilities. Since this work is shuffled in with other tasks, inspections naturally occur during different periods of time.

3) Outfall Inspection Summary

The Township utilizes the IDDE Quarterly Summary Report to track inspections and log complaints related to illicit discharges.

- BMP 3.5

Description:

Enact a stormwater management ordinance (municipal entities) or develop an SOP (non-municipal entities) to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.

Measurable Goal:

Within the first year of coverage under the permit, new permittees shall enact and implement an ordinance from an Act 167 Plan approved by the Department in 2005 or later, the MS4 Stormwater Management Ordinance; or an ordinance that satisfies all applicable requirements in a completed and signed MS4 Stormwater Management Ordinance Checklist. (For non-municipal permittees, new permittees shall develop and implement a Standard Operating Procedure (SOP) within the first year of coverage). Renewal permittees must continue to maintain, update, implement, and enforce a Stormwater Management Ordinance that satisfies all applicable requirements. (For non-municipal permittees, the SOP satisfies this requirement. If no existing SOP exists, it should be developed during the first year of coverage). New permittees shall submit a letter signed by a municipal official, municipal engineer, or the municipal solicitor as an attachment to their first year report certifying the enactment of an ordinance that meets all applicable requirements of this permit. Renewal permittees shall update their existing ordinance, if necessary, and submit documentation of completion to the Department. (For non-municipal permittees, submit the SOP to the first report).

Action Plan:

The Township adopted an ordinance consistent with the York County Model Act 167 Ordinance on June 14, 2012. Article VII of this ordinance addresses detection and elimination of illicit discharges.

- BMP 3.6

Description:

Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and illicit discharges.

Measurable Goal:

During each year of permit coverage, appropriate educational information concerning illicit discharges shall be distributed to the target audiences using methods outlined under MCM #1. If not already established, set up and promote a stormwater pollution reporting mechanism (e.g., a complaint line with message recording) by the end of the first year of permit coverage for the public to use to notify you of illicit discharges, illegal dumping or outfall pollution. Respond to all

complaints in a timely and appropriate manner. Document all responses, include the action taken, the time required to take the action, whether the complaint was resolved successfully.

Action Plan:

The Township has identified the Zoning Officer to be the lead in investigating and resolving stormwater complaints. The Township has established a Complaints Protocol to address the process of replying to and resolving complaints. At a minimum, one of the proposed educational outreach materials under MCM #1 will be directed at the elimination of illicit discharges.

Inspection Sheet Guidance

This document is intended to provide guidance and information for field inspectors utilizing the "Outfall Reconnaissance Inventory/Sample Collection Field Sheet" for outfall screenings. The "Illicit Discharge Field Inspection Protocol" shall be referenced for procedural questions.

Section 1

- Inspectors shall fill out as much information about the outfall as possible in this section. Any unknown information may be left blank.

Section 2

- Utilize this section to identify important characteristics about the outfall.
- The "Closed Pipe" section shall be used for all pipe outfalls. The "Open Drainage" section is utilized for swales and other similar outfalls.
- If no flow is present, please skip to Section 5. When flow is present, the inspector shall use Sections 3 & 4 to describe the flow as needed.

Section 3

- This section is only utilized if a lab sample is collected. Lab samples shall be collected when the source or pollution of the discharge cannot be identified by physical inspection. We recommend completing Section 4 prior to determining if a sample should be collected.
- If your municipality does not own a field test kit and wish to take a sample, please contact C.S. Davidson to schedule a field sampling.

Section 4

- Describe physical indicators of the outflow to help determine the source of the flow and if it is illegal.

Section 5

- This section should be utilized to identify any damage to outfalls requiring maintenance.

Section 6

- Identify the likelihood of the discharge being illegal. Utilize Section 4 as your guide.

Section 7

- Identify characteristics of lab sample source. Check "no" in box #1 and skip if no sample was collected.

Section 8

- List any other maintenance concerns with outfall in addition to Section 5.

Illicit Discharge Field Inspection Protocol

Outfall mapping and inspections are required per MCM #3 of the MS4 Permit. The following procedures and practices must be observed by the Municipality and Inspector to meet the requirements of the permit. In the event an inspector has questions regarding procedural or reporting requirements, please contact Derek J. Rinaldo, C. S. Davidson, at (717) 846-4805 for clarification.

Procedure for Screening Outfalls:

- Every outfall in the selected inspection area shall be screened once per permit year.
- In addition to the above inspections, each outfall designated as a “priority outfall” shall be screened at least once per permit year.
- Outfall field screenings may only be completed during dry periods. The inspector shall wait a minimum of 48 hours since the last precipitation event to begin inspections. Greater than 48 hours may be needed during period of heavy rain and high groundwater levels.
- The “Outfall Reconnaissance Inventory/Sample Collection Field Sheet” shall be used for reporting. A new sheet should be filled out for each individual outfall inspection. Field Staff should consult the “Inspection Sheet Guidance” information for questions relating to completing the inspection sheet.
- A photo of the outfall should be taken at each inspection and attached to the inspection form.

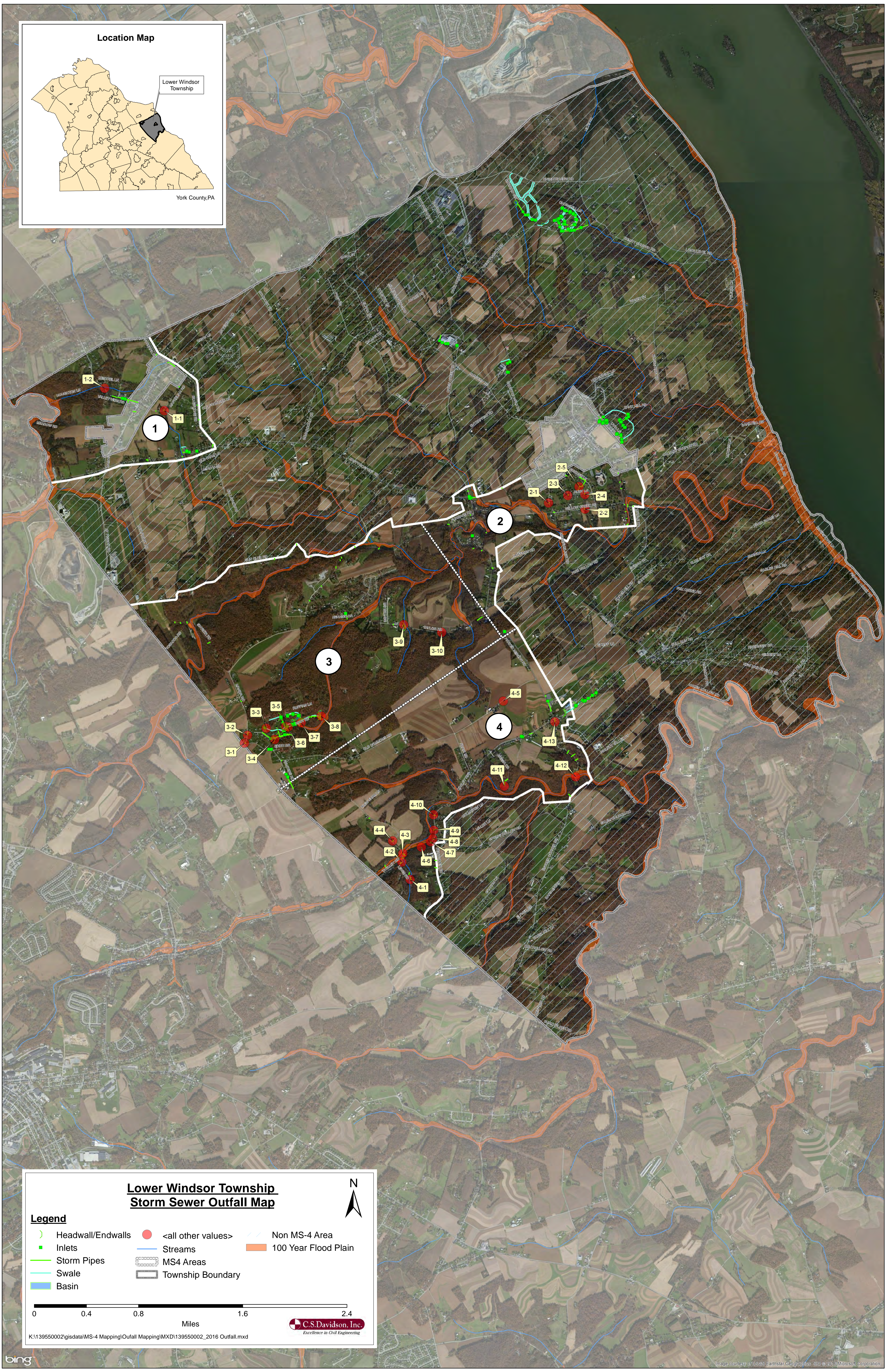
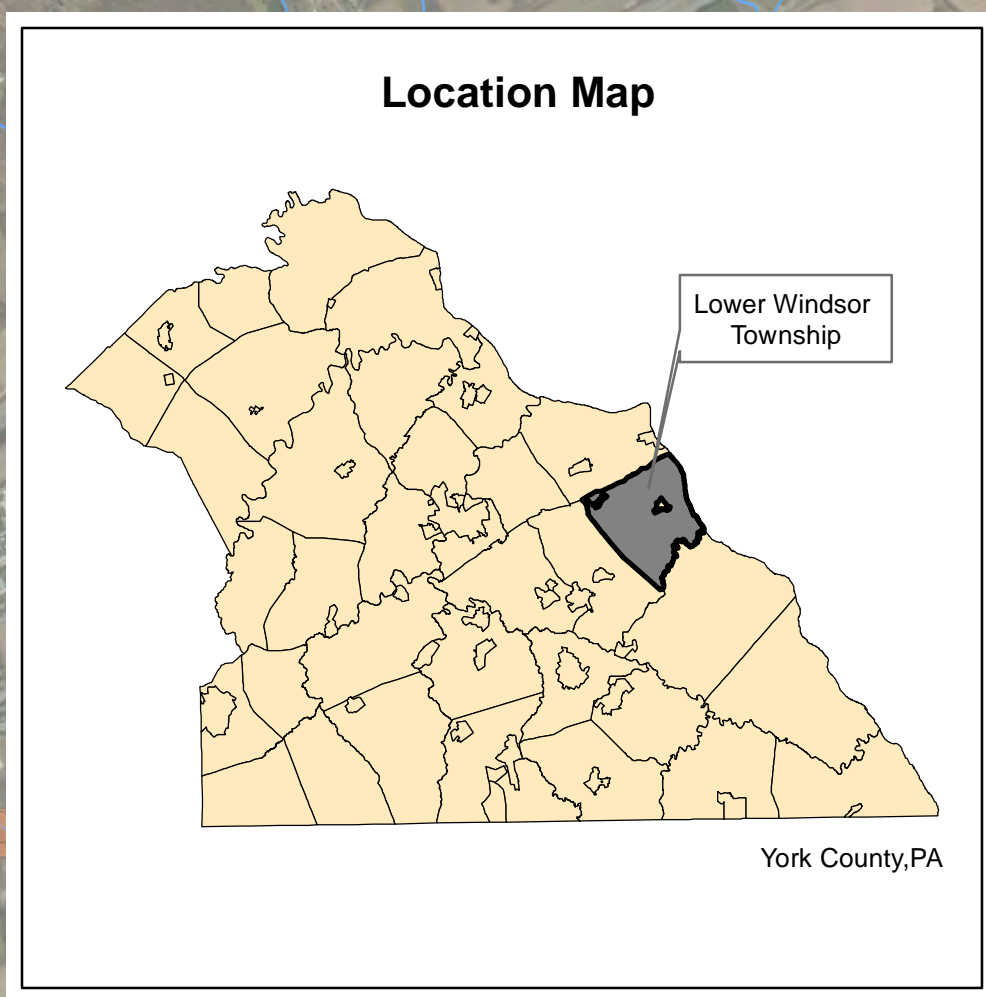
Procedure for Identifying the Source of an Illicit Discharge:

- The field inspector shall observe physical characteristics to determine the type of discharge. Section 4 of the Inspection Sheet shall be utilized for this analysis.
- The field inspector shall determine the discharge’s point of origin by tracing the flow back through the drainage system to find the source. The outfall map shall be utilized for this process.
- In the event that the type or source of illicit discharge cannot be determined by physical characteristics or visual inspection, a lab sample shall be collected for analysis.
- In the event dry weather flow is encountered but no physical or visual evidence indicate that the discharge contains pollutants, the field inspector may attribute this flow to clean ground water based on historical data and knowledge of the area. The location of the groundwater base flow shall be noted on the outfall map and future inspections shall consider this parameter.

Procedure for Eliminating an Illicit Discharge:

- The field inspector shall ensure that the proper point of origin was identified as part of the above procedure.
- Upon confirming the source of an illicit discharge, the municipality shall make a determination on the proper course of remediation. The “Detection and Elimination of Illicit Discharges to the Municipal Separate Storm Sewer System” section of the Stormwater Management Ordinance detail the notification, enforcement and abatement power of the municipality. The Municipal Solicitor shall be contacted as necessary.

In the event circumstances are encountered that are not covered within this protocol, the Illicit Discharge Detection and Elimination Manual published by the Center for Watershed Protection in October 2004 shall be consulted for additional guidance and procedural information.



**Lower Windsor Township
Storm Sewer Outfall Map**

Legend

Headwall/Endwalls	<all other values>	Non MS-4 Area
Inlets	Streams	100 Year Flood Plain
Storm Pipes	MS4 Areas	
Swale	Township Boundary	
Basin		

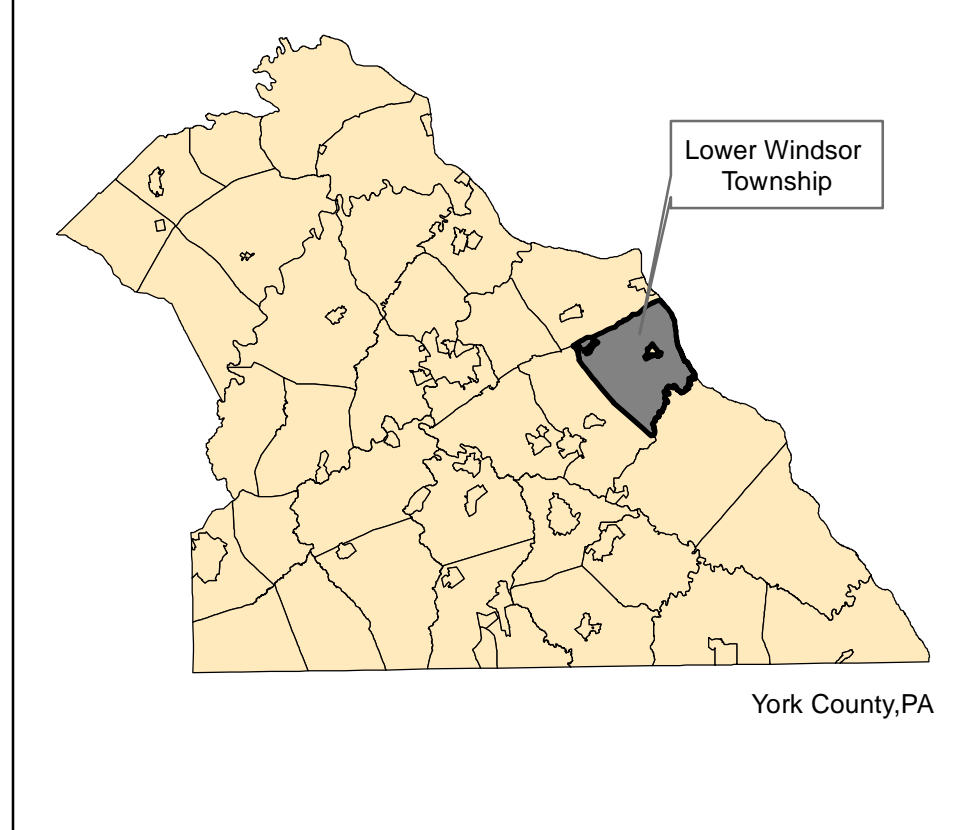
0 0.4 0.8 1.6 2.4
Miles

N

C.S. Davidson, Inc.
Excellence in Civil Engineering

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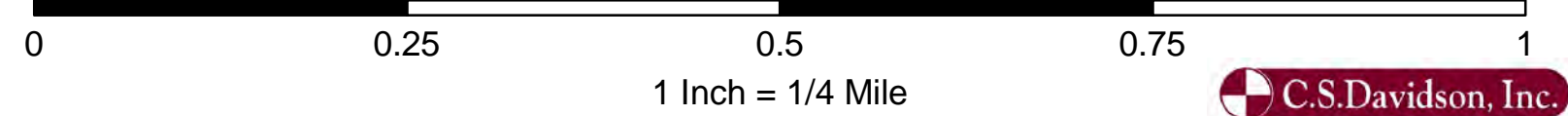
Location Map



Lower Windsor Township
Section 1 Storm Sewer Outfall Map

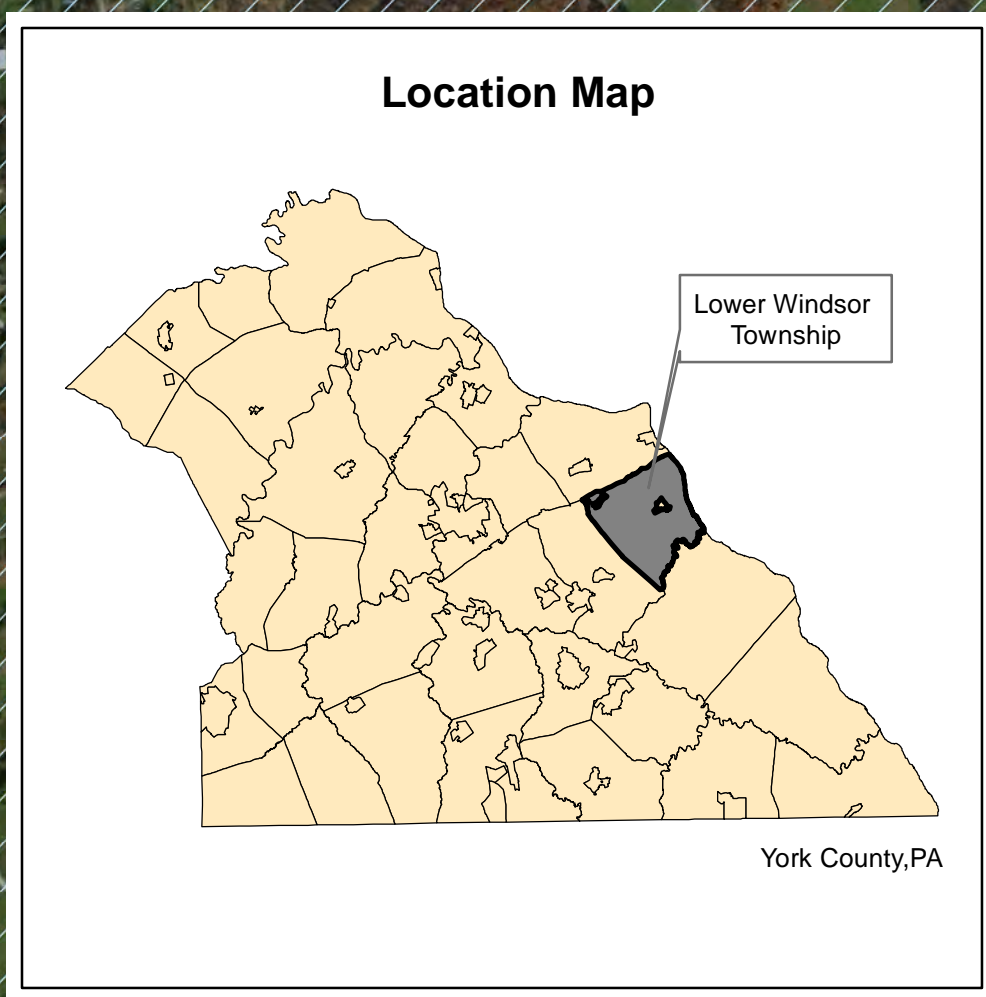
Legend

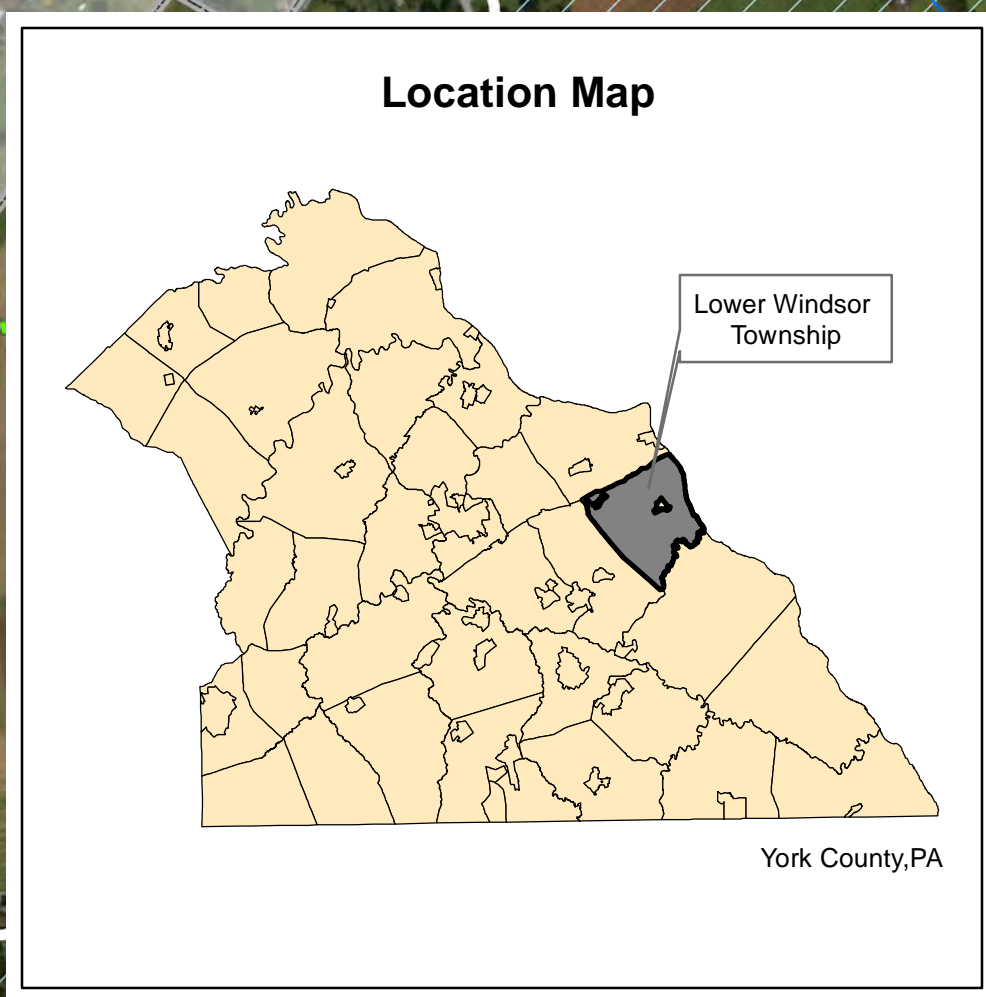
- Headwall/Endwalls
- <all other values>
- Non MS-4 Area
- Inlets
- Streams
- 100 Year Flood Plain
- Storm Pipes
- MS4 Areas
- Swale
- Township Boundary
- Basin



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Lower Windsor Township
Section 3 Storm Sewer Outfall Map

Legend

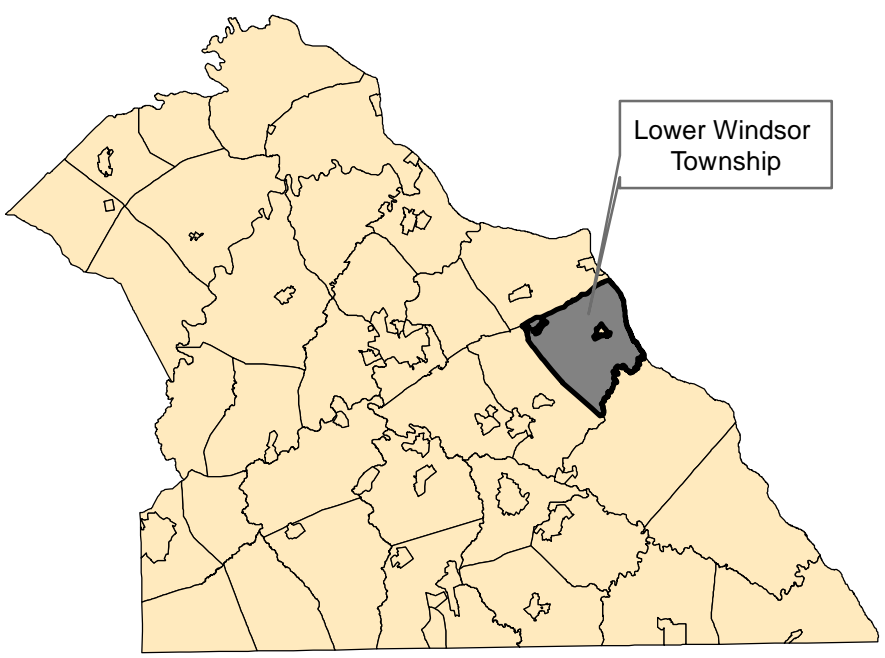
Headwall/Endwalls	Outfalls	Non MS-4 Area
Inlets	Streams	100 Year Flood Plain
Storm Pipes	MS4 Areas	
Swale	Township Boundary	
Basin		

0 0.125 0.25 0.5 0.75 1
 1 Inch = 1/4 Mile

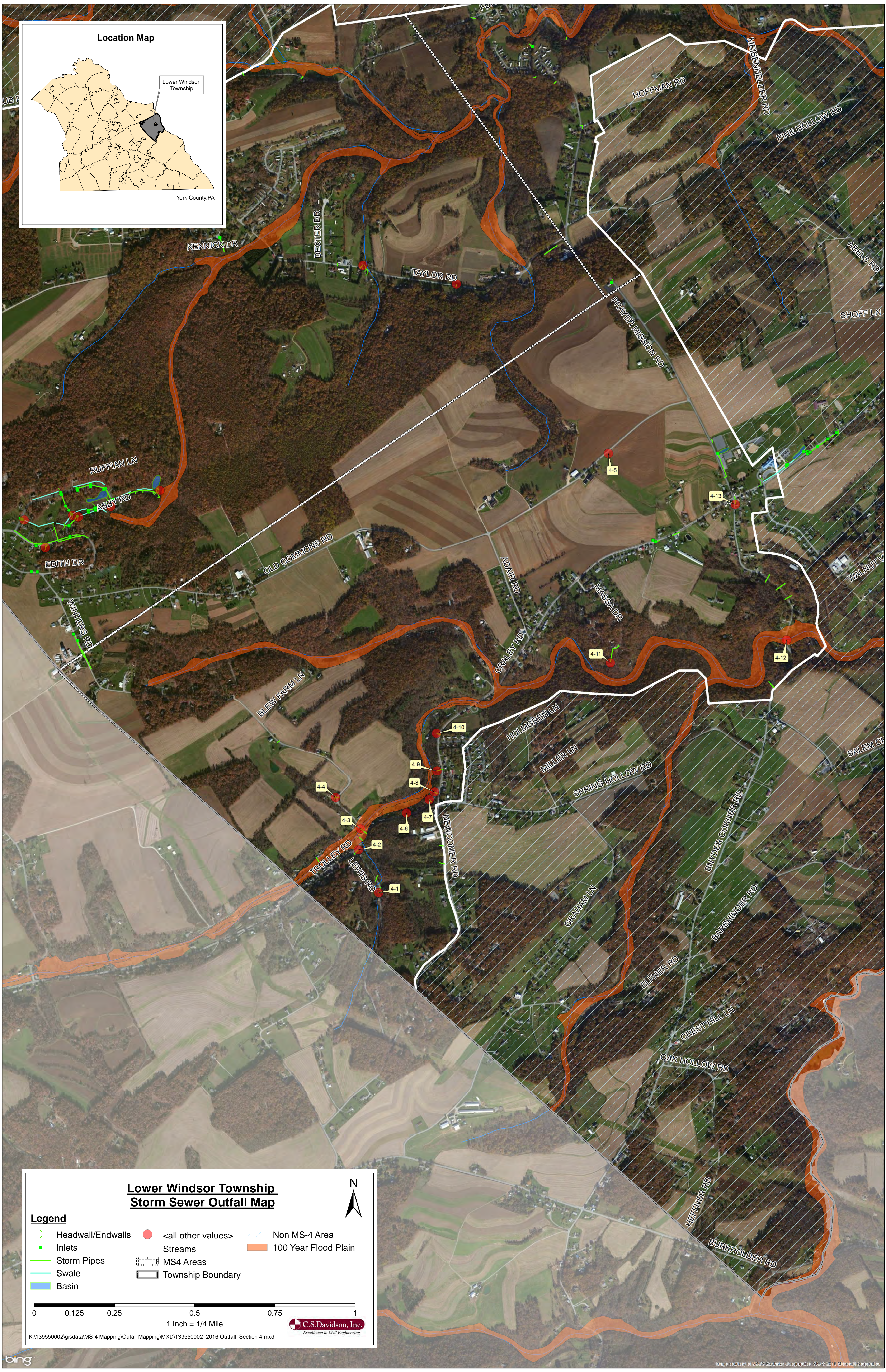
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Location Map



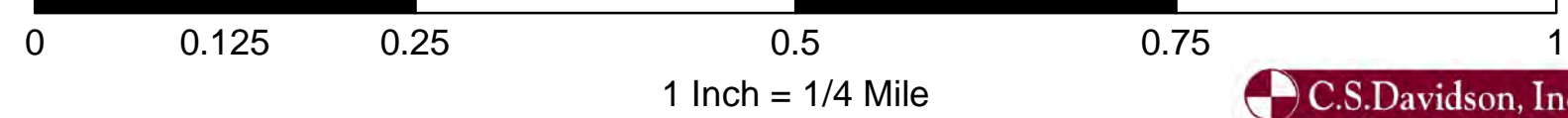
Lower Windsor Township
York County, PA



**Lower Windsor Township
Storm Sewer Outfall Map**

Legend

- Headwall/Endwalls
- <all other values>
- Non MS-4 Area
- Inlets
- Streams
- 100 Year Flood Plain
- Storm Pipes
- Swale
- MS4 Areas
- Township Boundary
- Basin



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OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID: <u>j-1</u>	
Today's date: <u>3-28-16</u>		Time (Military): <u>1215 hrs</u>	
Investigators: <u>Kyle & Casey</u>		Form completed by: <u>Casey</u>	
Temperature (°F): <u>64</u>	Rainfall (in.): Last 24 hours: <input type="radio"/> Last 48 hours: <input type="radio"/>		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #: <u>499</u>	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input checked="" type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>24"</u> In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	<i>(applicable when collecting samples)</i>			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<i>If No, Skip to Section 5</i>	
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

Unlikely
 Potential (presence of two or more indicators)
 Suspect (one or more indicators with a severity of 3)
 Obvious

Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool	
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID: <u>1-2</u>	
Today's date: <u>3/28/16</u>		Time (Military): <u>1224hs</u>	
Investigators: <u>Kyle & Casey</u>		Form completed by: <u>Casey</u>	
Temperature (°F): <u>64</u>	Rainfall (in.): Last 24 hours: <u>0</u> Last 48 hours: <u>0</u>		
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #: <u>500</u>	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input checked="" type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input checked="" type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>18</u> In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>If No, Skip to Section 5</i>	
Flow Description (if present)	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
	PARAMETER	RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
	Temperature		°F	Thermometer
	pH		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

Unlikely
 Potential (presence of two or more indicators)
 Suspect (one or more indicators with a severity of 3)
 Obvious

Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool	
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Cank dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID: <u>2-1</u>	
Today's date: <u>3/20/16</u>		Time (Military): <u>1235 hrs</u>	
Investigators: <u>Casy & Kyle</u>		Form completed by: <u>Casy</u>	
Temperature (°F): <u>64</u>	Rainfall (in.): Last 24 hours: <u>0</u>	Last 48 hours: <u>0</u>	
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #: <u>002 501</u>	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input type="checkbox"/> Suburban Residential	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known):			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>16</u>	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	<i>(applicable when collecting samples)</i>				
Flow Present?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
	PARAMETER	RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
	Temperature		°F	Thermometer
	pH		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

Unlikely
 Potential (presence of two or more indicators)
 Suspect (one or more indicators with a severity of 3)
 Obvious

Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool	
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID: <u>2-2</u>	
Today's date: <u>3/28/16</u>		Time (Military): <u>12 39 hrs</u>	
Investigators: <u>Kyle & Casey</u>		Form completed by: <u>Casey</u>	
Temperature (°F):	Rainfall (in.): Last 24 hours:	Last 48 hours:	
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #: <u>RMB 502</u>	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input type="checkbox"/> Suburban Residential	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known):			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>24</u>	In Water: <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS			
PARAMETER	RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Bottle
	Time to fill		
<input type="checkbox"/> Flow #2	Flow depth		Tape measure
	Flow width	____' ____"	Tape measure
	Measured length	____' ____"	Tape measure
	Time of travel		Stop watch
Temperature		°F	Thermometer
pH		pH Units	Test strip/Probe
Ammonia		mg/L	Test strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? Yes No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

Unlikely
 Potential (presence of two or more indicators)
 Suspect (one or more indicators with a severity of 3)
 Obvious

Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool	
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID: <u>2-3</u>	
Today's date: <u>3/25/16</u>		Time (Military): <u>1245 hrs</u>	
Investigators: <u>Casay - Kyle</u>		Form completed by: <u>Casay</u>	
Temperature (°F): <u>64</u>	Rainfall (in.): Last 24 hours: <input type="radio"/>	Last 48 hours: <input type="radio"/>	
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #: <u>5004</u> <u>503</u>	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>18'</u> In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	<i>(applicable when collecting samples)</i>			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>If No, Skip to Section 5</i>		
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
	PARAMETER	RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
	Temperature		°F	Thermometer
	pH		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

Unlikely
 Potential (presence of two or more indicators)
 Suspect (one or more indicators with a severity of 3)
 Obvious

Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool	
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID: <u>2-4</u>	
Today's date: <u>3/20/16</u>		Time (Military): <u>1246 hrs</u>	
Investigators: <u>Kyle & Casey</u>		Form completed by: <u>Casey</u>	
Temperature (°F): <u>67</u>	Rainfall (in.): Last 24 hours: <u>0</u>	Last 48 hours: <u>0</u>	
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:	Photo #: 504 <u>504</u>		
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial	<input type="checkbox"/> Open Space		
<input type="checkbox"/> Ultra-Urban Residential	<input type="checkbox"/> Institutional		
<input type="checkbox"/> Suburban Residential	Other: _____		
<input type="checkbox"/> Commercial	Known Industries: _____		
Notes (e.g., origin of outfall, if known):			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>18</u> In Water: <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If No, Skip to Section 5		
Flow Description (If present)	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume		Lite	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables - Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

Unlikely
 Potential (presence of two or more indicators)
 Suspect (one or more indicators with a severity of 3)
 Obvious

Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:		Outfall ID: <u>2-5</u>	
Today's date: <u>8/20/16</u>		Time (Military): <u>1252</u>	
Investigators: <u>Kyle & Casey</u>		Form completed by: <u>Casey</u>	
Temperature (°F): <u>64</u>	Rainfall (in.): Last 24 hours: <u>0</u>	Last 48 hours: <u>0</u>	
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:	Photo #: 505 <u>505</u>		
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
<input checked="" type="checkbox"/> Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>24</u> In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: _____ Top Width: _____ Bottom Width: _____	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If No, Skip to Section 5	
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
	PARAMETER	RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
	Temperature		°F	Thermometer
	pH		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

Section 6: Overall Outfall Characterization

Unlikely Potential (presence of two or more indicators) Suspect (one or more indicators with a severity of 3) Obvious

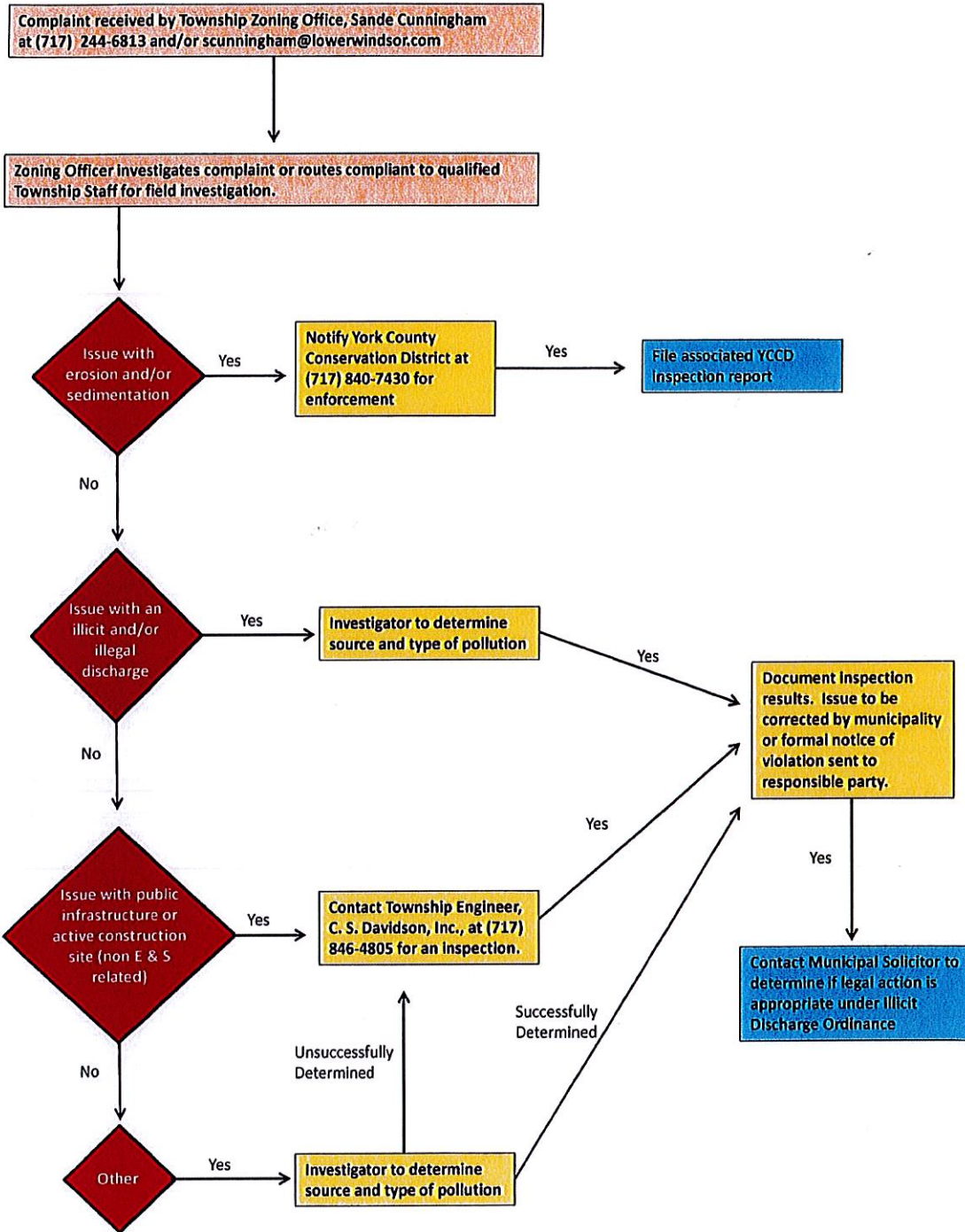
Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool	
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

Section 8: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?



LOWER WINDSOR TOWNSHIP PUBLIC COMPLAINTS PROTOCOL



STORMWATER COMPLAINTS TO MANAGER – MARCH 2015 – MARCH 2016

RESIDENT/COMPLAINANT	ADDRESS	COMPLAINT/ISSUE	RECTIFIED/DATE
Adams	917 Dallas Drive	<p>6/8/15 – Heather Adams contacted Mgr via email to advise that ‘people are throwing dog poop bags down the storm drain in front of her house.’ She doesn’t know who’s doing it and can’t supply additional information. We added a news article in the fall newsletter reminding residents that “Only rain goes down the drain.”</p>	Fall newsletter article
Small	1163 Trinity North	<p>6/22/15 - Complainant stopped by to complain to ZO and Mgr about neighboring property owner, Christine Klinedinst. Klinedinst has a stoned driveway and every time it rains, the stones are washed onto Trinity North, as well as the neighboring properties. ZO and Mgr contacted Chief Caldwell and Solicitor John Herrold to discuss what actions could be taken with property owner since it is a safety concern with Township roadway.</p> <p>6/26/15 – Mgr. went to Klinedinst property. No stones were on roadway. Found out that highway department cleaned them up.</p>	Could be ongoing. Have Road Master inspect area after rain storms.
Small	1163 Trinity North	<p>7/13/15 – Complainant stopped by again to complain about stones on roadway after weekend storm. Resident also complained about excessive stormwater discharging from Klinedinst property onto his. We advised resident that was a civil issue. Mgr & ZO sent letter to Ms. Klinedinst that she will be charged for cleaning road from now on since she has made no attempt to remedy the situation. Also advised her that she should try to rectify stormwater issue with Small property.</p>	<p>Letter sent 7/14 to Klinedinst. Letter sent 7/15 to Small. (copies in MS4 file) NOTE: There have been no further complaints about this since letter.</p>

STORMWATER COMPLAINTS TO MANAGER – MARCH 2015 – MARCH 2016

Henry	1043 Canadochly Road	<p>7/30/15 – Mr. Henry wants the curbing removed that the highway department recently installed on Canadochly Road. He stated that he wants the water to flow onto his field. We advised him that it was placed so that water would be directed to the creek. We advised him that if we remove it, we would not replace it again.</p>	Road Master and Mgr discussed this with Mr. Henry. Memo placed in property file and curbing will be removed.
Anonymous complaint to Mike Fetrow of York County Department of Emergency Services	Shalako Mobile Home Park	<p>11/18/15 – Mike Fetrow from York County Dept of Emergency Services discussed an issue with me regarding an anonymous complaint of dumping in/around the Shalako Mobile Home Park in Lower Windsor. Mike then sent the email to me and we referred the complaint to DEP. Noah Niedererr, DEP, conducted the inspection on 11/18 and a general inspection report was copied to LWT.</p>	DEP Action: cease unpermitted dumping, properly dispose of drilling materials on the ground, provide written response to DEP. Copy of DEP report in MS4 file.
Crothamel	634 Reisinger Avenue	<p>2/29/16 – Mr. Crothamel complained about a property located upslope (635 Reisinger) from his property which is located on the corner of Craley Road and Reisinger Ave. Mr. Crothamel stated that their sump pump water is draining down Reisinger and onto a property (a Chinese restaurant) across the street from his. Although the owner of the restaurant did not complain, he felt he had to. I explained that most of the runoff is melting snow as well as water from the severe thunderstorms over the weekend. Road Master and Engineer will take a look at it when they go out for road reviews on Friday, 3/4.</p> <p>Discussed with Zoning Officer since this was the 2nd time there was a complaint about 635 Reisinger. We will talk to the Board, but we first want to get an opinion from the engineer.</p>	Engineer and Road Master visited site on 3/4. They did not see the issues Mr. Crothamel complained about with the property upslope. Stones had been washed down by heavy rains and snow melt. Highway employees cleaned them up.

Zoning Officer Log of discussions about stormwater issues (April 1, 2015 thru March 31, 2016)

DATE	HOW CONTACTED	WHO SPOKE WITH
4/1/15	Email	JAK
4/2/15	Email	APS
4/7/15	Email	APS
4/16/15	Email	APS
4/17/15	Email	APS
4/20/15	Email	APS
4/22/15	Phone	APS
4/24/15	Email	APS
4/24/15	Email	APS
4/27/15	Email	APS
4/29/15	Email	APS
4/29/15	Email	APS
5/8/15	Email	APS
5/8/15	Phone	APS
5/8/15	Email	APS
5/19/15	Email	APS
5/27/15	Email	APS
5/29/15	Email	JAK
6/8/15	Email	APS
6/10/15	Email	APS
6/22/15	Email	APS
6/24/15	Email	APS
7/2/15	Email	APS
7/17/15	Phone	APS
7/23/15	Email	APS
7/23/15	Phone	APS
7/29/15	Phone	APS
7/30/15	Email	APS
8/18/15	Email	APS
8/18/15	Email	APS
8/26/15	Email	APS
9/3/15	Email	APS
9/8/15	Email	APS
9/9/15	Phone	APS
9/9/15	Email	APS
9/10/15	Email	APS
9/10/15	Phone	APS
9/11/15	Email	APS
9/17/15	Email	JAK
9/30/15	Email	APS
10/15/15	Email	APS
10/28/15	Email	APS
10/31/15	Email	APS

11/2/15	Email	APS
11/3/15	Email	JAK
11/3/15	Phone	APS
11/3/15	Email	JAK and APS
11/5/15	Email	APS
11/6/15	Email	APS
11/9/15	Email	APS
11/11/15	Email	APS
11/11/15	Phone	APS
11/16/15	Email	APS
11/16/15	Email	APS
11/17/15	Email	APS
11/17/15	Email	APS
11/18/15	Phone	APS
11/18/15	Email	APS
11/19/15	Email	APS
11/20/15	Email	APS
11/24/15	Email	APS
11/24/15	Phone	JAK
11/24/15	Email	APS
11/25/15	Email	APS
11/30/15	Email	JAK
12/1/15	Email	APS
12/3/15	Email	APS
12/3/15	Phone	APS
12/4/15	Email	APS
12/4/15	Email	APS
12/7/15	Email	APS
12/7/15	Phone	APS
12/9/15	Email	APS
12/10/15	Email	APS
12/14/15	Email	APS
12/15/16	Email	APS
12/16/15	Email	APS
12/16/15	Phone	APS
12/17/15	Email	APS
12/17/15	Email	APS
1/6/16	Email	APS
1/7/16	Email	APS
1/7/16	Phone	APS
1/8/16	Email	APS
1/18/16	Email	APS
1/29/16	Email	APS
2/24/16	Email	APS
2/24/16	Email	APS
3/1/16	Email	APS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

COPY
NOV 25 2015

GENERAL INSPECTION REPORT

Type of Inspection	WM Identification Number	Entry Time/Date	Exit Time/Date
Complaint Response	CTS# 316463	09:32 18 November 2015	10:45 18 November 2015
Facility/Incident Name and Location			Municipality
Shalako Mobile Home Park 70 Cheyenne Drive Windsor PA 17366			Lower Windsor Township
Name, Address of Responsible Official			County
Mr. Steve Luckenbill Brubacher Excavating, Inc. 825 Reading Road PO Box 528 Bowmansville PA 17507			York County
		Title	
		Directional Drill Supervisor	
		Telephone	Interviewed
		484.638.8071	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
REMARKS:			

On 11/18/2015, an unannounced inspection was completed at Shalako Mobile Home Park located in Lower Windsor Township, York County. The inspection was completed in response to a complaint alleging dumping of 200-300 gallons of "drilling fluid" onto the ground surface near an unnamed stream. Present from the Pennsylvania Department of Environmental Protection (Department) were Austin Pardoe (Clean Water) and Noah Niedererr (Waste Management). Present from Brubacher Excavating, Inc. (Brubacher) was Mr. Steve Luckenbill, Directional Drill Supervisor.

The Department inspectors arrived at the location described in the complaint. We observed a stream located south of Cheyenne Drive. There were no visible impacts to the stream in this area. Additionally, the Department observed employees of Brubacher working near the sewage treatment plant for the mobile home park. Mr. Luckenbill approached the Department inspectors and asked if he could assist. Mr. Pardoe explained that the Department received a complaint regarding dumping of material. Mr. Luckenbill led us to an embankment located southwest of 70 Cheyenne Drive. He explained that the owner of Mobile Home Park directed him to discharge the drilling material (water, bentonite, and soil/stone/other material removed during

Inspector Name	Inspector Signature	Headquarters	Date
Noah D. Niedererr		York District Office 150 Roosevelt Avenue Suite 200 York PA 17401-3381	11/23/2015
			Telephone 717-771-4476
Person Interviewed Name	Signature of Person Interviewed	Title	Telephone
	Mailed to Responsible Official		

This inspection report is notice of the findings of an inspection conducted by a representative of the Department. This report is formal notification of any violations observed during the inspection. Additional notification of violations may be issued concerning either violations noted herein, or other violations identified as a result of review of laboratory analyses or Department records.

This report does not constitute an order or other appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.

Signature by the person interviewed does not necessarily imply concurrence with the findings on this report, but does acknowledge that the person was shown the report or that a copy was left with the person.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WASTE MANAGEMENT

GENERAL INSPECTION REPORT

Facility/Incident Name and Location	Municipality
Complaint Response – Shakalo Mobile Home Park	Lower Windsor Township
Cheyenne Drive Windsor PA 17366	County
	York County

drilling) to the area. Upon recommendation by the Department, Mr. Luckenbill agreed to cease dumping of material, install silt fence between the material and the stream, and remove the material from the ground. Mr. Luckenbill explained that Brubacher owns a reclamation system for separation of liquids and solids. He stated that the water is reused and the solids are used as fill.

As a result of this inspection, the following violations of the Solid Waste Management Act, Act of July 9, 1980, P.L. 380, No. 97 as amended, 35 P.S. §§6018.101-6018.1003, were noted:

1. The dumping or depositing or permitting the dumping or depositing of any solid waste onto the surface of the ground by any means is a violation of Section 610(1).

The Department recommends the following actions to correct/abate the above-listed violation:

1. Immediately and moving forward cease the unpermitted dumping of any solid wastes onto the surface of the ground.
2. Within 14 days, remove and recycle or properly dispose of the drilling materials observed on the ground west of Cheyenne Drive.
3. Provide a written response to the Department detailing the method of recycling or disposal of materials generated from the directional drilling process.
4. Ensure that solids from the reclamation system are used in accordance with the Department's Management of Fill Final Guidance (Document # 258-2182-773) which is available online at www.elibrary.dep.state.pa.us under "Technical Guidance Final Documents".

Please contact the inspector at 717.771.4476 with any questions.

cc: Lower Windsor Township

bcc: SCRO File
YDD File
Inspector

Inspector Name	Inspector Signature	Date
Noah D. Niedererr	<i>Noah D. Niedererr</i>	11/23/2015



HANOVER LAND SERVICES, INC.

September 3, 2015

**Certified Mail
Return Receipt Requested**

Lower Windsor Township Board of Supervisors
2425 Craley Road
Wrightsville, PA 17368

RE: Rexroth Limited Partnership
General NPDES Permit for Stormwater Discharges

To whom it may concern:

This municipal notice is to inform you that we are applying for a General NPDES Permit for Stormwater Discharges Associated with Construction Activities from the Pennsylvania Department of Environmental Protection (DEP):

Project Name: Rexroth Limited Partnership

Applicant Contact: AET Consulting, Inc. – David Kann

Project Location: 1742 Winters Road, Windsor, PA 17366

Project Description: This project consists of the construction of an agriculture building, improvements, etc. on a 129 acre property

Acts 67, 68 and 127 of 2000 amended the Municipalities Planning Code (MPC) and directs state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specifies that state agencies may rely upon comprehensive plans and zoning ordinances under certain conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code.

Enclosed is a location map with the site indicated. If you wish to submit comments to DEP to become part of a land use review of this project, you must respond within 30 days to the DEP regional office and appropriate conservation district. If there are no land use comments received by the end of the comment period, DEP will assume that there are no substantive land use conflicts and proceed with the normal application review process.

For more information about this land use review process, visit DEP's Web site at www.depweb.state.pa.us, Keyword: "Land Use Reviews".

If you have any comments regarding this matter, please contact me at (717) 637-5674.

Sincerely,

Hanover Land Services, Inc.

A handwritten signature in black ink, appearing to read 'Kris D. Raubenstine', written in a cursive style.

Kris D. Raubenstine, Project Manager

HANOVER

585 McAllister Street, Hanover, PA 17331
Phone: 717.637.5674 Fax: 717.633.1987

WESTMINSTER

2001 Meadow Drive, Westminster, MD 21158
Phone: 410.857.0210



LOWER WINDSOR TOWNSHIP

Board of Supervisors

2425 CRALEY ROAD
WRIGHTSVILLE, PA 17368
(717) 244-6813 FAX: (717) 244-0746
www.LowerWindsor.com

July 15, 2015

Rodney Small
1163 Trinity North Road
Wrightsville, PA 17368

Re: Stormwater Complaint

Dear Mr. Small:

As a follow up to your visit to the Township office on Monday, July 13, 2015, please be advised that we sent Ms. Klinedinst a letter regarding the stones washing onto the roadway as well as the stormwater discharging onto your property.

Although the stormwater discharging onto your property is a civil issue between you and Ms. Klinedinst, we did advise her that it was her responsibility to rectify the situation.

Sincerely,

Maureen Hartman
Township Manager

cc: Sande Cunningham, Zoning Officer
File KL-29D



LOWER WINDSOR TOWNSHIP

Board of Supervisors

2425 CRALEY ROAD
WRIGHTSVILLE, PA 17368
(717) 244-6813 FAX: (717) 244-0746
www.LowerWindsor.com

July 14, 2015

Christine L. Klinedinst
1165 Trinity North Road
Wrightsville, PA 17368

Re: Tax Map Parcel 35000KL0018A000000
Lower Windsor Township, York County, PA

Dear Ms. Klinedinst:

Lower Windsor Township has been fielding numerous complaints from residents and the Township Road Master regarding the conditions of Trinity North Road due to stones washing from your driveway after heavy rains.

As in the past, our highway department has had to go out to that area and clean up the road in order to maintain safe roadway conditions for those that use Trinity North. If our highway department is called to remove stones from the road again, Lower Windsor Township will be submitting a statement to you for the cost of cleaning up the roadway.

Additionally, it's our understanding that an inordinate amount of stormwater runoff is discharging from your property onto the neighboring property located down slope from your driveway. Although this is a civil matter, we ask that you take responsibility and rectify this issue.

Sincerely,

Sande Cunningham
Zoning Officer

cc: Chief Timothy Caldwell, Lower Windsor Police Dept
Kim Miller, Road Master
Linda Zimmerman, Secretary/Treasurer
File KL-18A

MCM #4 Appendix

- **MCM #4 Project Plan**
- **BMP 4.1 Attachments**
 - Memorandum of Understanding with York County Conservation District
 - York County Conservation District Inspection Log

MCM #4 Project Plan

- BMP 4.1

Description:

Develop your program consisting of all procedures necessary to comply with the requirements of this MCM. Your program shall provide for construction stormwater permitting, construction inspection, and enforcement of installation and maintenance of the necessary E&S control measures. Your program shall describe clearly how your program will be coordinated with DEP's NPDES Construction Stormwater Permitting program.

Measurable Goal:

For new permittees, the written program for this MCM shall be developed during the first year of permit coverage; nevertheless, you are responsible for implementation of this MCM during entire term of this permit, including the time you are developing your program. For all permittees, your program shall be reviewed and updated during each year of permit coverage. The purpose of the written program is to establish clear roles and responsibilities for the implementation of the MCM #4 requirements. An agreement between the permittee, the CCD, and any other resources to be used by the permittee that clearly defines roles for each entity is recommended. If an agreement is made, you shall place and keep a written copy in your file, consistent with the Retention of Records requirements in this Permit. Please note that in accordance with Section A.2.h in Part A of the Authorization to Discharge, as the permittee you are responsible to ensure that implementation of all requirements under this Permit are fulfilled.

Action Plan:

Lower Windsor Township checked Option MCM #4.A in Section E(4) – (5) of the NOI. Therefore, they are relying on DEP's statewide QLP for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities to satisfy all requirements under this Minimum Control Measure.

The Township has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the Township. A record of all correspondence with the Conservation District is kept by the Township to document the District's activities.

Lower Windsor Township has a responsibility to ensure that adequate NPDES permitting and Erosion and Sedimentation Control Plans are in place, when applicable, prior to the issuance on a building permit. Additionally, upon request by the Conservation District, the Township will suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.

- BMP 4.2

Description:

The permittee shall enact, implement, and enforce an ordinance to require the implementation of erosion and sediment control BMPs, as well as sanctions to ensure compliance.

Measurable Goal:

Within the first year of coverage under the permit, new permittees shall enact and implement an ordinance that meets all applicable requirements of this permit. (Non-municipal permittees shall develop and implement an SOP). Permittees shall submit a letter signed by a municipal official, municipal engineer or the municipal solicitor as an attachment to their first periodic report certifying the enactment and implementation of a stormwater management ordinance that meets all requirements of this permit.

Action Plan:

Lower Windsor Township checked Option MCM #4.A in Section E(4) – (5) of the NOI. Therefore, they are relying on DEP’s statewide QLP for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities to satisfy all requirements under this Minimum Control Measure.

The Township has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the Township. A record of all correspondence with the Conservation District is kept by the Township to document the District’s activities.

Lower Windsor Township has a responsibility to ensure that adequate NPDES permitting and Erosion and Sedimentation Control Plans are in place, when applicable, prior to the issuance on a building permit. Additionally, upon request by the Conservation District, the Township will suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.

- BMP 4.3

Description:

Develop and implement requirements for construction site operators to control waste at the construction site that may cause adverse impacts to water quality. While sediment is the most common pollutant of concern for MCM #4, there are other types of pollutants that also can be a concern and the intent of this BMP is to address these other types of pollutants, such as, but not limited to, discarded building materials, washout from concrete trucks, chemicals, litter, and sanitary waste.

Measurable Goal:

New permittees shall establish requirements to address this BMP by the end of the first year of permit coverage. Renewal permittees shall continue to implement existing requirements and update as necessary. This could be implemented by written municipal ordinance/code provisions, by standard notes on the site plans, by any other written format that accomplishes the objectives of this BMP, or by any combination of these measures. The goal of this BMP shall be communicated to construction site operators during pre-construction meetings. This BMP shall be implemented during each year of the MS4 permit. Permittees must prepare and maintain records of site inspections, including dates and results and you must maintain these records in accordance with the Retention of Records requirements in this Permit.

Action Plan:

Lower Windsor Township checked Option MCM #4.A in Section E(4) – (5) of the NOI. Therefore, they are relying on DEP’s statewide QLP for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities to satisfy all requirements under this Minimum Control Measure.

The Township has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the Township. A record of all correspondence with the Conservation District is kept by the Township to document the District’s activities.

Lower Windsor Township has a responsibility to ensure that adequate NPDES permitting and Erosion and Sedimentation Control Plans are in place, when applicable, prior to the issuance on a building permit. Additionally, upon request by the Conservation District, the Township will

suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.

- BMP 4.4

Description:

Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public (to the permittee) regarding local construction activities. The permittee shall demonstrate acknowledgement and consideration of the information submitted, whether submitted verbally or in writing.

Measurable Goal:

Permittees shall establish and implement a tracking system to keep a record of any submitted public information as well as your response, actions, and results. This BMP shall be implemented during each year of coverage under this General Permit and information should be submitted with the each periodic report

Action Plan:

Lower Windsor Township checked Option MCM #4.A in Section E(4) – (5) of the NOI. Therefore, they are relying on DEP's statewide QLP for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities to satisfy all requirements under this Minimum Control Measure.

The Township has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the Township. A record of all correspondence with the Conservation District is kept by the Township to document the District's activities.

Lower Windsor Township has a responsibility to ensure that adequate NPDES permitting and Erosion and Sedimentation Control Plans are in place, when applicable, prior to the issuance on a building permit. Additionally, upon request by the Conservation District, the Township will suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.

**MEMORANDUM OF UNDERSTANDING (MOU)
Between the
YORK COUNTY CONSERVATION DISTRICT
and
LOWER WINDSOR TOWNSHIP**

This Memorandum has been prepared jointly and agreed upon by each party for the following purposes:

- To serve as a joint commitment by the signatory parties to control accelerated erosion and to prevent sediment pollution to the waters of the Commonwealth which may result from earth disturbance activities conducted in Lower Windsor Township.
- To serve as a joint commitment by the signatory parties to ensure Best Management Practices (BMPs) are implemented on the ground to protect, maintain, reclaim, and restore water quality and the existing and designated uses of waters of this Commonwealth located in Lower Windsor Township for the benefit of the Township's citizens and downstream water users.
- To serve as a basis for stating the role of each party in administering the Commonwealth of Pennsylvania's Title 25, Chapter 102 regulations and General (PAG-02) National Pollutant Discharge Elimination System (NPDES) permit for Stormwater Discharges from Construction Activities.
- To assist ^{Lower Windsor} ~~Manchester~~ Township in meeting its minimum control measures as required by federal PAG-13 permit for Stormwater Discharges from Small Separate Storm Sewer Systems (MS-4s). This MOU will serve to satisfy Minimum Control Measure #4 – Construction Site Runoff Control and will assist in satisfying Minimum Control Measure #5 – Post-Construction Stormwater Management in New Development and Redevelopment.
- To serve as a basis for stating the role of each party in administering the provisions of Lower Windsor Township Post-Construction Stormwater Management Ordinance #2003-06 with Amendment 2005-01 and Subdivision and Land Development Ordinance #78-1 with Amendments through April 29, 2004 as Ordinance 2004-04.

I. In carrying out the intent of this memorandum, the York County Conservation District (District) will:

A. E&S Plan Reviews / NPDES Permit Processing

- 1) Invite the Township engineer to all scheduled NPDES pre-application meetings. Attendance will be at the Township engineer's discretion.
- 2) Complete a technical review of all E&S plans proposing 1 acre or more of earth disturbance and determine if an NPDES permit is required. Initial technical reviews will be completed within 50 calendar days of receiving a complete plan submission. Additional technical reviews will be completed within 30 calendar days of receiving a complete revised plan submission.
- 3) Complete a technical review of all E&S plans proposing 5,000 square feet to 0.99 acres of earth disturbance when required by Township ordinance. The technical review will be completed within 50 calendar days of receiving a complete plan submission.

- 4) Conduct all technical E&S plan reviews in accordance with the District's delegation agreement with PA Department of Environmental Protection (DEP), current Chapter 102 regulations, and the most current PA DEP Erosion and Sediment Pollution Control Program Manual.
- 5) Provide the Township with courtesy copies of all administrative and technical plan review deficiency letters, E&S plan approval letters, and copies of the stamped approved E&S plans and final PCSM plans. Deficiency letters will be forwarded via email to the Township.
- 6) Provide the Township with an adequate supply of the District's "*Guide to Developing an Effective Erosion and Sediment Control Plan for Single Lot Projects.*"
- 7) Maintain an E&S Control webpage on the District's website (www.yorkccd.org) with all current E&S plan review and NPDES applications, District services fee schedule, useful links, and other information to assist applicants and plan preparers in preparing quality E&S & PCSM plans.
- 8) Conduct periodic educational workshops regarding erosion and sediment control and post construction stormwater management and invite representatives of the Township to attend.
- 9) Withhold issuance of a NPDES permit or major modification(s) to an existing NPDES permit until the Township's 30-day comment period has expired in accordance with Acts 67, 68, & 127 which amended the Municipalities Planning Code.
- 10) Conduct an administrative review of all PCSM plans requiring a NPDES permit within 20 calendar days of receipt of the plans. Any obvious technical/conceptual deficiencies will be brought to the Township engineer's attention and, if warranted, will be forwarded to DEP's Southcentral Region Office.
- 11) Request and receive a PCSM plan consistency/approval letter signed by the Township engineer for all NPDES permit applicants prior to issuing any general NPDES permits to ensure that the PCSM plan approved by the Township is the same as the PCSM plan submitted for the NPDES permit issued by the District.
- 12) Notify the Township of revisions to any PCSM plans submitted to the District after issuance of the NPDES permit.

B. Preconstruction Meetings, Complaint Investigations, & Site Inspections

- 1) Request that the developer and/or contractor invite the Township engineer, codes enforcement officer, or other Township representative to the preconstruction meeting for all NPDES-permitted sites. Email the Township engineer and/or codes enforcement officer informing him/her of all scheduled pre-construction meetings.
- 2) Investigate all erosion and sediment control (E&S) and stormwater-related complaints within 10 calendar days of receipt. Conduct periodic E&S follow-up inspections until violations have been corrected.
- 3) Refer all storm-water related complaints to the Township to determine compliance with the Township's stormwater management ordinance and/or MS-4 permit. Refer any stormwater complaints regarding post construction stormwater management (PCSM) BMPs required by the NPDES permit to the Region DEP office and copy the Township on any correspondence.
- 4) Refer all complaints involving waterway obstruction and encroachments (potential Chapter 105 violations) to DEP's Southcentral Region Office for resolution. (The District is *not* delegated to administer DEP's Chapter 105 program.)

- 5) Provide the Township with a copy of all inspection reports and site meeting correspondence within 14 calendar days of the date of inspection or site meeting. Correspondence will be forwarded via email.
- 6) Provide the Township with a copy of all NPDES copermitee/transferee acknowledgement letters.
- 7) Serve as a repository for all plans, complaints, inspection reports, correspondence, etc. that involve earth disturbance activities.
- 8) Conduct routine and follow-up compliance inspections of all NPDES-permitted sites striving to obtain voluntary compliance. Conduct at least one annual inspection of each NPDES-permitted site. Additional inspections will be conducted for priority sites as needed to ensure compliance with Chapter 102. Compliance will be based on conformance with the District-approved E&S plans and the minimum design criteria set forth by the most current PA DEP Erosion and Sediment Control Program Manual. Inspections will be documented on a DEP earth disturbance inspection report form.
- 9) Focus on compliance with the E&S plans during inspections however the District will also document any obvious (visual) violations/deficiencies with implementation of the PCSM plans and will bring to the attention of the Township and DEP Southcentral Region office.
- 10) Refer site(s) to DEP Southcentral Region Office for possible enforcement action when voluntary compliance with the E&S and PCSM plans can not be obtained.
- 11) Contact the Township engineer and/or codes enforcement officer to verify compliance with the PCSM plan prior to acknowledging any Notice of Terminations (NOT) for NPDES-permitted site.
- 12) Review the Township's Stormwater Management or Subdivision and Land Development Ordinance, at the Township's request, to determine consistency with current Chapter 102 regulations.

II. In carrying out the intent of this memorandum, Lower Windsor Township will:

- 1) Remind all citizens, builders, contractors, developers, and farmers that earth disturbance activities including clearing and grubbing of vegetation and construction of agricultural buildings, require implementation of erosion and sediment (E&S) control Best Management Practices (BMPs) and may require a written E&S plan. Refer them to the District for further guidance.
- 2) Provide the District's "*Guide to Developing an Effective Erosion and Sediment Control Plan for Single Lot Projects*", to building/grading permit applicants for projects proposing 5,000 square feet to 0.99 acres of earth disturbance. The guide is intended for low-hazard scattered single family residential lot construction and other small grading projects on non-NPDES permitted projects. It may not be used for commercial or industrial projects.
- 3) Withhold issuance of building and/or grading permit(s) for projects proposing 5,000 square feet to 0.99 acres of earth disturbance until the E&S plan has received District review and approval when such review and approval is required by Township ordinance. Notify the applicant (at the earliest possible date) that the District has up to 50 calendar days to review the E&S plans.
- 4) Will notify building permit applicants of the requirement to have an E&S plan reviewed and approved by the District. A District-approved E&S plan will be a required item on the Township's building permit application checklist.
- 5) If necessary, update the Township's Stormwater Management Ordinance, Subdivision and Land Development Ordinance (or) adopt an E&S ordinance requiring District review and approval of all

projects proposing 1 acre or more of earth disturbance (over the life of the project) so that the District can determine if an NPDES permit is required. *Phased project(s) initially proposing less than 1 acre of earth disturbance but which is part or portion of a larger common plan of development which will disturb 1 or more acres may also require an NPDES permit.*

- 6) Encourage applicants to meet with the District and Township engineer at the earliest possible date to discuss preliminary concept plans thereby avoiding costly delays and revisions due to plan designs that may meet Township requirements but fail to meet DEP requirements.
- 7) Notify the District within 10 calendar days of any PCSM plan revisions submitted to the Township after the District has issued the NPDES permit.
- 8) Conduct an engineering review and approval of all PCSM plans required by a NPDES permit to ensure that DEP water quality requirements are met and require any revisions to the PCSM plans be resubmitted to the District.
- 9) Invite District to any scheduled preconstruction meetings and/or scheduled inspections especially prior to Township adoption of the streets.
- 10) Will conduct during-construction and post-construction inspections to ensure compliance with implementation and long-term operation and maintenance of the PCSM BMPs in accordance with the PCSM plans.
- 11) Withhold:
 - issuance of any building or other permit or final land development plan approval to persons proposing or conducting earth disturbance activities requiring a NPDES permit until the District has approved coverage under the general NPDES Permit for Stormwater Discharges Associated With Construction Activities (as required by Chapter 102.43).
 - if permitted by law, issuance of any building or other permit to any building permit applicant until the Township has received a District copermittee acknowledgement letter from the building permit applicant (typically the builder) for any lot construction on NPDES-permitted sites (as required by Chapter 102.43). A District copermittee acknowledgement letter will be a required item on the Township's building permit application checklist.
 - if permitted by law, the issuance of any grading, building, or other permits *upon District request*, when a responsible party continually fails to voluntarily comply with Chapter 102 regulations as documented on two or more DEP earth disturbance inspection report forms for the site under consideration until complete compliance.
- 12) Forward all third party complaints to the District regarding earth disturbance activities causing sediment pollution to Waters of the Commonwealth or presenting a significant potential for sediment pollution. Inform the District of any earth disturbance projects that have commenced without receiving E&S plan and/or NPDES permit approval.
- 13) Take the lead on all stormwater complaints (that do not involve earth disturbance activities) and, where applicable, work with the District to bring resolution.
- 14) Voluntarily comply with Chapter 102/NPDES requirements for all Township earth disturbance activities.
- 15) Provide the District with copies of all current E&S/PCSM/SALDO ordinances upon District request to ensure consistent application of requirements and avoid duplication of effort.
- 16) Provide enforcement support when the permittee(s) has failed to voluntarily comply with the approved PCSM plans.

III. This Memorandum of Understanding shall become effective immediately. It shall be reviewed periodically, as the need arises by either or both parties, and may be amended by mutual consent of both parties. This MOU may be terminated at any time, by either party, following a 30 day written notice to the other party.

FOR LOWER WINDSOR TOWNSHIP

Mary Caldwell
CHAIRMAN, BOARD OF SUPERVISORS

12/13/2010
DATE

FOR THE YORK COUNTY CONSERVATION DISTRICT

Paul Dehoff
CHAIRMAN, BOARD OF DIRECTORS

1-14-11
DATE

MCM #5 Appendix

- **MCM #5 Project Plan**
- **BMP 5.4 Attachments**
 - Stormwater Ordinance Adoption Notice
 - Lower Windsor Township Stormwater Ordinance 2012-03
 - Lower Windsor Township CBPRP Ordinance 15-02
- **BMP 5.5 Attachments**
 - Stormwater Consortium Project Submittal August 2015
- **BMP 5.6 Attachments**
 - Structural BMP Inventory
 - BMP Map
 - Stormwater Operation and Maintenance and Right of Way Agreements
 - BMP Field Inspections

MCM #5 Project Plan

- BMP 5.1

Description:

Develop a written procedure that describes how the permittee shall address all required components of this MCM. Guidance could be found in the Pennsylvania Stormwater Best Management Practices Manual.

Measurable Goal:

The written procedure shall be developed by the end of the first year of permit coverage and be reviewed and updated every permit year thereafter, as needed. The intent of BMP #1 is for the permittee to describe how the listed tasks will be accomplished.

Action Plan:

The Township has selected to rely on DEP's statewide program for issuing NPDES Permits for stormwater discharges associated with construction activities to satisfy all requirements under BMPs #1 through #3. The Township has executed a Memorandum of Understanding with the York County Conservation District to outline the roles and responsibilities shared by each group.

- BMP 5.2

Description:

Require the implementation of a combination of structural and/or non-structural BMP's that are appropriate to the local community, that minimize water quality impacts, and that are designed to maintain pre-development runoff conditions. This requirement can be met by ensuring that the selected BMPs comply with the municipal Stormwater Management Ordinance that meets the requirements of the permit.

Measurable Goal:

All qualifying development or redevelopment projects shall be reviewed to ensure that their post-construction stormwater management plans and selected BMPs conform to the applicable requirements. A tracking system (e.g., database, spreadsheet, or written list) shall be maintained to record qualifying projects and their associated BMPs. In your records, you shall note if there are no qualifying projects in a calendar year.

Action Plan:

The Township has selected to rely on DEP's statewide program for issuing NPDES Permits for stormwater discharges associated with construction activities to satisfy all requirements under BMPs #1 through #3. The Township has executed a Memorandum of Understanding with the York County Conservation District to outline the roles and responsibilities shared by each group.

- BMP 5.3

Description:

Ensure that controls are installed that shall prevent or minimize water quality impacts.

Measurable Goal:

All qualifying development or redevelopment projects shall be inspected during the construction phase to ensure proper installation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall be implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were not, installed properly). Permittees not relying on DEP's statewide QLP to satisfy requirements under this BMP shall summarize construction inspections and results in periodic reports. See BMP #6 for requirements related to post-construction inspection and tracking of PCSM BMPs to ensure that the operation and maintenance plan is being implemented.

Action Plan:

The Township has selected to rely on DEP's statewide program for issuing NPDES Permits for

stormwater discharges associated with construction activities to satisfy all requirements under BMPs #1 through #3. The Township has executed a Memorandum of Understanding with the York County Conservation District to outline the roles and responsibilities shared by each group.

- BMP 5.4

Description:

The permittee shall enact, implement, and enforce an ordinance (municipal) or SOP or other regulatory mechanism (non-municipal) to address post-construction stormwater runoff from new development and redevelopment projects, as well as sanctions and penalties associated with non-compliance, to the extent allowable under State or local law.

Measurable Goal:

Within the first year of coverage under this permit, new permittees shall enact and implement a stormwater management ordinance (municipal) or SOP (non-municipal) that meets the requirements of this General Permit. All permittees shall submit a letter signed by a municipal official, municipal engineer or the municipal solicitor as an attachment to their first periodic report certifying the enactment of a stormwater management ordinance that meets the requirements of this General Permit.

Action Plan:

The Township adopted an ordinance consistent with the York County Model Act 167 Ordinance on June 14, 2012. The approval process is summarized as follows:

i) Subdivision and land development submittals are reviewed by the Township Engineer for stormwater management compliance. The Engineer issues comments to the Township Planning Commission and Board of Supervisors for their consideration and approval. It is the Zoning Officer's responsibility to ensure all comments are addressed prior to final plan approval and permit issuance. The Township Engineer recommends the establishment of financial security to the Township Supervisors and provides construction inspection for plans requiring stormwater management facilities.

ii) Projects not requiring a land development submittal, which propose to install 1,000 ft² of impervious area or greater, require the submission of a stormwater management site plan. The Township Engineer reviews these plans and issues comments to the Zoning Officer. The Zoning Officer ensures all comments are addressed prior to authorizing the issuing of a permit.

iii) Projects not requiring a land development submittal, which propose 999 ft² of impervious area or less are reviewed and approved internally by the Zoning Department through the Township's Small Projects process.

- BMP 5.5

Description:

Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new and redevelopment. Measures also should be included to encourage retrofitting LID into existing development. DEP's Pennsylvania Stormwater Best Management Practices Manual provides guidance on implementing LID practices.

Measurable Goal:

In your inventory of development and redevelopment projects authorized for construction since March 10, 2003, that discharge stormwater to your regulated MS4s, indicate which projects incorporated LID practices and for each project list and track the BMPs that were used. Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices. Progress with enacting and updating your ordinances to enable the use of LID practices shall be summarized in the periodic reports.

Action Plan:

Article IV of the Township's Zoning Ordinance contains requirements to promote Low Impact Development. The "Conservation by Design" requirements restrict the amount of land which may be developed within the conservation overlay. This method promotes clustered development to preserve natural and agricultural land. The Township also adopted an ordinance consistent with the York County Model Act 167 Stormwater Ordinance on June 14, 2012 which contains multiple requirements related to LID and the protection of natural features.

- i) Specifically, Section 937.01.H.3 requires developers: To the maximum extent practicable, incorporate the techniques for Low Impact Development Practices described in the Pennsylvania Stormwater Best Management Practices Manual (BMP Manual).
- ii) The Stormwater Management Ordinance also requires the protection of natural features such as floodplains, wetlands, wooded areas, and existing vegetation.

- **BMP 5.6**

Description:

Ensure adequate operation and maintenance of all post-construction stormwater management BMPs installed at all qualifying development or redevelopment projects (including those owned or operated by permittee).

Measurable Goal:

Within the first year of coverage under this permit, new permittees shall develop and implement a written inspection program to ensure that stormwater BMPs are properly operated and maintained. The program shall include sanctions and penalties for non-compliance. All permittees shall review and update the inspection program annually and shall continue to implement this BMP. An inventory of PCSM BMPs shall be developed by permittees and shall be continually updated during the term of coverage under the permit as development projects are reviewed, approved, and constructed. This inventory shall include all PCSM BMPs installed since March 10, 2003 that discharge directly or indirectly to your regulated small MS4s. The inventory also should include PCSM BMPs discharging to the regulated small MS4 system that may cause or contribute to violation of water quality standard. The inventory shall include:

- all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003
- the exact location of the PCSM BMP (e.g., street address)
- information (e.g., name, address, phone number(s)) for BMP owner and entity responsible for BMP Operation and Maintenance (O&M), if different from BMP owner
- the type of BMP and the year it was installed
- maintenance required for the BMP type according to the Pennsylvania Stormwater BMP Manual or other manuals and resources
- the actual inspection/maintenance activities for each BMP
- an assessment by the permittee if proper operation and maintenance occurred during the year and if not, what actions the permittee has taken, or shall take, to address compliance with O&M requirements

Action Plan:

1) **Written Inspection Program**

The Township began inventorying and inspecting BMPs during the 2011-2012 permit year. At that time, the Township Engineer performed an inspection of all known BMPs and issued violation letters to those owners of facilities which required corrective action. The Township worked with a majority of these property owners to correct these issues. During the 2012-2013 permit year, additional BMPs were added to the inventory as they were discovered in the field and were also inspected for compliance. The Township continues to work with these owners through follow-up inspections to bring all BMPs installed within the Township's MS4 Area into compliance. Once the Township has achieved compliance across all known BMPs which have been installed since 2003, the following inspection protocol will be followed:

i) All PCSM BMPs will be inspected by the Township Engineer at least once in a four year period. The BMP inspections will be divided into the same four inspection areas that the MCM 3 illicit discharge inspections are utilizing.

ii) The field inspector utilizes a BMP inspection form to certify the inspection occurred and document any deficiencies observed at that time. Photos are also taken to include with these reports.

iii) The Township will notify each property owner that an inspection has occurred of their BMP. This letter shall include any deficiencies noted during the inspection and require the owner to remediate these issues within a given amount of time.

iv) The Township will perform a follow up inspection of all deficient BMPs upon notification from the owner that all items have been corrected. Steps ii through iv will be repeated until the BMP is deemed compliant.

v) In the event a BMP owner does not comply with the Township's request to correct noted deficiencies, their Solicitor will be consulted to aid in enforcement action against this owner. The type of enforcement action may vary dependent upon the Solicitor's guidance.

vi) All records collected during the inspection process are reported to DEP through each annual report process and uploaded to the GIS system for tracking purposes.

2) Inventory of PCSM BMPs

The Township utilizes a GIS based inventory system to track PCSM BMPs. Within this system, all inspection and compliance records are stored in addition to the above required information.

i) The Township utilizes the release of public security for stormwater management BMPs as the trigger to add a BMP to the post construction inventory from the construction inventory. The release of security acts as the Township's final approval of a BMP to certify that it was constructed per the approved plan. Any BMP for which the Township has not yet released security for, is not considered complete and is not inspected as part of this minimum control measure.

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June 28, 2016

Mr. Scott Williamson
Pennsylvania Department of Environmental Protection
Southcentral Regional Office
909 Elmerton Avenue
Harrisburg, PA 17109

Re: Act 167 Stormwater Management Ordinance Adoption
Lower Windsor Township, York County, PA
Engineer's File No. 1395.5.00.02

Dear Mr. Williamson:

In the event notification has not been previously provided, please allow this letter to serve as official correspondence that Lower Windsor Township adopted the following Stormwater Management Ordinances:

- Ordinance No. 2012-03 Adopted June 14, 2012
- Ordinance No. 15-02 Adopted February 12, 2015

Ordinance No. 2012-03 is consistent with the requirements of the York County Act 167 Model Stormwater Management Ordinance. Copies of both of these ordinances are attached for your records.

If you have any questions, please contact me at the number above.

Sincerely,

C.S. Davidson, Inc.



Derek J. Rinaldo, E.I.T.

DJR/cmd
Copy: File

STORMWATER MANAGEMENT ORDINANCE

ORDINANCE NO. 2012-03

TOWNSHIP OF LOWER WINDSOR

YORK COUNTY, PENNSYLVANIA

Adopted

June 14, 2012

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ARTICLE I - GENERAL PROVISIONS

Section 101. Short Title

This Ordinance shall be known and may be cited as the "Lower Windsor Township Stormwater Management Ordinance."

Section 102. Statement of Findings

The Board of Supervisors of Lower Windsor Township finds that:

- A. The proper management of stormwater runoff is the responsibility of the property owner or developer.
- B. Inadequate management of accelerated runoff of stormwater resulting from development throughout a watershed increases flows and velocities, contributes to erosion and sedimentation, overtakes the carrying capacity of streams and storm sewers, greatly increases the cost of public facilities to carry and control stormwater, undermines flood plain management and flood control efforts in downstream communities, reduces groundwater recharge, threatens public health and safety, and increases non-point source pollution of water resources.
- C. A comprehensive program of stormwater management, including reasonable regulation of development and activities causing accelerated runoff, is fundamental to the public health, safety, and welfare and the protection of people of the Commonwealth, their resources, and the environment.
- D. Stormwater is an important water resource, which provides groundwater recharge for water supplies and base flow of streams, which also protects and maintains surface water quality.
- E. Federal and state regulations require certain municipalities to implement a program of stormwater controls. These municipalities are required to obtain a permit for stormwater discharges from their separate storm sewer systems under the National Pollutant Discharge Elimination System (NPDES).

Section 103. Purpose

The purpose of this Ordinance is to promote health, safety, and welfare within the Township and its watershed(s) by minimizing the harm and maximizing the benefits described in Section 102 of this Ordinance, through provisions designed to:

- A. Meet legal water quality requirements under state law, including regulations at 25 Pa. Code 93 to protect, maintain, reclaim, and restore the existing and designated uses of the waters of this Commonwealth.
- B. Preserve the natural drainage systems as much as possible.
- C. Manage stormwater runoff close to the source.

- D. Provide procedures and performance standards for stormwater planning and management.
- E. Maintain groundwater recharge to prevent degradation of surface and groundwater quality and to otherwise protect water resources.
- F. Prevent scour and erosion of stream banks and stream beds.
- G. Provide proper operation and maintenance of all SWM BMPs that are implemented within the Township.
- H. Provide standards to meet NPDES permit requirements.

Section 104. Statutory Authority

A. Primary Authority:

The Township is empowered to regulate land use activities that affect stormwater impacts by the authority vested in Second Class Townships by the Second Class Township Code, 53 P.S. §65101 through §67201, and the Act of October 4, 1978, P.L. 864 (Act 167), 32 P.S. Section 680.1, et seq., as amended, the "Stormwater Management Act."

B. Secondary Authority:

The Township is also empowered to regulate land use activities that affect runoff by the authority of the Act of July 31, 1968, P.L. 805, No. 247, The Pennsylvania Municipalities Planning Code, as amended.

Section 105. Applicability

All regulated activities and all activities that may affect stormwater runoff, including land development and earth disturbance activity, are subject to regulation by this Ordinance. Article VII, Detection and Elimination of Illicit Discharges to the Municipal Separate Storm Sewer System, shall be applicable to all water entering the storm drain system of the Township generated on any developed and undeveloped lands unless explicitly exempted by the Township.

Section 106. Repealer

Any other ordinance provision or regulation of the Township inconsistent with any of the provisions of this Ordinance is hereby repealed to give this Ordinance full force and effect to the extent of the inconsistency only. Lower Windsor Township Ordinance No. 2003-06, entitled Lower Windsor Township Stormwater Management Ordinance, as amended, is hereby repealed in its entirety.

Section 107. Severability

In the event that a court of competent jurisdiction declares any section, clause or provision of this Ordinance invalid, such decision shall not affect the validity of any of the remaining sections, clauses or provisions of this Ordinance.

Section 108. Compatibility with Other Permit and Ordinance Requirements

Permits and approvals issued pursuant to this Ordinance do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act or ordinance. If more stringent requirements concerning regulation of stormwater or erosion and sedimentation control are contained in another code, rule, act or ordinance, the more stringent regulations shall apply.

Section 109. Interpretation

Unless otherwise expressly stated, the succeeding shall, for the purposes of this Ordinance, be interpreted in the following manner:

- A. Words used in the present tense also imply the future tense.
- B. Words used in the singular imply the plural, and vice versa.
- C. Words of masculine gender include feminine gender, and vice versa.
- D. The words and abbreviation “includes,” “including,” “shall include,” “such as,” and “e.g.” are not limited to the specific example(s) given but are intended to extend the word’s or words’ meaning(s) to all other instances of like kind and character.
- E. The words “person”, “applicant”, or “developer” include, a partnership, corporation, or other legal entity, as well as an individual.
- F. The words “shall”, “required”, or “must” are mandatory; the words “may” and “should” are permissive.

Section 110. Erroneous Permit

Any exemption, permit or authorization issued or approved based on false, misleading or erroneous information provided by an applicant is void without the necessity of any proceedings for revocation. Any work undertaken or use established pursuant to such permit or other authorization is unlawful. No action may be taken by a board, agency or employee of the Township purporting to validate such a violation.

ARTICLE II - DEFINITIONS

Section 201. Terms Defined

As used in this Ordinance, the following terms shall have the following meanings:

Act 167 - Act of October 4, 1978, P.L.864, (Act 167), as amended, and known as the "Stormwater Management Act".

Agricultural Activity - Activities associated with agriculture such as, but not limited to, agricultural cultivation, agricultural operations, and animal heavy use areas. This includes the work of producing crops including tillage, land clearing, plowing, disking, harrowing, planting, harvesting crops or pasturing and raising of livestock and installation of conservation measures. Construction of new buildings or impervious area is not considered an agricultural activity.

Applicant - A landowner, developer, or other person who has filed an application to the Township for approval to engage in any regulated activity at a project site in the Township.

Best Management Practice (BMP) - Activities, facilities, designs, measures, or procedures used to manage stormwater impacts from regulated activities, to meet state water quality requirements, to promote groundwater recharge, and to otherwise meet the purposes of this Ordinance. Stormwater BMPs are commonly grouped into one of two broad categories or measures: "structural" or "nonstructural." In this Ordinance, nonstructural BMPs or measures refer to operational and/or behavior-related practices that attempt to minimize the contact of pollutants with stormwater runoff whereas structural BMPs or measures are those that consist of a physical device or practice that is installed to capture and treat stormwater runoff. Structural BMPs include, but are not limited to, a wide variety of practices and devices, from large-scale retention ponds and constructed wetlands, to small-scale underground treatment systems, infiltration facilities, filter strips, low impact design, bioretention, wet ponds, permeable paving, grassed swales, riparian or forested buffers, sand filters, detention basins, and manufactured devices. Structural stormwater BMPs are permanent appurtenances to the project site.

BMP Manual - Pennsylvania Stormwater Best Management Practices Manual, as amended and updated.

Clean Water Act - The Federal Water Pollution Control Act, 33 U.S.C. §1251 *et seq.*, and any subsequent amendments thereto.

Conservation District - The York County Conservation District, which District is as defined in Section 3(c) of the Conservation District Law (3 P. S. § 851(c)) that has the authority under a delegation agreement executed with DEP to administer and enforce all or a portion of the regulations promulgated under 25 Pa. Code 102.

Construction Activity - activities subject to NPDES construction permits. NPDES Storm Water Phase II permits will be required for construction projects resulting in land disturbance of one acre or more. Such activities include but are not limited to clearing and grubbing, grading, excavating and demolition.

County - York County Pennsylvania

Culvert – A structure which carries surface water through an obstruction.

Dam - An impoundment structure regulated by the Pennsylvania DEP Chapter 105. regulations.

DEP - The Pennsylvania Department of Environmental Protection.

Design Storm - The magnitude and temporal distribution of precipitation from a storm event measured in probability of occurrence, e.g., a 5-year storm, and duration, e.g., 24 hours, used in the design and evaluation of stormwater management systems. Also see Return Period.

Developer - Any person, partnership, association, corporation or other entity, or any responsible person therein or agent thereof, that undertakes any Regulated Activity.

Detention Basin - A structure designed to retard stormwater runoff by temporarily storing and releasing the runoff at a predetermined rate.

Detention Volume - The volume of runoff that is captured and released into the waters of the Commonwealth at a controlled rate.

Development Site (Site) - See Project Site.

Disconnected Impervious Area (DIA) - An impervious or impermeable surface that is disconnected from any stormwater drainage or conveyance system and is redirected or directed to a pervious area, which allows for infiltration, filtration, and increased time of concentration as specified in Appendix B. Disconnected Impervious Area of this Ordinance.

Disturbed Area - An unstabilized land area where an earth disturbance activity is occurring or has occurred.

Down-slope Property Line – That portion of a property line of a lot or parcel of land being developed located such that overland or pipe flow from the development site would be directed toward it.

Drainage Conveyance Facility – A stormwater management facility designed to transmit stormwater runoff, including but not limited to, streams, channels, swales, pipes, conduits, culverts and storm sewers.

Drainage Easement – A limited right of use granted in private land, allowing the use of private land for stormwater management purposes, where in no structure may be constructed.

Earth Disturbance Activity - A construction or other human activity which disturbs the surface of the land, including, but not limited to: clearing and grubbing; grading; excavations; embankments; road maintenance; building construction; and the moving, depositing, stockpiling, or storing of soil, rock, or earth materials.

Erosion - The natural process by which the surface of the land is worn away by water, wind, or chemical action.

E & S Manual - Erosion and Sediment Pollution Control Manual, as amended and updated.

Erosion and Sediment Control Plan - A site specific plan consisting of both drawings and a narrative that identifies BMPs to minimize accelerated erosion and sedimentation before, during and after earth disturbance activity.

Existing Condition - The dominant land cover during the 5-year period immediately preceding a proposed regulated activity.

FEMA - Federal Emergency Management Agency.

Floodplain - Any land area susceptible to inundation by water from any natural source as delineated by applicable FEMA maps and studies as being a special flood hazard area.

Floodway - The channel of the watercourse and those portions of the adjoining floodplains that are reasonably required to carry and discharge the 100-year flood. Unless otherwise specified, the boundary of the floodway is as indicated on maps and flood insurance studies provided by FEMA. In an area where no FEMA maps or studies have defined the boundary of the 100-year floodway, it is assumed, absent evidence to the contrary, that the floodway extends from the stream to 50 feet from the top of the bank of the stream.

Forest Management/Timber Operations - Planning and activities necessary for the management of forest land. These include conducting a timber inventory, preparation of forest management plans, silvicultural treatment, cutting budgets, logging road design and construction, timber harvesting, site preparation, and reforestation.

Groundwater Recharge - Replenishment of existing natural underground water supplies.

Hazardous Materials/Substances - Any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

Hydrologic Soil Group (HSG) - Infiltration rates of soils vary widely and are affected by subsurface permeability as well as surface intake rates. Soils are classified into four HSGs (A, B, C, and D) according to their minimum infiltration rate, which is obtained for bare soil after prolonged wetting. The NRCS defines the four groups and provides a list of most of the soils in the United States and their group classification. The soils in the area of the development site may be identified from a soil survey report that can be obtained from local NRCS offices or conservation district offices. Soils become less pervious as the HSG varies from A to D (NRCS 3,4).

IWRP - The York County Integrated Water Resources Plan, which Plan includes Act 167 Plan elements and requirements.

Illicit Connections – An illicit connection is defined as either of the following:

- (1) Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system and/or Waters of the Commonwealth including but not limited to any conveyances which allow any non-stormwater discharge including sewage, process wastewater, and wash water to enter the storm drain system and any connections to the storm drain system and/or Waters of the Commonwealth from indoor drains and sinks, regardless of whether said drain or connections had been previously allowed, permitted, or approved by an authorized enforcement agency; or
- (2) Any drain or conveyance connected from a commercial or industrial land use to the storm drain system and/or Waters of the Commonwealth which has not been documented in plans, maps, or equivalent records and approved by an authorized enforcement agency.

Illegal Discharge - Any direct or indirect non-storm water discharge to the storm drain system.

Impervious Surface (Impervious Area) - A surface that prevents the infiltration of water into the ground. Impervious surfaces and areas shall include, but not be limited to, roofs, additional indoor living spaces, patios, garages, storage sheds and similar structures, and any new streets and sidewalks. However, any surface or area designed, constructed and maintained to permit infiltration as specified herein shall be considered pervious, not impervious. For the purposes of this Ordinance, a surface or area shall not be considered impervious if such surface or area does not diminish the capacity for infiltration of stormwater for storms up to, and including, a two (2)-year 24-hour storm event.

Industrial Activity - Activities subject to NPDES industrial permits as defined in 40 CFR §122.26(b)(14).

Infiltration - The entrance of surface water into the soil, usually at the soil-air interface.

Infiltration Structures – A structure designed to direct runoff into the ground (e.g. french drains, seepage pits, seepage trench).

Karst - A type of topography or landscape characterized by surface depressions, sinkholes, rock pinnacles/uneven bedrock surface, underground drainage, and caves. Karst landscapes are formed on carbonate rocks, such as limestone or dolomite.

Land Development - Shall include any of the following activities:

- A. The improvement of one lot or two or more contiguous lots, tracts, or parcels of land for any purpose involving:
 1. a group of two (2) or more residential or nonresidential buildings, whether proposed initially or cumulatively, or a single nonresidential building on a lot or lots regardless of the number of occupants or tenure; or
 2. the division or allocation of land or space between or among two (2) or more existing or prospective occupants by means of, or for the purpose of streets, common areas, leaseholds,

condominiums, building groups, or other features.

B. A subdivision of land.

C. Development in accordance with Section 503(1.1) of the Pennsylvania Municipalities Planning Code.

Municipality/Township - Lower Windsor Township, York County, Pennsylvania.

MS4 – Municipal Separate Storm Sewer System

National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit means a permit issued by EPA (or by DEP under authority delegated pursuant to 33 USC § 1342(b)) that authorizes the discharge of pollutants to waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

Non-Stormwater Discharge – Any discharge to the storm drain system and/or Waters of the Commonwealth that is not composed entirely of stormwater.

NPDES - National Pollution Discharge Elimination System

NRCS - USDA Natural Resources Conservation Service (previously SCS).

O & M - Operation and Maintenance

O & M Plan - Operation and Maintenance Plan

PCSWMP - Post-Construction Stormwater Management Plan

Peak Discharge - The maximum rate of stormwater runoff from a specific storm event.

Percolation - The downward movement, under the influence of gravity, of water under hydrostatic pressure through interstices of the soil or rock.

Person – An individual, partnership, public or private association or corporation, firm, trust, estate, Township, governmental unit, public utility or any other legal entity whatsoever. Whenever used in any section prescribing or imposing a penalty, the term “person” shall include the members of a partnership, the officers, agents and servants of a corporation and the officers of a Township.

Pervious Area - Any area not defined as impervious.

Pollutant – Anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter, or other discarded or abandoned objects, ordinances, and accumulations, so that may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a

building or structure; and noxious or offensive matter of any kind.

Premises – Any building, lot, parcel of land, or portion of land, whether improved or unimproved, including adjacent sidewalk and parking strips.

Project Site - The specific area of land where any regulated activities in the Township are planned, conducted, or maintained.

Qualified Person - Any person licensed by the State of Pennsylvania or otherwise qualified by law to perform the work required by this Ordinance.

Regulated Activities - Any earth disturbance activities or any activities that involve the alteration or development of land in a manner that may affect stormwater runoff.

Regulated Earth Disturbance Activity - Activity involving earth disturbance subject to regulation under 25 Pa. Code 92, 25 Pa. Code 102, or the Clean Streams Law.

Retention Basin - An impoundment in which stormwater is stored and not released during a storm event. Stored water may be released from the basin at some time after the end of a storm.

Retention Volume/Removed Runoff - The volume of runoff that is captured and not released directly into the surface waters of this Commonwealth during or after a storm event.

Return Period - The average interval, in years, within which a storm event of a given magnitude can be expected to occur one time. For example, the 25-year return period rainfall would be expected to occur on average once every 25 years; or stated in another way, the probability of a 25-year storm occurring in any one year is 0.04, i.e., a 4% chance.

Riparian Buffer - A Best Management Practice that is an area of permanent vegetation along surface waters. (Such areas serve as natural vegetative filters between upland landscapes and waterways.)

Riser – A vertical pipe extending from the bottom of a pond or other water impoundment that is used to control the discharge rate from the pond or impoundment for a specified design storm.

Rooftop Detention – Temporary ponding and gradual release of stormwater falling directly onto roof surface by incorporating control-flow roof drains into building design.

Runoff - Any part of precipitation that flows over the land.

Runoff Characteristics – The surface components on any watershed which either individually or in any combination thereof, directly affect the rate, amount and direction of stormwater runoff. These may include, but are not limited to; vegetation, soils, slopes and any type of manmade landscape alterations

Sediment - Soils or other materials transported by surface water as a product of erosion.

Sediment Basin – A barrier, dam, retention or detention basin designed to retain sediment.

Seepage Pit/Seepage Trench – An area of excavated earth filled with loose stone or similar materials into which surface water is directed for infiltration into the ground.

Semi-Pervious Surface – A surface which permits a limited amount of vertical transmission of water.

Sheet Flow - Water flow with a relatively thin and uniform depth.

Soil-Cover Complex Method – A method of runoff computation in NRCS publication “Urban Hydrology for Small Watersheds”, technical Release No. 55.

Spillway - A depression in the embankment of a pond or basin which is used to pass peak discharge greater than the maximum design storm controlled by the pond or basin.

State Water Quality Requirements - The regulatory requirements to protect, maintain, reclaim, and restore water quality under Title 25 of the Pennsylvania Code and the Clean Streams Law.

Storm Drain System – Publicly or privately owned facilities by which stormwater is collected and/or conveyed including, but not limited to, any roads with drainage systems, municipal streets, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and human-made or altered drainage channels, reservoirs, and other drainage structures.

Storm Frequency - The number of times that a given storm event occurs on average in a stated period of years.

Storm Sewer - A pipe or conduit, or a system of pipes or conduits, which intercepts and carries surface stormwater runoff, but excludes sewage, industrial wastes and similar discharges.

Stormwater - Drainage runoff from the surface of the land resulting from precipitation or snow or ice melt.

Stormwater Management Facility - Any structure, natural or man-made, that, due to its condition, design, or construction, conveys, stores, or otherwise affects stormwater runoff. Typical stormwater management facilities include, but are not limited to, detention and retention basins, open channels; storm sewers, pipes, and infiltration facilities.

Stormwater Management Plan - Parts and/or elements of the York County Integrated Water Resources Plan which incorporate the requirements of the Act of October 4, 1978, P.L. 864, (Act 167), as amended, and known as the “Storm Water Management Act.”

Stormwater Management Best Management Practices - Is abbreviated as BMPs or SWM BMPs throughout this Ordinance.

Stormwater Management Site Plan - The plan prepared by the developer or his representative indicating how stormwater runoff will be managed at the development site in accordance with this Ordinance. Stormwater Management Site Plan will be designated as SWM Site Plan throughout this Ordinance. For all NPDES permitted sites, the Stormwater Management Site Plan shall include, and be consistent with, the Erosion and Sediment Control Plan as submitted to the York County Conservation

District (YCCD) and/or DEP.

Stormwater Pollution Prevention Plan – A document which describes the best management practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to stormwater, stormwater conveyance systems, and/or receiving waters to the maximum extent practicable.

Subdivision - The division or re-division of a lot, tract or parcel of land by any means into two or more lots, tracts or parcels or other divisions of land including changes in existing lot lines for the purpose, whether immediate or future, of lease, partition by the court for distribution to heirs or devisees, transfer of ownership or building or lot development; provided, however, that the subdivision by lease of land for agricultural purposes into parcels of more than ten acres, not involving any new street or easement of access or any residential dwelling, shall be exempted.

Swale – A low-lying stretch of land which gathers and/or carries surface water runoff.

SWM - Stormwater Management.

USDA - United States Department of Agriculture.

Wastewater – Any water or other liquid, other than uncontaminated stormwater, discharged from a facility.

Watercourse – a stream of water; river, brook, creek, or a channel or ditch for water, whether natural or man-made.

Waters of this Commonwealth – Any and all rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, wetlands, ponds, springs, and all other bodies or channels of conveyance of surface and underground water, or parts thereof, whether natural or artificial, within or on the boundaries of this Commonwealth.

Watershed - Region or area drained by a river, watercourse, or other surface water of this Commonwealth.

Wetland - Areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs, and similar areas.

YCCD - York County Conservation District

ARTICLE III - STORMWATER MANAGEMENT STANDARDS

Section 301. General Requirements

- A. For all regulated activities, unless specifically exempted in Section 302:
1. Preparation and implementation of an approved SWM Site Plan is required.
 2. No regulated activities shall commence until the Township issues written approval of an SWM Site Plan which demonstrates compliance with the requirements of this Ordinance.
- B. SWM Site Plans approved by the Township, in accordance with Section 406, shall be on site throughout the duration of the regulated activity.
- C. The Township may, after consultation with DEP, approve measures for meeting the state water quality requirements other than those in this Ordinance, provided that they meet the minimum requirements of, and do not conflict with, State law including, but not limited to, the Clean Streams Law. The Township shall maintain a record of consultations with DEP pursuant to this paragraph.
1. DEP is not required to be consulted for waiver of the requirements within:
 - a. Section 306. Design Criteria
 - b. Section 307. Regulations Governing Stormwater Management Facilities
 - c. Section 308. Calculation Methodology
 - d. Section 309. Carbonate Geology
 - e. Section 310. Erosion and Sedimentation Control Requirements
 - f. Section 605. Municipal Stormwater Maintenance Fund
- D. For all regulated earth disturbance activities, erosion and sediment control BMPs shall be designed, implemented, operated, and maintained during the regulated earth disturbance activities, i.e., during construction, to meet the purposes and requirements of this Ordinance and to meet all requirements under Title 25 of the Pennsylvania Code and the Clean Streams Law. Various BMPs and their design standards are listed in the Erosion and Sediment Pollution Control Program Manual (E&S Manual) 2, No. 363-2134-008 (April 15, 2000), as amended and updated.
- E. For all regulated activities, implementation of the volume controls in Section 303. is required, unless specifically exempted under Section 302, or exempted by an approved modification request as specified in Section 403.B. of this Ordinance.
- F. Impervious areas:
1. The measurement of impervious areas shall include all of the impervious areas in the total proposed development even if development is to take place in phases.
 2. For development taking place in phases, the entire development plan must be used in determining conformance with this Ordinance.

3. For projects that add impervious area to a parcel, the total impervious area on the parcel is subject to the requirements of this Ordinance; except that the volume controls in Section 303 and the peak rate controls of Section 304 do not need to be retrofitted to existing impervious areas that are not being altered by the proposed regulated activity.
- G. Stormwater flows onto adjacent property shall not be created, increased, decreased, relocated, or otherwise altered without written notification of the adjacent property owner(s). Such stormwater flows shall be subject to the requirements of this Ordinance.
- H. All regulated activities shall include such measures as necessary to:
1. Protect health, safety, and property;
 2. Meet the water quality goals of this Ordinance, as stated in Section 103. Purpose, by implementing measures to:
 - a. Minimize disturbance to floodplains, wetlands, wooded areas, and existing vegetation.
 - b. Maintain or extend riparian buffers.
 - c. Avoid erosive flow conditions in natural flow pathways.
 - d. Minimize thermal impacts to waters of this Commonwealth.
 - e. Disconnect impervious surfaces by directing runoff to pervious areas, wherever possible.
 - f. Minimize soil disturbance and compaction. Topsoil, if removed, shall be replaced to a minimum depth equal to its depth prior to removal or four (4) inches, whichever is greater. (Additional topsoil may be needed for vegetation other than sod.)
 3. To the maximum extent practicable, incorporate the techniques for Low Impact Development Practices described in the Pennsylvania Stormwater Best Management Practices Manual (BMP Manual).
- I. The design of all facilities in areas of carbonate geology or karst topography shall include an evaluation of measures to minimize adverse effects, including hydro-geologic studies if required by the Township.
- J. Infiltration BMPs shall be spread out, made as shallow as practicable, and located to maximize use of natural on-site infiltration features while still meeting the other requirements of this Ordinance. In addition, infiltration BMPs shall include pre-treatment BMPs where appropriate.
- K. All natural streams, channels, swales, drainage systems and/or areas of surface water concentration shall be maintained in their existing condition unless an alteration is approved by the Township. All encroachment activities shall comply with the requirements of PA DEP 25 PA Code Chapter 105 (Water Obstructions and Encroachments), Rules and Regulations of PA DEP. Any approvals or permits issued do not relieve compliance as referenced in Section 108, Compatibility with Other

Permit and Ordinance Requirements.

- L. All storage facilities shall completely drain both the volume control and rate control capacities over a period of time not less than 24 hours and not more than 72 hours from the end of the design storm. However, any designed infiltration at such facilities is exempt from the minimum 24-hour standard, i.e., may infiltrate in a shorter period of time, so long as none of the stormwater flowing into the infiltration facility is discharged directly into the surface waters of the Commonwealth. (Inordinately rapid infiltration rates may indicate the presence of large fractures or other conditions for which an additional soil buffer may be required.)
- M. The design storm volumes and precipitation intensities to be used in the analysis of discharge or runoff shall be obtained from the Precipitation-Frequency Atlas of the United States, Atlas 14, Volume 2, Version 3.0, U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydrometeorological Design Studies Center, Silver Spring, Maryland. NOAA's Atlas 14 can be accessed at: <http://hdsc.nws.noaa.gov/hdsc/pfds/>.
- N. For all regulated activities, SWM BMPs shall be designed, implemented, operated, and maintained to meet the purposes and requirements of this Ordinance and to meet all requirements under Title 25 of the Pennsylvania Code, the Clean Streams Law, and the Storm Water Management Act.
- O. Various BMPs and their design standards are listed in the BMP Manual.
- P. All work shall be in accordance with the Township's Construction and Material Specifications.
- Q. The technical standards provided within this Ordinance are considered the baseline for the design and layout of an SWM Site Plan. Use of other alternative and innovative designs for controlling stormwater runoff may be permitted when approved by the Township Engineer.

Section 302. Exemptions

Any Regulated Activity that meets the following exemption criteria is exempt from the part(s) of this Ordinance as specified herein. However, the requirements of the Ordinance shall otherwise remain in effect. The criteria for exemption in this Section apply to the total development proposed, including instances in which the development is proposed to take place in phases. The date of enactment of this Ordinance shall be the starting point from which future development and the respective proposed impervious surface computations shall be cumulatively considered and regulated. Exemption shall not relieve an applicant from implementing such measures as necessary to meet the intent of this Ordinance, or compliance with any NPDES Permit requirements.

- A. Regulated activities that create DIAs equal to or less than 1,000 square feet are exempt from the peak rate control and the SWM Site Plan preparation requirements of this Ordinance, and therefore, no formal application to the Township is required.
- B. Regulated activities that create DIAs greater than 1,000 square feet and equal to or less than 5,000 square feet are exempt only from the peak rate control requirement of this Ordinance.
- C. Agricultural activity is exempt from the rate control and SWM Site Plan preparation requirements of

this Ordinance provided the activities are performed according to the requirements of 25 Pa. Code 102. For regulated activities that meet these exemption criteria, no formal application to the Township is required.

- D. Forest management and timber operations are exempt from the rate control and SWM Site Plan preparation requirements of this Ordinance provided the activities are performed according to the requirements of 25 PA Code 102. For regulated activities that meet these exemption criteria, no formal application to the Township is required.
- E. Domestic gardening and landscaping are exempt from specific approval and permitting under this Ordinance so long as those activities are associated with one, and only one, dwelling unit and the activities comply with all other applicable ordinances and statutes.
- F. Exemptions from certain provisions of this Ordinance shall not relieve the applicant from the requirements in Sections 301.D. through N. of this Ordinance.
- G. The Township may deny or revoke any exemption pursuant to this Section at any time for any project that the Township determines poses a threat to public health, safety, property or the environment.

Section 303. Volume Controls

The low impact development practices provided in the BMP Manual shall be utilized for all regulated activities to the maximum extent practicable. Water volume controls shall be implemented using the Design Storm Method in Subsection A or the Simplified Method in Subsection B below. For regulated activity areas equal or less than one (1) acre that do not require hydrologic routing to design the stormwater facilities, this Ordinance establishes no preference for either methodology; therefore, the applicant may select either methodology on the basis of economic considerations, the intrinsic limitations on applicability of the analytical procedures associated with each methodology, and other factors.

- A. The Design Storm Method (CG-1 in the BMP Manual) is applicable to any size of regulated activity. This method requires detailed modeling based on site conditions.
 - 1. Do not increase the post-development total runoff volume for all storms equal to or less than the two (2)-year 24-hour duration precipitation.
 - 2. For modeling purposes:
 - a. Existing (pre-development) non-forested pervious areas must be considered meadow.
 - b. For computation of pre-development runoff volume, twenty percent (20%) of existing impervious areas, when present, shall be considered meadow.
- B. The Simplified Method (CG-2 in the BMP Manual) provided below is independent of site conditions and should be used if the Design Storm Method is not followed. This method is not applicable to

regulated activities greater than one (1) acre or for projects that require design of stormwater storage facilities.

For new impervious surfaces:

1. Stormwater facilities shall capture at least the first two (2) inches of runoff from all new impervious surfaces.
2. At least the first one (1) inch of runoff from new impervious surfaces shall be permanently removed from the runoff flow, i.e., it shall not be released into the surface waters of this Commonwealth. Removal options for the first one (1) inch of runoff include reuse, evaporation, transpiration, and infiltration.
3. Wherever possible, infiltration facilities should be designed to accommodate infiltration of the entire permanently removed runoff; however, in all cases at least the first 0.5 inch of the permanently removed stormwater runoff shall be infiltrated.
4. This method is exempt from the requirements of Section 304. Rate Controls.

Section 304. Rate Controls

- A. For computation of pre-development peak discharge rates, twenty percent (20%) of the existing impervious area of a project site, when present, shall be considered meadow.
- B. Post-development discharge rates shall not exceed the pre-development discharge rates for the 1-, 2-, 5-, 10-, 25-, 50-, and 100-year 24-hour storms. If it is shown that the peak rates of discharge indicated by the post-development analysis are less than or equal to the peak rates of discharge indicated by the pre-development analysis for 1-, 2-, 5-, 10-, 25-, 50-, and 100-year, 24-hour storms, then the requirements of this section have been met. Otherwise, the applicant shall provide additional controls as necessary to satisfy the peak rate of discharge requirement.

Section 305. Stormwater Management Facilities for Pennsylvania Department of Transportation and Pennsylvania Turnpike Commission Roadways and Associated Facilities

For the purposes of the Act 167 Stormwater Management (Plan) elements, contained within the York County Integrated Water Resources Plan, and this Ordinance, design policy pertaining to stormwater management facilities for Pennsylvania Department of Transportation (PennDOT) and Pennsylvania Turnpike Commission (PTC) roadways and associated facilities is provided in Section 13.7 (Antidegradation and Post Construction Stormwater Management Policy) of PennDOT Publication No. 13M, Design Manual Part 2 (August 2009), as developed, updated, and amended in consultation with the Pennsylvania Department of Environmental Resources (DEP). As stated in DM-2.13.7.D (Act 167 and Municipal Ordinances), PennDOT and PTC roadways and associated facilities shall be consistent with Act 167 Plans. Dm-2.13.7.B (Policy on Antidegradation and Post Construction Stormwater Management) was developed as a cooperative effort between PennDOT and DEP. DM-2.13.7.C (Project Categories) discusses the anticipated impact on the quality, volume, and rate of stormwater runoff.

Where standards in the Act 167 elements of the IWRP and this Ordinance are impractical, PennDOT or the PTC may request assistance from DEP, in consultation with the Township and County, to develop an alternative strategy for meeting State water quality requirements and the goals and objectives of the Act 167 elements within the IWRP.

For the purposes of the Act 167 elements in the IWRP and this Ordinance, road maintenance activities are regulated under 25 PA Code Chapter 102.

Section 306. Design Criteria

- A. **Off-Site Areas** - Off-site areas which drain through a proposed development site are not subject to release rate criteria when determining allowable peak runoff rates. However, on-site drainage facilities shall be designed to safely convey off-site flows through the development site.
- B. **On-Site Areas** - On-Site Areas proposed to remain undisturbed as part of the Regulated Activity, including previously developed areas, that are not within the drainage area of any proposed BMPs shall be considered as existing conditions, without considering any reductions in cover type.
- C. **"Downstream Hydraulic Capacity Analysis"** - Any existing downstream hydraulic capacity analysis shall be conducted in accordance with this Ordinance.
 - 1. All downstream facilities impacted by the total site area of the Regulated Activity shall be studied to determine if the facility has adequate capacity to handle existing and proposed flows. An impacted downstream facility is one to which the runoff from the total site area of the Regulated Activity comprises more than 50% of the total flow to such a facility. The study shall end at a perennial stream. Downstream facilities include, but are not limited to, manmade or natural swales and open channels, pipes, inlets, culverts, bridges and roadways.
 - 2. If any private facility is found to be undersized, the applicant shall be responsible for updating the facility in coordination with the Regulated Activity.
 - 3. If any public facility is found to be undersized or inadequate, the applicant shall work with the Township on upgrading the facility in coordination with the Regulated Activity.
- D. **Regional Detention Alternatives** - For certain areas within the study area, it may be more cost-effective to provide one control facility for more than one development site than to provide an individual control facility for each development site. The initiative and funding for any regional runoff control alternatives are the responsibility of prospective developers. The design of any regional control basins must incorporate reasonable development of the entire upstream watershed. The peak outflow of a regional basin would be determined on a case-by-case basis using the hydrologic model of the watershed consistent with protection of the downstream watershed areas. "Hydrologic model" refers to the calibrated model as developed for the Stormwater Management Plan.
- E. **Capacity Improvements of Local Drainage Networks** - In certain instances, primarily within the provisional no detention areas, local drainage conditions may dictate more stringent levels of

runoff control than those based upon protection of the entire watershed. In these instances, if the developer could prove that it would be feasible to provide capacity improvements to relieve the capacity deficiency in the local drainage network, then the capacity improvements could be provided by the developer in lieu of runoff controls on the development site. Any capacity improvements would be designed based upon development of all areas tributary to the proposed improvement and the capacity criteria specified in Section 308. In addition, all new development upstream of a proposed capacity improvement shall be assumed to implement the applicable runoff controls consistent with this Ordinance except that all new development within the entire subarea(s) within which the proposed development site is located shall be assumed to implement the developer's proposed discharge control, if any.

- F. Capacity improvements may also be provided as necessary to implement any regional or subregional detention alternatives.
- G. Where the potential for groundwater and/or surface water contamination exists, based on the proposed use of the Regulated Activity, safeguards shall be incorporated into the site.
 - 1. For industrial or commercial sites where it is possible that toxic or hazardous substances may come into contact with stormwater runoff, pretreatment of the first-flush (first 1/2 inch) runoff over areas where industrial and commercial operations take place shall be provided. Pretreatment shall include means for separating light and heavy toxic and hazardous substances from the stormwater before the stormwater is conveyed to the general stormwater management facility (ies).
 - 2. Infiltration systems may be used to handle runoff from commercial or industrial working or parking areas only after the first-flush stormwater from these areas has been pretreated for removal of toxic and hazardous substances.
- H. Roof drains and sump pumps shall discharge to infiltration or vegetative BMPs and to the maximum extent practicable satisfy the criteria for DIAs.

Section 307. Regulations Governing Stormwater Management Facilities

- A. Any stormwater facility located on State highway rights-of-way shall be subject to approval by the Pennsylvania Department of Transportation (PennDOT).
- B. Any stormwater management facilities regulated by this Ordinance that would be located in or adjacent to waters of the Commonwealth or wetlands shall be subject to approval by PA DEP through the Joint Permit Application process, or, where deemed appropriate by PA DEP, the General Permit process. When there is a question whether wetlands may be involved, it is the responsibility of the Developer or his agent to show that the land in question cannot be classified as wetlands, otherwise approval to work in the area must be obtained from PA DEP.
- C. Any stormwater management facility located within the vicinity of a Floodplain shall be subject to approval in accordance with PA DEP 25 PA Code Chapter 106 (Floodplain Management) of PA DEP's Rules and Regulations.

- D. All earthmoving activities must be reviewed and approved by the York County Conservation District prior to commencing work.
- E. The design of all stormwater management facilities shall incorporate good engineering principles and practices. The Township shall reserve the right to disapprove any design that would result in the occupancy or continuation of adverse hydrologic or hydraulic conditions within the watershed.
- F. The existing points of concentrated drainage that discharge onto adjacent property shall not be altered without notification of the adjacent property owner(s) and shall be subject to any applicable discharge criteria specified in this Ordinance.
- G. Areas of existing diffused drainage discharge shall be subject to any applicable discharge criteria in the general direction of existing discharge, whether proposed to be concentrated or maintained as diffused drainage areas, except as otherwise provided by this ordinance. If diffused flow is proposed to be concentrated and discharged onto adjacent property, the Developer must document that adequate downstream conveyance facilities exist to safely transport the concentrated discharge, or otherwise prove that no erosion, sedimentation, flooding or other harm will result from the concentrated discharge.
- H. Where a development site is traversed by watercourses, drainage easements shall be provided conforming to the line of such watercourses. The terms of the easement shall prohibit excavation, the placing of fill or structures, and any alterations that may adversely affect the flow of stormwater within any portion of the easement. Also, maintaining of vegetation in a natural state within the easement shall be required, except as approved by the appropriate governing authority.
- I. When it can be shown that, due to topographic conditions, natural drainageways on the site cannot adequately provide for drainage, open channels may be constructed conforming substantially to the line and grade of such natural drainageways. Work within natural drainageways shall be subject to approval by PA DEP through the Joint Permit Application process, or, where deemed appropriate by PA DEP, through the General Permit process.
- J. Roof drains must not be connected to streets, sanitary or storm sewers or roadside ditches to promote overland flow and infiltration/percolation of stormwater where advantageous to do so. When it is more advantageous to connect directly to streets or storm sewers, then it shall be permitted on a case by case basis by the Township.
- K. Special requirements for areas falling within defined Exceptional Value and High Quality Subwatersheds: The temperature and quality of water and streams that have been declared as exceptional value and high quality is to be maintained as defined in Chapter 93, Water Quality Standards, Title 25 of Pennsylvania Department of Environmental Protection Rules and Regulations. Temperature sensitive BMPs and stormwater conveyance systems are to be used and designed with storage pool areas and supply outflow channels and should be shaded with trees. This will require modification of berms for permanent ponds and the relaxation of restrictions on planting vegetation within the facilities, provided that capacity for volumes and rate control is maintained. At a minimum, the southern half on pond shorelines shall be planted

with shade or canopy trees within ten (10) feet of the pond shoreline. In conjunction with this requirement, the maximum slope allowed on the berm area to be planted is 10 to 1. This will lessen the destabilization of berm soils due to root growth. A long term maintenance schedule and management plan for the thermal control BMPs is to be established and recorded for all development sites within defined Exceptional Value and/or High Quality Subwatersheds.

Section 308. Calculation Methodology

- A. Stormwater runoff from all development sites shall be calculated using the Rational Method, Modified Rational Method, or a Soil Cover Complex methodology.
1. Any stormwater runoff calculations involving drainage areas greater than 200 acres, including on- and off-site areas, shall use generally accepted calculation technique that is based on the NRCS Soil Cover Complex method. It is assumed that all methods will be selected by the design professional based on the individual limitations and suitability of each method for a particular site.
 2. The Township may allow the use of the Rational Method or Modified Rational Method to estimate peak discharges from drainage areas that contain less than 200 acres.
 3. All calculations consistent with this Ordinance using the Soil Cover Complex method shall use the appropriate design rainfall depths. If a hydrologic computer model such as PSM or HEC-RAS is used for stormwater runoff calculations, then the duration of rainfall shall be 24 hours. The SCS Rainfall Type II curve shall be used for the rainfall distribution.
 4. For the purposes of pre-development flow rate determination, undeveloped land, including areas to be disturbed as part of the Regulated Activity, shall be considered as "meadow" in good condition, unless the natural ground cover generates a lower curve number or Rational "C" value (i.e., forest), as listed in Tables 1 and 2, respectively.
 5. All calculations using the Rational Method shall use rainfall intensities consistent with appropriate times-of-concentration for overland flow and return periods. Times-of-concentration for overland flow shall be calculated using the methodology presented in Chapter 3 of Urban Hydrology for Small Watersheds, NRCS, TR-55 (as amended or replaced from time to time by NRCS). Time-of-concentration for channel and pipe flow shall be computed using Manning's equation.
 6. Runoff Curve Numbers (CN) for both existing and proposed conditions to be used in the Soil Cover Complex method shall be obtained from Table 1.
 7. Runoff coefficients (c) for both existing and proposed conditions for use in the Rational Method shall be obtained from Table 2.
 8. Where uniform flow is anticipated, the Manning equation shall be used for hydraulic computations such as the capacity of open channels, pipes, and storm sewers. Values for Manning's roughness coefficient (n) shall be consistent with Table 3.

9. The design of any stormwater detention facilities intended to meet the performance standards of this Ordinance shall be verified by routing the design storm hydrograph through these facilities, using either manual methods or computerized routing. Routing shall be based upon the modified PULS method; other routing methodologies shall be subject to the approval of the Township Engineer.
10. The stormwater collection system shall be designed using the peak discharge computed using the Rational Formula.

B. Design Standards – Water Carrying Facilities

1. All storm sewer pipes, streets, and inlets (excluding detention and retention basin outfall structures) shall be designed for a 10-year storm event. Sole access structures (culverts and bridges) shall be designed to convey the 25-year flood without overtopping the roadway.
 - a. When a pipe or culvert is intended to convey the discharge from a stormwater management facility, its required capacity shall be computed by the rational method and compared to the peak outflow from the stormwater facility for the 100-Year storm. The greater flow shall govern the design of the pipe or culvert.
 - b. When a pipe is part of a storm sewer system and crosses the roadway, it shall be designed as a storm sewer with the same design storm as the remainder of the drainage system.
 - c. Greater design frequencies may be justified on individual projects.
 - d. A 100-year storm frequency may be required for design of the stormwater collection system to insure that the resultant stormwater runoff from the post-development storm is directed into the management facility.
2. In general, inlets shall be spaced such that, based upon the Rational Method, $t_c = 5$ min. and 10-year rainfall intensity, the area contributing to the inlet shall not produce a peak runoff of greater than 4 cfs. Also, inlets shall be spaced so that their efficiency, based upon efficiency curves published by the Pennsylvania Department of Transportation, is not less than 65%.
3. Inlets shall be placed on both sides of the street at low spots and at the upper side of street intersections to prevent stormwater from crossing an intersection. Other devices such as high efficiency grates or perforated pipe may be required if conditions warrant. All inlets at low points along the roadway shall have a 10" curb reveal and shall be equipped with pavement base drain extending 50 feet in either direction, parallel to the centerline of the roadway.
4. In all cases where drainage is picked up by means of a headwall, the pipe shall be designed as a culvert. Inlet and outlet conditions shall be analyzed. The minimum diameter of culvert shall be 18 inches. The procedure contained in Hydraulic

Engineer Circulars No. 5 and No. 13, as prepared by the U. S. Department of Transportation, Federal Highway Administration, Washington, D.C., shall be used for the design of culverts. All culverts shall include concrete headwalls and endwalls.

5. Guards shall be provided on all intake and outfall structures as well as outlet structures. The guard bars shall be one-half inch (1/2") diameter galvanized bars on six inch (6") centers attached to the structure with three eighth inch (3/8") diameter stainless steel anchors. Guards shall also be provided for any pipe opening, 18" in diameter or larger.
6. Manholes, inlets, headwalls, and endwalls shall conform to the requirements of the PennDOT Publication 408, as modified by the adopted Township Standards.
7. Proposed channels or swales must be able to convey the increased runoff associated with a proposed 100-year return period event within their banks at velocities consistent with protection of the channels from erosion. Acceptable velocities shall be based upon criteria included in the PA DEP *Erosion and Sediment Pollution Control Program Manual*.
8. Existing natural or man-made channels or swales must be able to convey proposed 100-year return period runoff without creating any hazard to persons or property
9. Stormwater runoff on roadways (i.e. gutter spread, lane encroachment, etc.) shall be controlled in accordance with PennDOT Publications 13M, "Design Manual, Part 2" and 584, "Drainage Manual".

C. Design Standards – Detention and Retention Basins

1. Permanent Detention and Retention Basins shall be designed to meet the following standards:
 - a. The maximum permitted depth for detention or retention basins shall be 6 feet, measured from the bottom of the emergency spillway to the lowest point in the basin. However, where a detention basin is to be used as usable open space or recreational purposes, the maximum depth shall be two (2) feet, as measured above.
 - b. The minimum top width of all basin embankments shall be 8 feet.
 - c. The maximum permitted side slopes for detention or retention basins shall be 4 horizontal to 1 vertical. In order to obtain a waiver for slopes steeper than 4:1, the plan must include a planting schedule to stabilize the embankments. The proposed vegetation shall be low maintenance varieties.
 - d. Minimum Bottom Slope - All detention basins shall have a minimum bottom

slope of 2% unless infiltration facilities are provided. Where a detention basin is to be used as usable open space or recreational purposes, a lesser slope is permissible provided the runoff volumes of pre-developed conditions are maintained in accordance with Section 303. The design of such basins shall be in accordance with the standards set forth for Infiltration Basins in the Pennsylvania Department of Environmental Protection publication *Pennsylvania Stormwater Best Management Practices Manual, Chapter 6, Structural BMPs*, 363-0300-002, dated December 30, 2006.

- e. Any stormwater management facility (i.e., detention basin) designed to store runoff and requiring a berm or earthen embankment required or regulated by this Ordinance shall be designed to provide an emergency spillway to handle flow up to and including the 100-year, 24 hour design storm at post-development conditions, assuming the principal outlet structure to be clogged. The height of embankment must be set as to provide a minimum 0.5 feet of freeboard above the maximum elevation computed for the clogged orifice condition. Should any stormwater management facility require a dam safety permit under PA DEP 25 PA Code Chapter 105, the facility shall be designed in accordance with PA DEP 25 PA Code Chapter 105 and meet the regulations of PA DEP 25 PA Code Chapter 105 concerning dam safety which may be required to pass storms larger than 100-year event.
- f. A cutoff trench of impervious material shall be provided within all basin embankments.
- g. Where a basin embankment is constructed using fill on an existing 15% or greater slope, the basin must be keyed into the existing grade.
- h. Fencing. Any above-ground stormwater management detention/retention facility, that is designed to store at least a two foot (2') depth of runoff, shall be subject to the following fencing requirements:
 - i. Stormwater facility must be completely surrounded by a chain link fence of not less than four (4) feet in height. Alternative fences and barriers may be permitted upon request to and approval by the Township.
 - ii. All gates or doors opening through such enclosure shall be equipped with a self-closing and self-latching device for keeping the gate or door securely closed at all times, when not in actual use.
- i. All outlet structures and emergency spillways shall include a satisfactory means of energy dissipation at its outlet to assure conveyance and flow without endangering the safety and integrity of the basin and the downstream drainage area.

Section 309. Carbonate Geology

- A. In areas of carbonate geology, a geologist shall certify to the following:
1. No stormwater management facility will be placed in, over, or immediately adjacent to the following features:
 - a. closer than 100 feet from sinkholes
 - b. closer than 100 feet from closed depressions
 - c. closer than 100 feet from caverns, intermittent lakes, or ephemeral streams
 - d. closer than 50 feet from lineaments in carbonate areas
 - e. closer than 50 feet from fracture traces
 - f. closer than 25 feet from bedrock pinnacles (surface or subsurface)
 2. Stormwater resulting from regulated activities shall not be discharged into sinkholes.
 3. If the developer can prove through analysis that the project site is an area underlain by carbonate geology, and such geologic conditions may result in sinkhole formations, then the project site is exempt from recharge requirements as described in Section 303, Volume Control. However, the project site shall still be required to meet all other standards found in this Ordinance.
 4. It shall be the developer's responsibility to verify if the project site is underlain by carbonate geology. The following note shall be attached to all stormwater management plans and signed and sealed by the developer's geologist: "I, _____, certify that the proposed stormwater management facility (circle one) is / is not underlain by carbonate geology."
 5. Whenever a stormwater management facility will be located in an area underlain by carbonate geology, a geological evaluation of the proposed location by a geologist shall be conducted to determine susceptibility to sinkhole formation. The evaluation may include the use of impermeable liners to reduce or eliminate the separation distances listed in the BMP Manual. Additionally, the evaluation shall at a minimum, address soil permeability, depth to bedrock, seasonally high groundwater table, susceptibility for sinkhole formation, suitability of stormwater management facilities, subgrade stability and maximum infiltration capacity in depth of water per unit area.
 6. A detailed soils evaluation of the project site shall be performed to determine the suitability of recharge facilities. The evaluation shall be performed by a qualified professional, and at a minimum, address soil permeability, depth to bedrock, susceptibility to sinkhole formation, and subgrade stability. The general process for designing the infiltration BMP shall be:
 - a. Site evaluation to determine general areas of suitability for infiltration practices.

- b. Provide field test throughout the area proposed for development to determine appropriate percolation rate and/or hydraulic conductivity. At least one (1) infiltration test must be included in each soil group and at least one (1) infiltration test must be conducted for each five (5) lots proposed for development. Infiltration tests must be taken at the location and depth of all proposed infiltration structures.
 - c. Design infiltration structure for required storm volume based on all available data.
7. Extreme caution shall be exercised where infiltration is proposed in geologically susceptible areas such as strip mine or limestone areas. It is also extremely important that the design professional evaluate the possibility of groundwater contamination from the proposed infiltration/recharge facility and recommend a hydrogeologic justification study be performed if necessary. Whenever a basin will be located in an area underlain by limestone, a geological evaluation of the proposed location shall be conducted to determine susceptibility to sinkhole formations. The design of all facilities over carbonate formations shall include measures to prevent ground water contamination and, where necessary, sinkhole formation. The infiltration requirement in the High Quality/Exceptional Waters shall be subject to the Department's Chapter 93 and Anti-degradation Regulations. A detailed hydrogeologic investigation may be required by the Township and where appropriate, the Township may require the installation of an impermeable liner in detention basins

Section 310. Erosion and Sedimentation Control Requirements

- A. As required in Section 301.D, whenever the vegetation and topography are to be disturbed, such activity must be in conformance with PA DEP 25 PA Code Chapter 105, Rules and Regulations, Part I, Subpart C, protection of natural Resources, Article II, Water Resources, Chapter 102, "Erosion Control", and in accordance with the York County Conservation District.
- B. It is extremely important that strict erosion and sedimentation control measures be applied surrounding infiltration structures during installation to prevent the infiltrative surfaces from becoming clogged. Additional erosion and sedimentation control design standards and criteria must be applied where infiltration BMPs are proposed shall include the following:
 - 1. Areas proposed for infiltration BMPs shall be protected from sedimentation and compaction during the construction phase, so as to maintain their maximum infiltration capacity.
- C. Fencing for sedimentation basins or traps must comply with Section 308.C.1.h.
- D. The developer shall demonstrate that the post-development hydrograph flows during erosion and sedimentation control phase are less than or equal to the pre-development hydrograph flows to assure the rate and volume of runoff leaving the site is controlled

for the 2-, 5-, and 10-year frequency storms. All calculation methodology shall be in accordance with Sections 303 through Section 309.

**ARTICLE IV - STORMWATER MANAGEMENT (SWM)
SITE PLAN REQUIREMENTS**

Section 401. Plan Requirements

Although not a requirement of this Ordinance, prior to proceeding with SWM Site Plan preparation and submission, the applicant is encouraged to request a pre-application meeting with the Township, Township's Engineer and a staff member of the York County Conservation District to discuss the plan concept and responsibility for submission of required documents and information.

The following items shall be included in the SWM Site Plan:

- A. Appropriate sections of the Township's Subdivision and Land Development Ordinance, and other applicable ordinances of the Township regarding subdivision and land development plan preparation and applicable plan requirements shall be followed in preparing all SWM Site Plans, regardless of whether or not a SWM Site Plan involves a subdivision and/or land development plan..
- B. The Township shall not approve any SWM Site Plan that is deficient in meeting the requirements of this Ordinance. At its sole discretion, and in accordance with this Article, when a SWM Site Plan is found to be deficient, the Township may either disapprove the submission, or, in the case of minor deficiencies, the Township may accept the submission of a revised SWM Site Plan as noted in Section 404. of this Ordinance.
- C. Provisions for permanent access or maintenance easements for all physical SWM BMPs, such as ponds and infiltration structures, as necessary to implement the Operation and Maintenance (O&M) Plan discussed in Item E.9 below.
- D. The following signature block for the Township:

"(Municipal official or designee), on this date (date of signature), has reviewed and hereby certifies that the SWM Site Plan meets all design standards and criteria of the Township Ordinance No. (number assigned to the Ordinance)."
- E. If not required by the Township Subdivision and Land Development Ordinance, as specified in Section 401.A. of this Ordinance, the SWM Site Plan shall also provide the following information where applicable:
 - 1. The overall stormwater management concept for the project, including any additional information required for a Post-Construction Stormwater Management Plan (PCSWMP) as applicable.
 - 2. A determination of site conditions in accordance with the BMP Manual. A detailed site evaluation shall be completed for projects proposed in areas of carbonate geology or karst topography, as well as for other environmentally sensitive areas, whether natural or manmade, including floodplains, streams, lakes, ponds, hydric soils, wetlands, brownfields and wellhead protection zones.

3. Stormwater runoff design computations, and documentation as specified in this Ordinance, or as otherwise necessary to demonstrate that the maximum practicable measures have been taken to meet the requirements of this Ordinance, including the recommendations and general requirements in Section 301.
4. Expected project time schedule.
5. A soil erosion and sediment control plan, where applicable, as prepared for, reviewed, and approved by the York County Conservation District.
6. The effect of the project in terms of runoff volumes, water quality, and peak flows on surrounding properties and aquatic features, and on any existing stormwater conveyance system that may be affected by the project.
7. Plan and profile drawings of all SWM BMPs, including drainage structures, pipes, open channels, and swales.
8. The SWM Site Plan shall show the locations of existing and proposed on-lot wastewater facilities and water supply wells.
9. The SWM Site Plan shall include an Operation and Maintenance (O&M) Plan for all existing and proposed physical stormwater management facilities. This plan shall address long-term ownership and responsibilities for O&M as well as schedules and costs for O&M activities.
10. A description of permanent stormwater management techniques, including the construction specifications of the materials to be used for stormwater management facilities.
11. A notarized signature of the owner of the parcel for which the SWM Site Plan is proposed indicating that they are aware of and will be responsible for operation and maintenance of the facilities.
12. Existing and proposed land uses.
13. The location of the proposed regulated activity relative to streets, municipal boundaries, and other significant manmade features.
14. Significant physical features and associated boundary limits including flood hazard areas, sinkholes, existing drainage courses, and areas of natural vegetation.
15. The location of existing and proposed utilities, stormwater facilities, sanitary sewers, and water lines on the parcel and within 50 feet of property lines.
16. Proposed changes to the land surface and vegetative cover, and the type and amount of existing and proposed impervious area.
17. Existing and proposed structures, buildings, streets, driveways, access drives, and parking areas.

18. Preferred contour intervals of two (2) feet in moderately sloped areas, and contours at intervals of five (5) feet for slopes in excess of 15 %. Dependent upon site conditions, alternative contour intervals proposed by an applicant or his designee may be accepted by the Township.
19. The name of the development, the name and address of the owner of the property, and the name and address of the individual or firm preparing the Plan. Also to be included are the name, address, signature and seal of any registered surveyor (attesting the accuracy of the boundary survey), professional engineer, landscape architect, or professional geologist (for geomorphological assessments) contributing to and/or with a responsibility for any aspect of the Plan where applicable.
20. Preferred graphic and written scale of one (1) inch equals no more than 50 feet. For parcels of 20 acres or more, the preferred scale is one (1) inch equals no more than 100 feet. Dependent upon site conditions, an alternative scale proposed by the applicant or his designee may be accepted by the Township.
21. North point (arrow).
22. A map showing all existing manmade features beyond the subject parcel's boundary lines that will be affected by the proposed regulated activities.
23. Horizontal and vertical profiles of all open channels, including hydraulic capacity.
24. A note on the plan indicating the location, and responsibility for maintenance of, SWM facilities and/or easements that would be located on adjoining properties as a result of proposed regulated activities, and the location of such facilities and/or easements.
25. A hydrogeologic assessment of the effects of stormwater runoff on sinkholes where present.
26. The effect of the proposed regulated activity in terms of runoff volumes and peak flows on adjacent properties and/or any existing municipal stormwater collection system that may receive runoff from the project site.
27. Drainage flow pathways.

Section 402. Plan Submission

- A. Three (3) copies of the SWM Site Plan shall be submitted as follows:
 1. Two (2) copies to the Township.
 2. One (1) copy to the York County Planning Commission when a SWM Site Plan accompanies a subdivision/land development plan application.
- B. Additional copies shall be submitted as requested by the Township or DEP.

- C. The Township may establish a fee schedule for the review of SWM Plans, the amount of which shall be set by resolution of the Board of Supervisors.

Section 403. Plan Review and Approval Procedure

- A. SWM Site Plans shall be reviewed by the Township for consistency with the provisions of this Ordinance.

B. Modification Requests:

1. When reviewing a SWM Site Plan, whether or not the SWM Site Plan is included in a subdivision and/or land development plan application, the Township's governing body may, after consulting with DEP as noted in Section 301.C. of this Ordinance, grant a modification of the requirements of one or more provisions of this Ordinance if the literal enforcement will enact undue hardship because of peculiar conditions pertaining to the land in question, provided that such modification will not be contrary to the public interest and that the purpose and intent of the Ordinance is observed.
2. All requests for modifications from an applicant shall be in writing and shall accompany and be a part of the application for approval of a SWM Site Plan and/or a subdivision or land development plan as applicable. The request shall state in full the grounds and facts of unreasonableness or hardship on which the request is based, the provision or provisions of the Ordinance involved and the minimum modification necessary.
3. In granting of any modification, the Township may attach such reasonable conditions and safeguards as it may deem necessary to implement the purposes of the Act 167 Plan and this Ordinance.
4. The governing body of the Township shall keep a written record of all action on requests for modifications. The response of any consultation and/or review by DEP shall be included as an original report if available or otherwise documented in the required written record.

C. SWM Site Plan Review and Approval Procedure:

1. If a SWM Site Plan does not involve a subdivision and/or land development, the review of the SWM Site, recommendations, approval, approval with conditions, or disapproval, i.e., the review and decision period, shall occur within forty five (45) days of submission to the Township. However, the Township, in its sole discretion, may extend the review and decision period another forty five (45) days due to the nature of the application and/or site conditions. If an extension of another forty five (45) days is imposed or granted by the Township beyond the first forty five (45) day review and decision period designated by this paragraph, the Township shall notify the applicant in writing and deliver such notice to said applicant within fifteen (15) days of the decision to extend the review and decision period by the Township. If no extension is imposed or granted by the Township beyond the first forty five (45) day review and decision period, and no decision has been rendered by the Township within that period, the SWM Site Plan shall be deemed approved. Similarly, if after a forty five (45) day extension of the review and decision period has been imposed or granted by the Township, and no decision has been

rendered by the Township within that period, the SWM Site Plan shall be deemed approved.

2. If a SWM Site Plan involves a subdivision and/or land development plan, the period of time from the submission to the Township of the subdivision and/or land development plan application which includes the SWM Plan and the approval, approval with conditions, or disapproval, i.e., review and decision period, shall be 90 days, in accordance with the procedure for approval of plats in Section 508 of the Pennsylvania Municipalities Planning Code.
3. From the time an application for approval of a plat involving a subdivision or land development plan, whether preliminary or final, which includes a SWM Site Plan, is duly filed with the Township, no change or amendment of this Ordinance or other governing ordinance or plan shall affect the decision on such application in accordance with the provisions of the governing ordinances or plans as they stood at the time the application was duly filed, as specified in Section 508. (4) (I) of the Pennsylvania Municipalities Planning Code.

D. Decision Notification Procedure:

In all cases, the decision of the Township to approve or disapprove the SWM Site Plan shall be in writing and shall be delivered to the applicant no later than 15 days following the decision. If the SWM Site Plan is disapproved, the written decision by the Township shall specify the defects in the application, describe the requirements which were not met, and shall cite the provisions of the Ordinance relied upon. If the SWM Site Plan is approved with conditions, the notification to the applicant shall state the acceptable conditions for approval and the time limit for satisfying such conditions. The time limit for satisfying conditions of approval shall be the time limit prescribed for conditional approval of subdivision and land development plans as stated in the Township's Subdivision and Land Development Ordinance, or the York County Subdivision and Land Development Ordinance where applicable.

Section 404. Revision of Plans

A revision to a previously submitted SWM Site Plan that involves a change in SWM BMPs, stormwater management facilities, or changes in analytical techniques, or that involves the relocation or redesign of SWM BMPs, or that is necessary because soil or other conditions are not as stated on the SWM Site Plan, as determined by the Township, shall require a re-submission of the revised SWM Site Plan in accordance with this Article, including applicable fees. For NPDES permitted sites, any revised SWM Site Plan shall also be re-submitted to the York County Conservation District for review. In the case of a SWM Site Plan which contains minor deficiencies, such as a missing label, omission of a required note or minor construction detail, as determined by the Township, the Township may accept a re-submission of such SWM Site Plan without the requirement of a review fee, or for a lesser fee as provided for in the Township fee schedule.

Section 405. Re-submission of Disapproved SWM Site Plans

A disapproved SWM Site Plan may be resubmitted, with the revisions addressing the Township's concerns as stated regarding the original submission, to the Township in accordance with this Article. The applicable review fee must accompany the submission of a revised SWM Site Plan, unless such fee is waived by the Township (See Section 404).

Section 406. Authorization to Construct and Term of Validity

A. SWM Site Plans Independent of Subdivision and Land Development Plans

The Township's approval of a SWM Site Plan, when such Plan is submitted independent of a subdivision and/or land development plan, authorizes the regulated activities contained in the SWM Site Plan for a maximum term of validity of five (5) years following the date of approval. The Township may, in its sole discretion, specify a term of validity shorter than five (5) years in the approval for any specific SWM Site Plan, particularly if the nature of the proposed SWM facilities requires more frequent maintenance and/or short-term replacement of certain components. Terms of validity shall commence on the date the Township signs the approval for an SWM Site Plan. If an approved SWM Site Plan is not completed according to Section 407 within the term of validity, then the Township may consider the SWM Site Plan disapproved and may revoke any and all permits. SWM Site Plans that are considered disapproved by the Township may be resubmitted in accordance with Section 405 of this Ordinance.

B. SWM Site Plans Included in a Subdivision and/or Land Development Plan

The Township's approval of a SWM Site Plan, which is a part of a subdivision and/or land development plan, authorizes that plan and the regulated activities therein so that no subsequent change or amendment in this Ordinance or other governing ordinances or plans shall be applied to affect adversely the right of the applicant to commence and to complete any aspect of the approved development in accordance with the terms of such approval within five years from such approval, as specified in Section 508. (4) (ii) - (vii) of the Pennsylvania Municipalities Planning Code.

Section 407. As-Built Plans, Completion Certificate, and Final Inspection

- A. The developer shall be responsible for providing as-built plans of all SWM BMPs included in the approved SWM Site Plan. The as-built plans and an explanation of any discrepancies with the construction plans shall be submitted to the Township.
- B. The as-built submission shall include a certification of completion signed by a qualified person verifying that all permanent SWM BMPs have been constructed according to the approved plans and specifications. If any licensed qualified person contributed to the construction plans, then a licensed qualified person must sign the completion certificate.
- C. After receipt of the completion certification by the Township, the Township may conduct a final inspection to verify compliance with, and accuracy of, the as-built plans.

D. The financial guarantee, as discussed under Section 503, shall not be released by the Township until the items of this Section are completed.

ARTICLE V - OPERATION AND MAINTENANCE

Section 501. Responsibilities of Developers and Landowners

- A. The Township shall make the final determination on the continuing maintenance responsibilities prior to final approval of the SWM Site Plan. The Township may require a dedication of such facilities as part of the requirements for approval of the SWM Site Plan. Such a requirement is not an indication that the Township will accept the facilities. The Township reserves the right to accept or reject the ownership, maintenance, and operating responsibility for any portion of the stormwater management facilities and controls.
- B. Facilities, areas, or structures included in the SWM Site Plan and used as Stormwater Management BMPs shall be enumerated as permanent real estate appurtenances and recorded in the York County Recorder of Deeds Office as deed restrictions/protective covenants or easements that run with the land.
- C. The Operation and Maintenance (O&M) Plan shall be recorded as a restrictive deed covenant that runs with the land.
- D. The Township may take enforcement actions against an owner for any failure to satisfy the provisions of this Article.
- E. No person shall modify, remove, fill, landscape, or alter any SWM BMPs, facilities, areas, or structures without the written approval of the Township, with the exception of necessary maintenance activities such as mowing.

Section 502. Operation and Maintenance Agreements

- A. Prior to final approval of the SWM Site Plan, the property owner shall sign and record an Operation and Maintenance (O&M) Agreement (see Appendix A) covering all stormwater control facilities which are to be privately owned.
 - 1. The owner, successor and assigns shall maintain all facilities in accordance with the approved maintenance schedule in the O&M Plan.
 - 2. The owner shall convey to the Township easements to assure access for periodic inspections by the Township and maintenance, as necessary.
 - 3. The owner shall keep on file with the Township the name, address, and telephone number of the person or company responsible for maintenance activities; in the event of a change, new information shall be submitted by the owner to the Township within ten (10) working days of the change.
- B. The owner is responsible for operation and maintenance (O&M) of the SWM BMPs. If the owner fails to adhere to the O&M Agreement, the Township may perform the services required and charge the owner appropriate fees. Nonpayment of fees may result in a lien against the property.

C. The Township is exempt from the requirement to sign and record an Operation and Maintenance Agreement.

Section 503. Performance Guarantee

For SWM Site Plans that involve subdivision and land development, the applicant shall provide a financial guarantee to the Township for the timely installation and proper construction of all stormwater management controls as required by the approved SWM Site Plan and this Ordinance in accordance with the provisions of Sections 509, 510, and 511 of the Pennsylvania Municipalities Planning Code.

Section 504. Maintenance Guarantee

For SWM Site Plans that involve the dedication of all or some of the required improvements following completion, the Township may require the posting of financial security to secure structural integrity of said improvements as well as the functioning of said improvements in accordance with the design and specifications as depicted on the SWM Site Plan for a term not to exceed 18 months from the date of acceptance of dedication. Said financial security shall be of the same type as otherwise required in Section 503 with regard to installation of such improvements, and the amount of the financial security shall not exceed 15% of the actual cost of installation of said improvements in accordance with the provisions of Section 509 of the Pennsylvania Municipalities Planning Code.

Section 505. Municipal Stormwater Maintenance Fund

A. Persons installing stormwater storage facilities shall be required to pay a specified amount to the Municipal Stormwater Maintenance Fund to help defray costs of periodic inspections and maintenance expenses. The amount of the deposit shall be determined as follows:

1. If the storage facility is to be privately owned and maintained, the deposit shall cover the cost of periodic inspections performed by Township for a period of ten (10) years, as estimated by the Township Engineer. After that period of time, inspections expenses will be assessed by Township on an as needed basis thereafter.
2. If the storage facility is to be owned and maintained by Township, the deposit shall cover the estimated costs for maintenance and inspections for ten (10) years. The Township Engineer will establish the estimated costs utilizing information submitted by the applicant.
3. The amount of the deposit to the fund shall be converted to present worth of the annual series values. The Township Engineer shall determine the present worth equivalents which shall be subject to the approval of the governing body.
4. The general formula for calculating the annual inspection fee shall be as follows:

a. $I_{Ti} \times I_R \times N_i = I_{Ci}$

- b. $I_{Ci} + I_{Cii} + \dots = I_C$
- c. $.25 (I_C) = A_C$
- d. $I_C + A_C = \text{Annual Inspection Cost}$
- e. Where:
 - i. $I_{Ti} = \text{Inspection Time per SWM BMP (Varies per BMP)}$
 - ii. $I_R = \text{Inspection Rate (Varies per Year)}$
 - iii. $N_i = \text{Quantity of Particular SWM BMP}$
 - iv. $I_{Ci} = \text{Inspection Cost for Particular SWM BMP}$
 - v. $I_C = \text{Total Inspection Cost of all SWM BMPs}$
 - vi. $A_C = \text{Administrative Cost}$

ARTICLE VI - FEES AND EXPENSES

Section 601. General

- A. The developer shall be required to submit a Subdivision/Land Development or Building Permit Application prior to any stormwater management facilities construction. The fee for plan reviews, permit issuance, and inspections shall be established by Resolution of the Board of Supervisors to defray the following expenses:
1. The review of the Stormwater Management/Erosion and Sedimentation Control Plan by the Township Engineer.
 2. The site inspections.
 3. The inspection of stormwater management facilities and drainage improvements during construction.
 4. The final inspection upon completion of the stormwater management facilities and drainage improvements presented in the Stormwater Management/Erosion and Sedimentation Control Plan.
 5. Any additional work required to enforce any permit provisions regulated by this Ordinance, correct violations, and assure proper completion of stipulated remedial actions.
- B. All fees shall be paid by the Applicant at the time of application and shall be included in the required deposit for review of Subdivision/Land Development Plans.

Any additional costs incurred by Township in the administration of this Ordinance shall be charged to the applicant and shall be paid promptly by the Applicant. Upon completion of the construction of the stormwater management facility and upon final approval thereof by the Township Engineer, any monies in excess of the Township's costs or expenses deposited by the Applicant shall be refunded to the Applicant.

ARTICLE VII – DETECTION AND ELIMINATION OF ILLICIT DISCHARGES TO THE MUNICIPAL SEPARATE STORM SEWER SYSTEM

Section 701. Ultimate Responsibility

- A. The standards set forth herein and promulgated by this Article are minimum standards; therefore, this Article does not intend nor imply that compliance by any person will ensure that there will be no contamination, pollution, nor unauthorized discharge of pollutants.

Section 702. Prohibition of Illicit Discharges

- A. No person shall discharge or cause to be discharged in to storm drain system or waters of this Commonwealth any materials, including, but not limited to, pollutants or waters containing pollutants that cause or contribute to a violation of applicable water quality standards, other than stormwater. Any discharge in violation of the Article shall be considered illicit discharges, except as exempted below.
- B. The commencement, conduct or continuance of any illicit discharge to the storm drain system or Waters of this Commonwealth is prohibited except as follows:

- Discharges from firefighting activities	- Flows from riparian habitats and wetlands
- Potable water sources including water line flushing	- Uncontaminated water from foundations or from footing drains
- Irrigation drainage	- Lawn watering
- Air conditioning condensate	- Dechlorinated swimming pool discharges (less than one PPM chlorine)
- Springs	- Uncontaminated groundwater
- Water from crawl space pumps	- Water from individual residential car washing
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material has been removed) and where detergents are not used	- Routine external building wash down (which does not use detergents or other compounds)
- Diverted stream flows	- Water discharged in well testing for potable water sources
- Groundwater Infiltration to Storm Drains	- Uncontaminated Pumped Groundwater
- Crawl Space Pumps	

1. Discharges specified in writing by the Township as being necessary to protect public health and safety.
2. Dye testing is an allowable discharge, but requires a verbal notification to the Township 48 hours prior to the time of the test

3. The prohibition shall not apply to any non-stormwater discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of DEP; provided, that the discharge is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations; and, provided, that written approval has been granted for any discharge to the storm drain system and/or Waters of this Commonwealth.
- C. In the event that the Township or DEP determines that any of the discharges identified in Section 702.B significantly contribute to pollution of the waters of this Commonwealth, Township or DEP will notify the responsible person(s) to cease the discharge.

Section 703. Prohibition of Illicit Connections

- A. The construction, use, maintenance or continued existence of Illicit Connections to the storm drain system is prohibited.
1. This prohibition expressly includes, without limitation, Illicit Connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
 2. A person is considered to be in violation of this Article if the person connects a line conveying sewage to the MS4, or allows such a connection to continue.

Section 704. Suspension of MS4 Access

- A. *Suspension due to Illicit Discharges in Emergency Situations.* The Township, the Commonwealth of Pennsylvania and the United States of America may, without prior notice, suspend MS4 discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or to the MS4 or Waters of the Commonwealth of Pennsylvania, or the United States. If the violator fails to comply with a suspension order issued in an emergency, the Township may take such steps as deemed necessary to prevent or minimize damage to the MS4 or Waters of the Commonwealth of Pennsylvania or United States, or to minimize danger to persons, including, without limitations, entering the property for the purpose of disconnecting and/or performing emergency maintenance or repairs to storm sewers. In the event the Township must disconnect or perform emergency maintenance and/or repairs, the Township may file and attach a municipal lien on the property which is causing Illicit Discharge.
- B. *Suspension due to the Detection of Illicit Discharge or Illicit Connection.* Any person discharging to the MS4 in violation of this Article may have their MS4 access terminated if such termination would abate or reduce an Illicit Discharge or Illicit Connection. The Township will notify a violator of the proposed termination of its MS4 access. The violator may petition the Township for a reconsideration and hearing.

- C. A person commits an offense if the person reinstates MS4 access to premises terminated pursuant to this Section, without the prior approval of the authorized enforcement agency.

Section 705. Industrial or Construction Activity Discharges

Any person subject to an industrial or construction activity NPDES storm water discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the Township prior to the allowing of discharges to the MS4.

Section 706. Monitoring of Discharges

A. Applicability

This section applies to all facilities that have storm water discharges associated with industrial activity, including construction activity.

B. Access to Facilities.

1. The Township shall be permitted to enter and inspect facilities subject to regulation under this Article as often as may be necessary to determine compliance with this Article. If a discharger has security measures in force which require proper identification and clearance before entry into its premises, the discharger shall make the necessary arrangements to allow access to representatives of the Township.
2. Facility operators shall allow the Township ready access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records that must be kept under the conditions of an NPDES permit to discharge storm water, and the performance of any additional duties as defined by state and federal law.
3. The Township shall have the right to set up on any permitted facility such devices as are necessary in the opinion of the Township to conduct monitoring and/or sampling of the facility's storm water discharge.
4. The Township has the right to require the discharger to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its own expense. All devices used to measure stormwater flow and quality shall be calibrated to ensure their accuracy.
5. Any temporary or permanent obstruction to safe and easy access to the facility to be inspected and/or sampled shall be promptly removed by the operator at the written or oral request of the Township and shall not be replaced. The costs of clearing such access shall be borne by the operator.
6. Unreasonable delays in allowing the Township access to a permitted facility are a violation of a storm water discharge permit and of this Article. A person who is the operator of a facility with a NPDES permit to discharge storm water

associated with industrial activity commits an offense if the person denies the Township reasonable access to the permitted facility for the purpose of conducting any activity authorized or required by this Article.

7. If the Township has been refused access to any part of the premises from which stormwater is discharged, and the Township representative is able to demonstrate probable cause to believe that there may be a violation of this Ordinance, or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this Article or any order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then the authorized enforcement agency may seek issuance of a search warrant from any court of competent jurisdiction.

Section 707. Requirements to Prevent, Control and Reduce Stormwater Pollutants by the Use of BMPs

The Township will adopt requirements identifying Best Management Practices for any activity, operation, or facility which may cause or contribute to pollution or contamination of storm water, the storm drain system, or Waters of the Commonwealth of Pennsylvania or the United States. The owner or operator of a commercial or industrial establishment shall provide, at their own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses through the use of these structural and non-structural BMPs. Further, any person responsible for a property or premises, which is, or may be, the source of an Illicit Discharge, may be required to implement, at said person's expense, additional structural and non-structural BMPs to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of storm water associated with industrial activity, to the extent practicable, shall be deemed in compliance with the provisions of this section. These BMPs shall be part of a stormwater pollution prevention plan (SWPP) as necessary for compliance with requirements of the NPDES permit.

Section 708. Watercourse Protection

Every person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the watercourse within the property free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse.

Section 709. Notification of Spills

Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting or may result in Illicit Discharges or pollutants discharging into storm water, the storm drain system, or water of the Commonwealth of Pennsylvania or the United States, said person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of

hazardous materials said person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services. In the event of a release of non-hazardous materials, said person shall notify the authorized enforcement agency in person or by phone or facsimile no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to Township within three business days of the phone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years.

Section 710. Enforcement.

A. Notice of Violation

Whenever the Township finds that a person has violated a prohibition or failed to meet a requirement of this Article, the Township may order compliance by written notice of violation to the responsible person. Such notice may require without limitation:

1. The performance of monitoring, analyses, and reporting;
2. The elimination of Illicit Connections or discharges;
3. That violating discharges, practices, or operations shall cease and desist;
4. The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property; and
5. Payment of a fine to cover administrative and remediation costs; and
6. The implementation of source control or treatment BMPs.

If abatement of a violation and/or restoration of affected property is required, the notice shall set forth a deadline within which such remediation or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work will be done by a designated governmental agency or a contractor and the expense thereof shall be charged to the violator or assessed as a municipal lien on the property.

Section 711. Appeals of Notice of Violation

Any person receiving a Notice of Violation may appeal the determination of the Township. The notice of appeal must be received within 30 days from the date of the Notice of Violation. A hearing on the appeal before the appropriate authority or his/her designee shall take place within 15 days from the date of receipt of the notice of appeal. The decision of the Township authority or their designee shall be final.

Section 712. Enforcement Measures after Appeal

If the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation, or, in the event of an appeal, within 15 days of the hearing representative's decision upholding the decision of the Township, then representatives of the Township shall enter upon the subject private property and are authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful for any person, owner, agent, or

person in possession of any premises to refuse to allow the Township or designated contractor to enter upon the premises for the purposes set forth above.

Section 713. Cost of Abatement of Violation

- A. Within 30 days after abatement of the violation, the owner of the property will be notified of the cost of abatement, including administrative costs. The property owner may thereafter file a written protest objecting to the amount of the assessment within 30 days. If the amount due is not paid within a timely manner as determined by the decision of the Township or by the expiration of the time in which to file an appeal, the charges shall become a special assessment against the property and shall constitute a Municipal lien on the property for the amount of the assessment.

- B. Any person violating any of the provisions of this Article shall become liable to the Township by reason of such violation. The liability shall be paid in not more than 12 equal payments. Interest at the rate of 12 percent per annum shall be assessed on the balance beginning on the 1st day following discovery of the violation.

Section 714. Injunctive Relief

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Article. If a person has violated or continues to violate the provisions of this Article, the Township may petition for a preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.

Section 715. Compensatory Action

In lieu of enforcement proceedings, penalties, and remedies authorized by this Article, the Township may impose upon a violator, alternative compensatory actions such as storm drain stenciling, attendance at compliance workshops, creek cleanup, etc.

Section 716. Violations Deemed as Public Nuisance

In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this Article is a threat to public health, safety, and welfare, and is declared and deemed a public nuisance, and may be summarily abated or restored at the violator's expense, and/or a civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken.

Section 717. Criminal Prosecution

Any person that has violated or continues to violate any section of this Article VIII shall be subject to criminal prosecution to the fullest extent of the law, and shall be subject to a criminal penalty of \$1,000 dollars per violation per day and/or imprisonment for a period of time not to exceed 90 days.

Section 718. Attorney Fees and Costs

The Township may recover all attorneys' fees, court costs and other expenses associated with enforcement of this Article, either criminal or civil, including sampling and monitoring expenses or other costs of investigation.

Section 719. Remedies not Exclusive

The remedies listed in this Article are not exclusive of any other remedies available under any applicable federal, state or local law and it is within the discretion of the Township to seek cumulative remedies.

ARTICLE VIII - ENFORCEMENT AND PENALTIES

Section 801. Right-of-Entry

Upon presentation of proper credentials, the Township may enter at reasonable times upon any property within the Township to inspect the condition of the stormwater structures and facilities in regard to any aspect regulated by this Ordinance.

Section 802. Inspection

SWM BMPs included in the approved SWM Site Plan shall be inspected by the landowner, or the owner's designee, including the Township for dedicated and owned facilities, according to the following list of minimum frequencies:

- A. Annually.
- B. During or immediately after the cessation of a 10-year or greater storm.
- C. A report of all inspections shall be submitted to the Township annually.
- D. All inspection records shall be maintained by the landowner and shall be made available to the Township upon written request

Section 803. Notification

In the event that a person fails to comply with the requirements of this Ordinance, or fails to conform to the requirements of any permit issued hereunder, the Township shall provide written notification of the violation. Such notification shall set forth the nature of the violations and establish a time limit for the correction of these violation(s). Failure to comply within the time specified shall subject such person to the penalty provisions of this Ordinance. All such penalties shall be deemed cumulative and does not prevent the Township from pursuing any and all remedies. It shall be the responsibility of the Owner of the real property on which any Regulated Activity is proposed to occur, is occurring, or has occurred, to comply with the terms and conditions of this Ordinance.

Section 804. Enforcement

- A. It shall be unlawful for a person to undertake any regulated activity except as provided in an approved SWM Site Plan, unless specifically exempted in Section 302.
- B. It shall be unlawful to violate any Section of this Ordinance.
- C. Inspections regarding compliance with the SWM Site Plan are a responsibility of the Township.

Section 805. Suspension and Revocation

- A. Any approval or permit issued by the Township pursuant to this Ordinance may be suspended or revoked for:

1. Non-compliance with or failure to implement any provision of the approved SWM Site Plan or O&M Agreement.
 2. A violation of any provision of this Ordinance or any other applicable law, ordinance, rule, or regulation relating to the Regulated Activity.
 4. The creation of any condition or the commission of any act during the Regulated Activity which constitutes or creates a hazard, nuisance, pollution, or endangers the life or property of others.
- B. A suspended approval shall be reinstated by the Township when:
1. The Township has inspected and approved the corrections to the violations that caused the suspension.
 2. The Township is satisfied that the violation has been corrected.
- C. An approval that has been revoked by the Township cannot be reinstated. The applicant may apply for a new approval under the provisions of this Ordinance.
- D. If a violation causes no immediate danger to life, public health, or property, at its sole discretion, the Township may provide a limited time period for the owner to correct the violation. In these cases, the Township will provide the owner, or the owner's designee, with a written notice of the violation and the time period allowed for the owner to correct the violation. If the owner does not correct the violation within the allowed time period, the Township may revoke or suspend any, or all, applicable approvals and permits pertaining to any provision of this Ordinance.

Section 806. Penalties

- A. Anyone violating the provisions of this Ordinance shall be guilty of a summary offense, and, upon conviction, shall be subject to a fine of not more than \$1,000.00 for each violation, recoverable with costs. Each day that the violation continues shall be a separate offense.
- B. The Township may institute injunctive, mandamus, or any other appropriate action or proceeding at law or in equity for the enforcement of this Ordinance. Any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, mandamus or other appropriate forms of remedy or relief.

Section 807. Appeals

- A. Any person aggrieved by any action of the Township or its designee, relevant to the provisions of this Ordinance, may appeal to the Board of Supervisors within 30 days of that action.
- B. Any person aggrieved by any decision of the Township, relevant to the provisions of this Ordinance, may appeal to the York County Court of Common Pleas within 30 days of the Township's decision.

ARTICLE IX - REFERENCES

1. Pennsylvania Department of Environmental Protection. No. 363-0300-002 (December 2006), as amended and updated. Pennsylvania Stormwater Best Management Practices Manual. Harrisburg, PA.
2. Pennsylvania Department of Environmental Protection. No. 363-2134-008 (April 15, 2000), as amended and updated. Erosion and Sediment Pollution Control Program Manual. Harrisburg, PA.
3. U.S. Department of Agriculture, National Resources Conservation Service (NRCS). National Engineering Handbook. Part 630: Hydrology, 1969-2001. Originally published as the National Engineering Handbook, Section 4: Hydrology. Available from the NRCS online at: <http://www.nrcs.usda.gov/>.
4. U.S. Department of Agriculture, Natural Resources Conservation Service. 1986. Technical Release 55: Urban Hydrology for Small Watersheds, 2nd Edition. Washington, D.C.
5. U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, Hydrometeorological Design Studies Center. 2004-2006. Precipitation-Frequency Atlas of the United States, Atlas 14, Volume 2, Version 3.0, Silver Spring, Maryland. Internet address: <http://hdsc.nws.noaa.gov/hdsc/pfds/>.
6. Act of July 31, 1968, P.L. 85, No.247, The Pennsylvania Municipalities Planning Code, as amended.

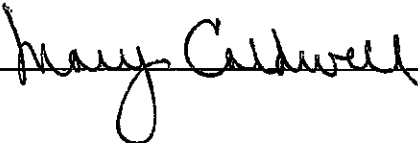
ARTICLE X - ENACTMENT

Lower Windsor Township Stormwater Ordinance

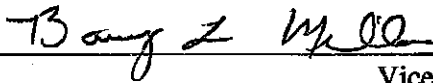
ENACTED and **ORDAINED** at a regular meeting of the
Board of Supervisors

on this 14th day of June, 2012.

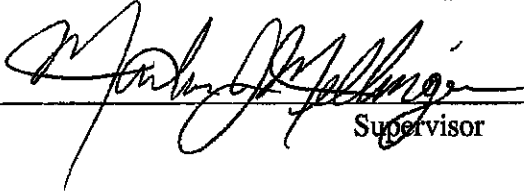
This Ordinance shall take effect as provided by law.



Chairperson




Vice Chairperson



Supervisor

ATTEST:



Secretary

APPENDIX A

Long Form - This form should be used for plans submitted with Subdivision and Land Development Applications.

STORMWATER OPERATION AND MAINTENANCE AND RIGHT-OF-WAY AGREEMENT

THIS AGREEMENT is made and entered into this ____ day of _____, 20____, by and among _____ [Developer], its/his/her successors, heirs, personal representatives and assigns, including any homeowners association or the owners of any subdivided lots ("Landowner"), and _____ Township, York County, Pennsylvania, ("Township").

WITNESSETH

WHEREAS, the Landowner is the owner of real property located in _____ Township, York County, as more fully described in the land records of York County, Pennsylvania, at Deed Book _____, Page _____, UPI No. _____, with a street address of _____ (the "Property").

WHEREAS, the Landowner is proceeding to build and develop the Property; and

WHEREAS, the Subdivision/Land Development Plan ("Subdivision Plan") for the _____ [Name of Subdivision] which is expressly made a part hereof, as approved or to be approved by the Township and recorded in part with the land records of York County, Pennsylvania, provides for the management of stormwater within the confines of the Property pursuant to a SWM Site Plan (the "SWM Site Plan"); and

WHEREAS, the SWM Site Plan includes a SWM Operation and Maintenance Plan approved by the Township (the "O&M Plan") for the Property, [which is attached hereto as Appendix A and made a part hereof/which is on file at the Township offices and made a part hereof] which provides for the establishment, operation and maintenance of SWM facilities and BMPs; and

WHEREAS, the Township and the Landowner agree that the health, safety and welfare of the residents of the Township and the protection and maintenance of water quality require that SWM facilities be established, constructed and maintained on the Property; and

WHEREAS, the Township requires, through the implementation of the Township's Stormwater Management Ordinance, Ordinance No. 2011-03 (the "Stormwater Ordinance"), that SWM facilities and BMPs as required by the SWM Site Plan and the Stormwater Ordinance be established, constructed and adequately operated and maintained by the Landowner in accordance with the O&M Plan.

NOW, THEREFORE, in consideration of the foregoing promises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

Section 1. Unless otherwise defined in this Agreement, the terms used herein shall have the meaning given to them in the Stormwater Ordinance, as amended.

Section 2. The Landowner shall establish and/or construct the SWM facilities and BMPs in accordance with the terms, conditions and specifications identified in the SWM Site Plan. Except when expressly allowed by the Stormwater Ordinance, the Landowner shall not alter, modify, replace, relocate or in any way interfere with any SWM facilities or BMPs without the prior written permission of the Township.

Section 3. The Landowner shall adequately maintain the SWM facilities and BMPs shown on the SWM Site Plan in good working order in accordance with the specific O&M requirements set forth in the O&M Plan. This includes all swales, pipes, channels built to convey and control stormwater, as well as all SWM BMP structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate O&M is defined as good working condition, acceptable to the Township, so those facilities are performing their design functions and not having any adverse effects on water quality or adjoining or nearby roads, structures or properties. Adequate O&M will not be demonstrated merely by strict compliance with the SWM Site Plan or O&M Plan where the SWM Site Plan and O&M Plan are inadequate for stormwater management in the field.

Section 4. The Landowner hereby grants permission to the Township, its authorized agents and employees, to enter upon the Property at reasonable times and to inspect the SWM facilities and BMPs whenever the Township deems necessary. The purpose of the inspection is to assure safe and proper functioning of the SWM facilities and BMPs. The inspection shall cover the entire SWM facilities, BMPs, swales, outlet structures, pond areas, access roads, etc. Whenever possible, the Township shall notify the Landowner prior to entering the Property.

Section 5. The Township may inspect the SWM facilities and BMPs annually for the first 5 years, and every third year thereafter, to ensure continued functioning. The Township may inspect the SWM facilities and BMPs at more or less frequent intervals and at other times as set out in the Stormwater Ordinance, as amended from time to time.

Section 6. When inspections are conducted, the Township shall give the Landowner, if requested, copies of the inspection report with findings and evaluations. All reasonable costs for inspections of SWM facilities and BMPs shall be borne by the Landowner and payable to the Township.

Section 7. In the event the Landowner fails to maintain the SWM facilities and/or BMPs, in accordance with Section 3, the Township or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain the SWM facilities and BMPs. It is expressly understood and agreed that the Township is under no obligation to maintain or repair said SWM facilities and BMPs and in no event shall this Agreement be construed to impose any such obligation on the Township.

Section 8. The Landowner hereby conveys to the Township easements and/or rights-of-way to assure access for periodic inspections by the Township and repair of the SWM facilities and BMPs, if necessary, as set forth more specifically in Appendix [A/B]. The Landowner shall not plant in, construct on or otherwise alter the right-of-way granted herein in any way that interferes or impedes the Township's access.

Section 9. In the event the Township, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like on account of the Landowner's or his successors' and assigns' failure to perform such work, the Landowner shall reimburse the Township upon demand, within 30 days of receipt of invoice thereof, for all costs, including engineer and attorney fees, incurred by the Township hereunder. If not paid within said 30-day period, the Township may enter a municipal lien against the property in the amount of such costs, or may proceed to recover his costs through proceedings in equity or at law as authorized under the provisions of the Municipal Claims and Tax Lien Act, 53 P.S. § 7101 *et seq.*

Section 10. The Landowner shall indemnify the Township, its agents and employees, against any and all damages, accidents, casualties, occurrences, claims and costs, including engineering and attorney fees, which might arise or be asserted against the Township for the construction, presence, existence or maintenance and operation or lack thereof of the SWM facilities and BMPs by the Landowner.

Section 11. In the event a claim is asserted against the Township, its agents or employees, the Township shall promptly notify the Landowner and they shall defend, at their own expense, any suit based on such claim. If any judgment or claims against the Township, its agents or employees, are allowed, the Landowner shall pay all costs and expenses (including attorney fees) in connection therewith.

Section 12. The Landowner shall release the Township, its supervisors, employees, officers, agents and representatives, from all damages, accidents, casualties, occurrences or claims which might arise or be asserted against said persons from the construction, presence, existence or maintenance of the SWM facilities and BMPs by Landowner or Township.

Section 13. In the event Landowner's obligations under this Agreement will be assigned or transferred to a successor owner (whether to a developer or individual lot owners, or to a homeowners' association, condominium association or similar form of cooperative ownership), the Landowner's obligations under this Agreement shall become joint and several obligations of the successors and assigns.

Section 14. The Township disclaims all liability for design, construction, installation or operation defects. The grant of a permit or approval of a subdivision and/or land development plan shall not constitute a representation, guarantee, or warranty of any kind or liability upon the Township, its officials, or employees.

Section 15. None of the conditions or covenants contained in this Agreement shall be deemed a waiver of Township's rights or immunities granted by statute. Such immunities shall not relieve the Landowner of the duty to defend or hold Township harmless from claims arising

out of conduct of the Landowner initiated pursuant to the terms of this Agreement.

Section 16. Should any provision of this Agreement be interpreted to conflict with the Stormwater Ordinance, as amended or superseded, the provisions and requirements of the Stormwater Ordinance shall control interpretation. Should any provision of this Agreement be determined by a court to be unenforceable, such provision of this Agreement shall be deemed to be void; provided, however, the balance of the Agreement shall remain in full force and effect.

Section 17. This Agreement shall be recorded in the land records of York County, Pennsylvania and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, its/his/her successors, receivers, heirs, personal representatives and assigns, in perpetuity. Landowner will reference this Agreement and recording information in any deeds transferring or conveying the Property or any subdivided outparcels thereof.

Section 18. A violation or breach of this Agreement shall be deemed a violation of the Stormwater Ordinance, as amended, which shall be subject to all remedies and enforcement set forth therein. Landowner shall be responsible for all costs of enforcement (including attorney fees) of this Agreement, which costs shall be reimbursed to the Township upon demand within 30 days of the receipt of an invoice thereof. All invoiced amounts due under this Agreement for administration, maintenance, enforcement or otherwise that remain unpaid after 30 days from the date of invoice shall be assessed interest at the rate of 12% per annum until paid in full.

Section 19. This Agreement may only be amended by a written amendment executed by the party against whom enforcement is sought.

ATTEST/WITNESS:

LOWER WINDSOR TOWNSHIP

Secretary

[DEVELOPER]

By: _____, General Partner

Name:

Title:

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this the ____ day of _____, 20____, before me, the undersigned officer, personally appeared _____, who acknowledged himself to be the Chairman of Lower Windsor Township Board of Supervisors, a Second Class Township organized and existing under the laws of Pennsylvania, and that he as such Chairman, being authorized to do so, executed the foregoing document for the purposes therein contained by signing the name of the township by himself as Chairman.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this the ____ day of _____, 20____, before me, the undersigned officer, personally appeared _____, _____, on behalf of _____, a _____ limited partnership, who executes this document and acknowledges he is authorized to do so and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

Short Form - This form should be used for plans proposing regulated activities on a single lot.

**STORMWATER OPERATION AND MAINTENANCE
AND RIGHT-OF-WAY AGREEMENT**

THIS AGREEMENT is made and entered into this ____ day of _____, 20____, by and among _____ **[Builder]**, its/his/her successors, heirs, personal representatives and assigns, including specifically any future lot owner ("Landowner"), and _____ Township, York County, Pennsylvania, ("Township").

WITNESSETH

WHEREAS, the Landowner is the owner of real property located in _____ Township, York County, commonly known as [street address], with a UPI No. _____ (the "Property").

WHEREAS, the Landowner is proceeding to build on and/or further develop impervious surface on the Property; and

WHEREAS, the SWM Site Plan (the "SWM Site Plan") which is expressly made a part hereof, as approved or to be approved by the Township, provides for the management of stormwater within the confines of the Property; and

WHEREAS, the SWM Site Plan includes a SWM Operation and Maintenance Plan approved by the Township (the "O&M Plan") for the Property, [which is attached hereto as Appendix A and made a part hereof/which is on file at the Township offices and made a part hereof] which provides for the establishment, operation and maintenance of SWM facilities and BMPs; and

WHEREAS, the Township and the Landowner agree that the health, safety and welfare of the residents of the Township and the protection and maintenance of water quality require that SWM facilities and BMPs be established, constructed and maintained on the Property; and

WHEREAS, the Township requires, through the implementation of the Township's Stormwater Management Ordinance, Ordinance No. 2012-03 (the "Stormwater Ordinance"), that SWM facilities and BMPs as required by the SWM Site Plan and the Stormwater Ordinance be established, constructed and adequately operated and maintained by the Landowner in accordance with the O&M Plan.

NOW, THEREFORE, in consideration of the foregoing promises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

Section 1. Unless otherwise defined in this Agreement, the terms used herein shall have the meaning given to them in the Stormwater Ordinance, as amended.

Section 2. The Landowner shall establish and/or construct the SWM facilities and BMPs in accordance with the terms, conditions and specifications identified in the SWM Site Plan. Except when expressly allowed by the Stormwater Ordinance, the Landowner shall not alter, modify, replace, relocate or in any way interfere with any SWM facilities or BMPs without the prior written permission of the Township.

Section 3. The Landowner shall adequately maintain the SWM facilities and BMPs shown on the SWM Site Plan in good working order in accordance with the specific O&M requirements set forth in the O&M Plan. This includes all swales, pipes, channels built to convey and control stormwater, as well as all SWM BMP structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate O&M is defined as good working condition, acceptable to the Township, so those facilities are performing their design functions and not having any adverse effects on water quality or adjoining or nearby roads, structures or properties. Adequate O&M will not be demonstrated merely by strict compliance with the SWM Site Plan or O&M Plan where the SWM Site Plan and O&M Plan are inadequate for stormwater management in the field.

Section 4. The Landowner hereby grants to the Township an easement appurtenant for the periodic inspections by the Township and repair of the SWM facilities and BMPs, if necessary. The Landowner may choose and periodically modify the easement location so long as the Landowner at all times maintains or provides an unobstructed means for access to and emergency maintenance of the SWM facilities and BMPs. The Township shall not be liable for restoration of the Property in the event of emergency maintenance or for any damages due to failure of the Landowner to provide unobstructed access to the SWM facilities and BMPs. Whenever possible, the Township shall notify the Landowner prior to entering the Property.

Section 5. In the event the Landowner fails to maintain the SWM facilities and/or BMPs in accordance with Section 3, the Township or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain the SWM facilities and BMPs. It is expressly understood and agreed that the Township is under no obligation to maintain or repair said SWM facilities and BMPs, and in no event shall this Agreement be construed to impose any such obligation on the Township.

Section 6. In the event the Township, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like on account of the Landowner's failure to perform such work, the Landowner shall reimburse the Township upon demand, within 30 days of receipt of invoice thereof, for all costs, including engineer and attorney fees, incurred by the Township hereunder. If not paid within said 30-day period, the Township may enter a municipal lien against the property in the amount of such costs, or may proceed to recover his costs through proceedings in equity or at law as authorized under the provisions of the Municipal Claims and Tax Lien Act, 53 P.S. § 7101 *et seq.*

Section 7. The Landowner shall release the Township, its supervisors, employees, officers, agents and representatives, from all damages, accidents, casualties, occurrences or claims which might arise or be asserted against said persons from the construction, presence, existence or maintenance of the SWM facilities and BMPs by Landowner or Township. The

Township disclaims all liability for design, construction, installation or operation defects. The grant of a permit or approval of a subdivision and/or land development plan shall not constitute a representation, guarantee, or warranty of any kind or liability upon the Township, its officials, or employees. None of the conditions or covenants contained in this Agreement shall be deemed a waiver of Township's rights or immunities granted by statute.

Section 8. Should any provision of this Agreement be interpreted to conflict with the Stormwater Ordinance, as amended or superseded, the provisions and requirements of the Stormwater Ordinance shall control interpretation. Should any provision of this Agreement be determined by a court to be unenforceable, such provision of this Agreement shall be deemed to be void; provided, however, the balance of the Agreement shall remain in full force and effect.

Section 9. This Agreement shall be recorded in the land records of York County, Pennsylvania and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, its/his/her successors, receivers, heirs, personal representatives and assigns, in perpetuity. Landowner will reference this Agreement and recording information in any deeds transferring or conveying the Property or any subdivided outparcels thereof.

Section 10. The laws of the Commonwealth of Pennsylvania shall govern the interpretation of this Agreement. Jurisdiction and venue shall be exclusively in the county in which the Property is located. The obligations and duties of the Landowner under this Agreement shall be specifically enforceable by the Township, and the Landowner agrees that a court shall have the specific authority to order compliance with this Agreement in the form of a preliminary injunction or other equitable relief.

Section 11. A violation or breach of this Agreement shall be deemed a violation of the Stormwater Ordinance, as amended, which shall be subject to all remedies and enforcement set forth therein. Landowner shall be responsible for all costs of enforcement (including attorney fees) of this Agreement, which costs shall be reimbursed to the Township upon demand within 30 days of the receipt of an invoice thereof. All invoiced amounts due under this Agreement for administration, maintenance, enforcement or otherwise that remain unpaid after 30 days from the date of invoice shall be assessed interest at the rate of 12% per annum until paid in full.

Section 12. This Agreement may only be amended by a written amendment executed by the party against whom enforcement is sought.

ATTEST/WITNESS:

LOWER WINDSOR TOWNSHIP

Secretary

[LANDOWNER]

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this the ____ day of _____, 20__, before me, the undersigned officer, personally appeared _____, who acknowledged himself to be the Chairman of Lower Windsor Township Board of Supervisors, a Second Class Township organized and existing under the laws of Pennsylvania, and that he as such Chairman, being authorized to do so, executed the foregoing document for the purposes therein contained by signing the name of the township by himself as Chairman.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this the ____ day of _____, 20__, before me, the undersigned officer, personally appeared _____, _____, who executes this document and acknowledges he is authorized to do so and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Notary Public

APPENDIX B

DISCONNECTED IMPERVIOUS AREA (DIA)

B.1. Rooftop Disconnection

When rooftop down spouts are directed to a pervious area that allows for infiltration, filtration, and increased time of concentration, the rooftop may qualify as completely or partially DIA and a portion of the impervious rooftop area may be excluded from the calculation of total impervious area.

A rooftop is considered to be completely or partially disconnected if it meets the requirements listed below:

- The contributing area of rooftop to each disconnected discharge is 500 square feet or less, and
- The soil, in proximity of the roof water discharge area, is not designated as hydrologic soil group "D" or equivalent, and
- The overland flow path from roof water discharge area has a positive slope of five percent (5%) or less.

For designs that meet these requirements, the portion of the roof that may be considered disconnected depends on the length of the overland path as designated in Table B.1.

Table B.1: Partial Rooftop Disconnection	
Length of Pervious Flow Path *	Roof Area Treated as Disconnected
(ft)	(% of contributing area)
0 – 14	0
15 – 29	20
30 – 44	40
45 – 59	60
60 – 74	80
75 or more	100

* Flow path cannot include impervious surfaces and must be at least 15 feet from any impervious surfaces.

B.2. Pavement Disconnection

When pavement runoff is directed to a pervious area that allows for infiltration, filtration, and increased time of concentration, the contributing pavement area may qualify as a DIA that may be excluded from the calculation of total impervious area. This applies generally only to small or

narrow pavement structures such as driveways and narrow pathways through otherwise pervious areas, e.g., a walkway or bike path through a park.

Pavement is disconnected if the pavement, or area adjacent to the pavement, meets the requirements below:

- The contributing flow path over impervious area is not more than 75 feet, and
- The length of overland flow is greater than or equal to the contributing length, and
- The soil is not designated as hydrologic soil group "D" or equivalent, and
- The slope of the contributing impervious area is five percent (5%) or less, and
- The slope of the overland flow path is five percent (5%) or less.

If the discharge is concentrated at one or more discrete points, no more than 1,000 square feet may discharge to any one point. In addition, a gravel strip or other spreading device is required for concentrated discharges. For non-concentrated discharges along the edge of the pavement, this requirement is waived; however, there must be a provision for the establishment of vegetation along the pavement edge and temporary stabilization of the area until vegetation becomes stabilized.

REFERENCE

Philadelphia Water Department. 2006. Stormwater Management Guidance Manual. Section 4.2.2: Integrated Site Design. Philadelphia, PA.

TABLE 1
Runoff Curve Numbers
[From NRCS (SCS) TR-55]

LAND USE DESCRIPTION		HYDROLOGIC SOIL GROUP			
		A	B	C	D
Open Space		44	65	77	82
Meadow		30**	58	71	78
Agricultural		59	71	79	83
Forest		36**	60	73	79
Commercial	(85% Impervious)	89	92	94	95
Industrial	(72% Impervious)	81	88	91	93
Institutional	(50% Impervious)	71	82	88	90
Residential					
Average Lot Size	% impervious				
1/8 acre or less*65		77	85	90	92
1/8 - 1/3 acre	34	59	74	82	87
1/3 - 1 acre	23	53	69	80	85
1 - 4 acres	12	46	66	78	82
Farmstead		59	74	82	86
Smooth Surfaces (Concrete, Asphalt, Gravel or Bare Compacted Soil)		98	98	98	98
Water		98	98	98	98
Mining Newly Graded Areas (Pervious Areas Only)		77	86	91	94

* Includes Multi-Family Housing unless justified lower density can be provided.

** Caution - CN values under 40 may produce erroneous modeling results.

NOTE: Site conditions of bare earth or fallow shall be considered as meadow when choosing a CN value for existing undeveloped conditions.

TABLE 2
RATIONAL RUNOFF COEFFICIENTS
 By Hydrologic Soils Group and Overland Slope (%)

Land Use	A			B			C			D		
	0-2%	2-6%	6%+	0-2%	2-6%	6%+	0-2%	2-6%	6%+	0-2%	2-6%	6%+
Pasture	0.12 ^a 0.15 ^b	0.20 0.25	0.30 0.37	0.18 0.23	0.28 0.34	0.37 0.45	0.24 0.30	0.34 0.42	0.44 0.52	0.30 0.37	0.40 0.50	0.50 0.62
Meadow	0.10 0.14	0.16 0.22	0.25 0.30	0.14 0.20	0.22 0.28	0.30 0.37	0.20 0.26	0.28 0.35	0.36 0.44	0.24 0.30	0.30 0.40	0.40 0.50
Forest	0.05 0.08	0.08 0.11	0.11 0.14	0.08 0.10	0.11 0.14	0.14 0.18	0.10 0.12	0.13 0.16	0.16 0.20	0.12 0.15	0.16 0.20	0.20 0.25
Residential												
Lot Size 1/8 Acre	0.25 0.33	0.28 0.37	0.31 0.40	0.27 0.35	0.30 0.39	0.25 0.44	0.30 0.38	0.33 0.42	0.38 0.49	0.33 0.41	0.36 0.45	0.42 0.54
Lot Size 1/4 Acre	0.22 0.30	0.26 0.34	0.29 0.37	0.24 0.33	0.29 0.37	0.33 0.42	0.27 0.36	0.31 0.40	0.36 0.47	0.30 0.38	0.34 0.42	0.40 0.52
Lot Size 1/3 Acre	0.19 0.28	0.23 0.32	0.26 0.35	0.22 0.30	0.26 0.35	0.30 0.39	0.25 0.33	0.29 0.38	0.34 0.45	0.28 0.36	0.32 0.40	0.39 0.50
Lot Size 1/2 Acre	0.16 0.25	0.20 0.29	0.24 0.32	0.19 0.28	0.23 0.32	0.28 0.36	0.22 0.31	0.27 0.35	0.32 0.42	0.26 0.34	0.30 0.38	0.37 0.48
Lot Size 1 Acre	0.14 0.22	0.19 0.26	0.22 0.29	0.17 0.24	0.21 0.28	0.26 0.34	0.20 0.28	0.25 0.32	0.31 0.40	0.24 0.31	0.29 0.35	0.35 0.46
Industrial	0.67 0.85	0.68 0.85	0.68 0.86	0.68 0.85	0.68 0.86	0.69 0.86	0.68 0.86	0.69 0.86	0.69 0.87	0.69 0.86	0.69 0.86	0.70 0.88
Commercial	0.71 0.88	0.71 0.88	0.72 0.89	0.71 0.89	0.72 0.89	0.72 0.89	0.72 0.89	0.72 0.89	0.72 0.90	0.72 0.89	0.72 0.89	0.72 0.90
Streets	0.70 0.76	0.71 0.77	0.71 0.79	0.71 0.80	0.72 0.82	0.74 0.84	0.72 0.84	0.73 0.85	0.76 0.89	0.73 0.89	0.75 0.91	0.78 0.95
Parking	0.85 0.95	0.86 0.96	0.87 0.97	0.85 0.95	0.86 0.96	0.87 0.97	0.85 0.95	0.86 0.96	0.87 0.97	0.85 0.95	0.86 0.96	0.87 0.97

^a Runoff coefficients for storm recurrence intervals less than 25 years.

^b Runoff coefficients for storm recurrence intervals 25 years or more.

Source: Rawls, W.J., S.L. Wong and R.H. McCuen, 1981, "Comparison of Urban Flood Frequency Procedures", Preliminary Draft, U. S. Department of Agriculture, Soil Conservation Service, Baltimore, MD (edited by C.S. Davidson, Inc.)

TABLE 3

**Roughness Coefficients (Manning's "n") for Overland Flow
(U.S. Army Corps Of Engineers, HEC-1 Users Manual)**

<u>Surface Description</u>	<u>n</u>
Dense Growth	0.4 - 0.5
Pasture	0.3 - 0.4
Lawns	0.2 - 0.3
Bluegrass Sod	0.2 - 0.5
Short Grass Prairie	0.1 - 0.2
Sparse Vegetation	0.05 - 0.13
Bare Clay-Loam Soil (eroded)	0.01 - 0.03
Concrete/Asphalt - very shallow depths (less than 1/4 inch)	0.10 - 0.15
- small depths (1/4 inch to several inches)	0.05 - 0.10

**Roughness Coefficients (Manning's "n") for Sheet Flow
(U.S. Soil Conservation Service Technical Release 55)**

<u>Surface Description</u>	<u>n</u>
Smooth Surfaces (concrete, asphalt, gravel, or bare soil)	0.011
Fallow (no residue)	0.05
Cultivated Soils:	
Residue Cover Less Than or 20%	0.06
Residue Cover Greater Than 20%	0.17
Grass:	
Short Grass Prairie	0.15
Dense Grasses	0.24
Bermuda Grass	0.41
Range (natural)	0.13
Woods:	
Light Underbrush	0.40
Dense Underbrush	0.80

**LOWER WINDSOR TOWNSHIP
YORK COUNTY, PENNSYLVANIA**

ORDINANCE NO. 15 -02

**AN ORDINANCE OF LOWER WINDSOR TOWNSHIP, YORK COUNTY,
PENNSYLVANIA, AUTHORIZING AN INTERGOVERNMENTAL COOPERATION
AGREEMENT FOR THE IMPLEMENTATION OF THE YORK COUNTY REGIONAL
CHESAPEAKE BAY POLLUTANT REDUCTION PLAN**

BE IT ENACTED AND ORDAINED, and it is hereby enacted and ordained by the Board of Supervisors of Lower Windsor Township, York County, Pennsylvania (the "Municipality"), as follows:

SECTION 1: Intergovernmental Cooperation. The cooperation with other nearby municipalities to implement a Regional Chesapeake Bay Pollutant Reduction Plan and to share in the costs of administering it is hereby authorized.

SECTION 2: Agreement. The Intergovernmental Cooperation Agreement for the Implementation of the York County Regional Chesapeake Bay Pollutant Reduction Plan (the "Agreement") is attached hereto as Exhibit "A" and incorporated herein by reference. Provisions of the Agreement, include but are not limited to, the following:

- a. The Purpose in the Background in Section 3.
- b. Duration and Term in Section 10.
- c. Financing in Section 8.
- d. Organizational Structure for implementation in Section 4.

The Municipality is hereby authorized to enter into the Agreement. Further, the Municipality may modify the Agreement by subsequent resolution.

SECTION 3: Adoption of Ordinance. This Ordinance is adopted pursuant to the Intergovernmental Cooperation Act, 53 Pa. C.S.A. Section 2301 et seq., and the

authority granted herein shall continue from year to year while the Municipality cooperates pursuant to the Agreement.

SECTION 4: Staff and Officials. The staff and officials of the Municipality are directed and empowered to take all actions necessary or convenient to implement this Ordinance and the Agreement.

SECTION 5: Inconsistency. All Ordinances or parts of Ordinances inconsistent herewith are hereby repealed to the extent of such inconsistency.

SECTION 6: Effective Date. The Ordinance shall become effective five (5) days after date of enactment as provided by law.

ENACTED AND ORDAINED by the Board of Supervisors of Lower Windsor Township this 12th day of February, 2015.

**BOARD OF SUPERVISORS OF
LOWER WINDSOR TOWNSHIP**

BY: Boyan L. Mucic
Chairman
Neil White
Vice Chairman
Paul St. Le
Supervisor

ATTEST:

Maureen Hartman
Asst Secretary

**INTERGOVERNMENTAL COOPERATION AGREEMENT
FOR THE IMPLEMENTATION OF THE
YORK COUNTY REGIONAL CHESAPEAKE BAY
POLLUTANT REDUCTION PLAN**

THIS AGREEMENT is made this 12 day of February, 2016, by and among the York County Planning Commission ("YCPC") and all of the municipalities executing this Intergovernmental Cooperation Agreement for the Implementation of the York County Regional Chesapeake Bay Pollutant Reduction Plan ("Agreement")(collectively, the "Participants" or the "York County Stormwater Consortium" or the "Consortium")(the YCPC and each Participant shall individually be referred to as a "Party" and shall collectively be referred to as the "Parties"). The list of Participants is included as Attachment "B" hereto, and shall be updated by Addendum as necessary.

This Intergovernmental Cooperation Agreement (the "Agreement") is authorized and required pursuant to applicable law, including, but not limited to, 53 Pa.C.S. §2303.

BACKGROUND

A. Municipalities that hold a Pennsylvania Department of Environmental Protection ("DEP") MS4 Permit (regarding stormwater discharges) are required to prepare and implement a Chesapeake Bay Pollutant Reduction Plan ("CBPRP"); and

B. YCPC has led a group of interested local government units through the process of developing a Regional CBPRP (the "Regional Plan"), as an alternative to each of the local government units developing their own Plan; and

C. Certain Best Management Practices ("BMPs") are designed to control stormwater and improve water quality, and are required to be implemented as part of a Pollutant reduction plan; and

D. BMPs or BMP projects require capital expenditures, in some cases, significant capital expenditures; and

E. Participants desire to cooperate to effectuate the cost effective installation of BMPs in order to accomplish annual reduction(s) of nitrogen, phosphorous and sediment discharges into surface waters in York County; and

F. As set forth in this Agreement, all Participants shall share in the cost to implement stormwater and water quality Best Management Practices Projects (individually referred to as a "BMP Project" or collectively "BMP Projects") that are selected by the Participants in accordance with the terms of this Agreement; and

G. The amount of annual financial contribution expected of each Participant is calculated based upon an agreed-upon formula set forth herein; and

H. Participants that hold an MS4 Permit shall be able to report the pollutant reductions achieved by construction of the BMP Projects funded by the Consortium. Such pollutant reductions may be reported in each Participant's annual MS4 permit report to DEP. It is yet undetermined how the reductions will be allocated and/or reported; and

I. The content of the Regional Plan, including BMP Project selection and the level of funding for each BMP Project, shall be determined by the Participants as set forth herein; and

J. The Regional Plan approved by DEP, including any subsequent revisions/amendments thereto, is incorporated by reference herein; and

K. The purpose of this Agreement is to set forth the Parties' agreement as to how the Parties will cooperate to create and revise the Regional Plan, interact with the regulatory agencies regarding MS4 permit requirements, how the Regional Plan will be implemented, how the Consortium will be governed, the process to withdraw, and the obligations of each Participant and the YCPC; and

L. The Parties agree and acknowledge that nothing in this Agreement, nor the resultant actions here from, shall prohibit, prevent, or interfere with any Participant's ability to comply with applicable Pennsylvania law and regulation, Federal law and regulation, applicable regulatory agency rules and policies, permit requirements, DEP directives, or United States Environmental Protection Agency directives, and local ordinance; and

M. All Participants shall adopt an Opt-In Resolution and an Ordinance approving this Agreement to effectuate their participation.

INTENDING TO BE LEGALLY BOUND, THE PARTIES AGREE AS FOLLOWS:

1. **Background.** All of the Background paragraphs hereto are incorporated herein by reference as if fully set forth at length.

2. **Condition Precedent.** Intentionally deleted, at the suggestion of DEP.

3. **Guiding Principles.**

a. The Parties have a mutual interest in restoring the impaired waters of the County and commit to work together in a cooperative manner to implement a Regional Plan that identifies and funds cost effective BMP Projects to reduce the annual amount of nitrogen, phosphorous and sediment entering impaired surface waters in York County, Pennsylvania as efficiently as possible.

b. The Parties agree that priority will be given to BMP Projects located in Participant jurisdictions (excluding non-participating local jurisdictions in York County) or located on York County-owned land. Only the Regional Committee, as defined herein, may revise the Regional Plan and the Annual Action Plan to include BMP Projects located in a non-Participant jurisdiction, by majority vote and where at least a quorum, defined as 50% of the Participants ("Quorum"), is present.

4. **Organization.**

a. **Participant Representation.** Each Participant shall designate a primary voting representative and an alternate to serve as the contact person(s) on all matters related to the Regional Plan. The name of and contact information for the representative and alternate shall be provided to the YCPC in writing, as well as any subsequent changes.

b. **Regional Committee.** The representatives designated by the Participants shall form the Regional Committee. The alternate shall be entitled to fully participate in all Committee meetings, but may vote only when the designated representative is unavailable.

c. **Management Committee.**

(i) **Members.** The Management Committee shall consist of seven (7) voting representatives (primary voting representatives only) from the Regional Committee and the designated representative of the YCPC to serve as Administrator for the Consortium (the "Administrator"). The Administrator shall be a participating but non-voting member of the Management Committee.

(ii) **Election of Management Committee Members.** The members of the Management Committee shall be elected at the Annual Meeting where a Quorum (defined in Section 3.b. above) is present. The Administrator shall solicit for volunteers interested in serving on the Management Committee from all Participants at least sixty (60) days prior to the Annual Meeting. The Administrator shall issue a slate of eligible (i.e. voting primary representative from Participant jurisdiction) and willing volunteer Management Committee candidates to all designated Participant representatives no less than thirty (30) days prior to the Annual Meeting. Each Participant present at the Annual Meeting shall be entitled to one (1) vote for each vacancy on the Management Committee.

Those nominated to serve on the Management Committee and receiving the highest number of votes shall be elected to the Management Committee. Oral voting shall be utilized and continue until all ties are broken.

(iii) Management Committee Term. The members of the Management Committee shall serve a term of one (1) year, to expire at the subsequent Annual Meeting. The Management Committee members shall serve a term of one (1) year, to begin on January 1 after election at the Annual Meeting, and which term shall expire on the following December 31 of that same calendar year. There is no limit to the number of terms that members may serve.

(iv) Management Committee Vacancy. Where a Management Committee member vacates his or her position prior to the end of the term, the Management Committee is authorized to unilaterally appoint an eligible Participant representative to fill the vacancy for the remainder of the term (i.e., December 31 of that year).

d. **Officers** - Members of the Management Committee shall elect officers, to include a Chair, Vice-Chair, Secretary and Treasurer. Those Officers shall perform the duties necessary to implement this Agreement and as generally envisioned by *Robert's Rules of Order*, latest edition. Generally, the Officers shall be responsible as follows:

(i) Chairperson – shall run the Management and Regional Committee meetings with the Administrator;

(ii) Vice-Chairperson – shall fill in for Chairperson, when requested, and serves at the discretion of the Chairperson;

(iii) Secretary – shall ensure that meeting minutes of the Management and Regional Committees are accurate and retained as a record; and

(iv) Treasurer – shall ensure that Consortium funds are disbursed in a timely fashion for legitimate expenses related to implementation and administration of the Regional Plan, and as approved by the Management and the Regional Committees.

The Officers shall serve a term of one (1) year, to begin on January 1 after election at the Annual Meeting, and which term shall expire on the following December 31 of that same calendar year. There is no limit to the number of terms that a representative may serve as an Officer on the Management Committee.

e. **Administration.** Staff of the YCPC will administer the activities of the Regional Committee and Management Committee at the direction of the Management and Regional Committees. The following are tasks that shall be undertaken and the responsibility of the YCPC, for which reimbursement shall be provided from the Consortium funds:

(i) Preparation and circulation to all Participants of minutes from all Regional Committee, Management Committee, and Subcommittee meetings.

(ii) Arrange, plan, and coordinate all Regional Committee, Management Committee, and Subcommittee meetings and/or conference calls.

(iii) Ensure that all applicable notice requirements are satisfied and advertisements are drafted and published as required by applicable laws, including, but not limited to, the Pennsylvania Sunshine Act.

(iv) Oversee, supervise, and administer BMP Projects funded by the Consortium to ensure funds are being spent as approved, on approved projects or project elements.

(v) Approve for payment and pay appropriate invoices submitted for BMP Projects approved for funding by the Regional Committee.

(vi) Draft any revisions to the Regional Plan for circulation and review by the Regional and Management Committees. Administer any such revisions.

(vii) Prepare all draft Regional Plan documents, revisions, updates, and any content requirements, as determined and directed by the Regional Committee for submission to PA DEP.

(viii) Prepare the MS4 CBPRP Annual Report related to and/or for the York County Regional CBPRP that is required in draft for review and approval by the Regional Committee at the Annual Meeting. Finalize and aid in the submission of the MS4 CBPRP Annual Report as directed by the Regional and Management Committees prior to the designated due date, as determined by PA DEP.

(ix) Calculate the Annual Contribution for each new Participant (in accordance with the Contribution Formula in Section 8.a.(ii) and as reflected in Attachment "A" (and any subsequent addenda to this Attachment) and issue an annual invoice to every Participant no later than November 15 for the following calendar year term.

(x) Collect all Annual Contributions from Participants and deposit all Annual Contribution funds into the Consortium Account, as described herein.

(xi) Manage and administer Consortium funds paid and deposited in the Consortium Account.

(xii) Retain all records, as that term is defined by the Pennsylvania Right-to-Know Law, for the time period required by applicable law but not less than six (6) years. Such records related to the Regional Plan and the activities undertaken pursuant to this Agreement shall be available for review and copying

by any Participant at the YCPC offices, upon submission of written request no less than five (5) business days prior to the desired date of review. Such written notice by a Participant is not required to comply with the then current Pennsylvania Right-to-Know Law.

(xiii) Prepare or cause to be prepared an annual:

- (1) Financial Report of the Consortium funds and all expenditures;
- (2) Progress Report related to all approved BMP Projects.

(xiv) Notify all Participants in writing of each Participant that has not paid the assigned annual financial contribution no later than March 30 of each calendar year.

(xv) Assist in identifying, and where appropriate, applying for, grant funding that can be used to fund Plan implementation and/or the actions and activities (excluding Administration) undertaken pursuant to this Agreement.

(xvi) Undertake other actions that may be necessary or convenient to implement the provisions of this Agreement.

5. Meetings.

a. Annual Meeting - There shall be an annual meeting of the Regional Committee every November (the "Annual Meeting"). The Annual Meeting shall occur following advance written notice to the Municipal representative and alternate of no less than sixty (60) days. Such Annual Meeting notice shall be provided by the Administrator to all Participants in accordance with applicable statute, and also may be provided by regular mail, facsimile or email using the contact information provided by each Participant.

b. The following business shall be conducted at the Annual Meeting, unless such business must be conducted at a Regular Meeting of the Regional Committee:

(i) Vote on BMP Projects to fund for the following calendar year (i.e. content of Annual Action Plan) and amount of funding to be allocated to each selected project, provided the Regional Committee shall not de-fund a multi-year project where construction has begun.

(ii) Vote on any proposed changes and/or revisions to the Regional Plan and the Annual Action Plan.

(iii) Presentation and approval of the Financial Report provided by YCPC.

(iv) Presentation and approval of the Progress Report provided by YCPC.

(v) Participant Update shall be presented by the Management Committee or the Administrator.

(vi) Review and approval of proposed budget prepared by the Administrator and Management Committee for the following calendar year.

(vii) Presentation of draft or final MS4 CBPRP Annual Report by YCPC.

(viii) Presentation of annual update by Subcommittees.

(ix) Presentation and vote on new Participant requests; including specified contribution amount(s) for each new Participant, as prepared and presented by YCPC and/or the Administrator.

(x) Establish dates for the quarterly Regular Regional Committee Meetings (referenced in Section 5.b. below) for the following calendar year.

Other business, as determined by the Management Committee, the Administrator, and/or the Participants may also be conducted at the Annual Meeting.

Except as otherwise provided herein, all voting shall be completed by voice vote and decisions shall be based on a simple majority vote of Regional Committee Participants in attendance.

Each Participant in attendance shall be entitled to one (1) vote on all matters addressed at the Annual Meeting and for which a vote is taken, including but not limited to, BMP Projects to be added to or deleted from the BMP Project List, BMP Projects to be included in the Annual Action Plan for the following year, the funding allocation for selected BMP Projects, and other matters related to the Regional Plan and the Annual Action Plan. Participants in attendance at the Annual Meeting shall also elect the members to the Management Committee, which election shall occur as set forth in Section 4.c. above.

c. Regular Regional Committee Meetings --

(i) The Regional Committee shall also meet quarterly to conduct business related to the Regional Plan ("Regular Meetings"), unless such meeting is cancelled or the date is moved by the Management Committee (by simple majority vote of four (4) Management Committee members, which vote can be cast via electronic communication). Business at the Regular Meetings shall be approved by a simple majority vote of those in attendance at the meeting.

(ii) In addition to Regular Meetings, as set forth in (i) above, the Management Committee, or a majority of the members of the Regional Committee, may call for a Regional Committee meeting for any purpose arising from or related to this Agreement. Such meetings shall occur following advance

written notice of no less than fifteen (15) calendar days, which notice shall be provided to all Participants by the Administrator.

d. Quorum. A quorum (50% of all Participants as represented by a voting representative) is necessary for the Regional Committee to take official action.

e. Subcommittees. Subcommittees, such as a (i) Technical Committee and a (ii) Regulatory Committee may be established on an ad-hoc basis by the Management Committee.

f. Participant Request. The Parties and the Administrator recognize that some Participants may request technical support and/or regulatory representation under certain circumstances and will accommodate those requests.

g. YCPC Staff. YCPC personnel and staff shall be authorized to attend and participate in all meetings referenced herein.

6. Authority of Management Committee. Except as otherwise provided herein, the implementation of the Regional Plan pursuant to this Agreement shall be managed and governed by the Management Committee. In addition to the duties and authority referenced elsewhere in this Agreement, the Participants hereby delegate such functions, powers and responsibilities set forth below to the Management Committee:

a. Authorize payment of submitted invoices. All procurement rules applicable to the participating Municipality shall be applicable to the BMP Projects undertaken pursuant to this Agreement.

b. Ensure funded BMP Projects are constructed as approved, payments for the work are within the approved scope of each Project, and that payments are issued timely to the Participants.

c. Solicit suggested revisions to the BMP Project List and Annual Action Plan from all Regional Committee members and Participant jurisdictions at least 90 days prior to the Annual Meeting.

d. Propose a complete BMP Project list for the Annual Action Plan to Participants at the Annual Meeting.

e. Initiate review of the Regional Plan, at least once per year, at the Annual Meeting.

f. Administer this Agreement, as necessary, throughout Agreement term.

g. Convene and appoint persons to serve on any Subcommittee deemed necessary by the Management Committee to fulfill the obligations, actions and activities required in this Agreement.

The Management Committee shall follow all laws applicable to the Participants, including, but not limited to, the Sunshine Act, the Right-to-Know Law and the Public Official and Employees Ethics Act, and any and all other applicable laws. All actions of the Management Committee shall be approved by a majority of its seven (7) voting members. Regional Committee members shall be entitled to attend meetings of the Management Committee, which shall occur no less than four (4) times per year or more frequently as needed, following advance written notice to all members of the Management Committee and Regional Committee by regular mail, facsimile or email.

7. **Implementation of Agreement.**

a. **Participants' Obligations.**

(i) The Participant jurisdiction in which any specific BMP Project is located shall be responsible for the implementation of the BMP Project (including, but not limited to, design, permitting, construction, operation,

monitoring, and maintenance). Participants may contractually transfer such obligations for design, construction, operation and maintenance, and monitoring to qualified third parties, but the Participant jurisdiction where the BMP Project is located shall remain responsible to ensure that the contracted third parties are performing the required tasks satisfactorily. The Participants' obligations and accepted liability to the other Parties to this Agreement shall remain with the Participant. Such long-term future obligations of operation, maintenance and monitoring of BMP Projects funded by the Consortium set forth in this provision shall survive opt out (Section 8.a.(ix)) and/or termination.

(ii) The Participant jurisdiction in which any specific BMP Project is located shall be responsible to compile and timely submit any and all invoices related to BMP Projects to the Management Committee for review, approval, and payment.

(iii) Such Participant jurisdiction shall maintain the BMP Project documentation and submit copies of all records relative to the BMP Project, including the approved Stormwater Management BMP Operations and Maintenance Plan, annually, unless requested more frequently by the Administrator, to the Administrator, who will then update the Management Committee and all Participants on the status of the BMP Project. Within sixty (60) calendar days after completion of a BMP Project funded in whole or in part under funds collected pursuant to this Agreement, the Participant jurisdiction(s) where the BMP Project is located is required to submit copies of all documents that relate in any way to the BMP Project and that qualify as "public records" under

the then current Right-to-Know Law to YCPC for record retention and availability for public review.

(iv) If a BMP Project, not sponsored by a Participant, is to be implemented, such Project shall be subject to terms and conditions approved by the Management Committee and Administrator. The Management Committee and Administrator will seek to develop a form of agreement to be used in such instances. Where a Participant does not sponsor a BMP Project in its jurisdiction, that Participant shall not have any obligations as to that BMP Project pursuant to this Agreement and pursuant to its MS4 permit.

b. Enforcement Actions. If any compliance or enforcement action (including the pursuit of a civil penalty, issuance of an NOV, Order, or any other compliance notice or action) is initiated by either the Commonwealth or the Federal Government in any way related to the Regional Plan, the Annual Action Plan or implementation actions and activities undertaken pursuant to this Agreement and the relevant Participant permit requirements, the Regional Committee shall meet to discuss the enforcement action, whether any one or more Parties are responsible for the alleged violation(s), and determine what the Consortium's response action(s) shall be. Where the Administrator, YCPC, or the Management Committee become aware of a potential compliance issue or question, the Administrator shall send written notice to all Participants within three (3) business days, which notice shall include any and all correspondence (including hard, electronic, or telephone call notes/summary) from or with a regulatory entity (including, but not limited to, the York County Conservation District, DEP, the United States Environmental Protection Agency, and United States Fish and Wildlife Service). The Management Committee shall convene a special

meeting of the Regional Committee in accordance with applicable law, and within ten (10) calendar days of issuance of the notice referenced herein. Under this provision, where a Quorum is present and by majority vote of those present, the Regional Committee may unilaterally terminate the Agreement as to any Participant. Where this occurs, the terminated Participant(s)' contribution(s) to date shall be retained by the Parties in the Consortium Account and is thereby forfeited by the terminated Participant(s).

8. Financing.

a. Contributions by Participants

(i). **Annual Contribution.** Unless a Participant opts out pursuant to Section 8.a.(ix), below, each Participant shall provide annual funding to the Consortium pursuant to this Agreement in the amounts set forth in the Cost Sharing Summary ("Annual Contribution"), which is attached hereto as Attachment "A" and incorporated by reference herein. So long as a Participant does not opt out, Annual Contributions shall be made by each Participant jurisdiction on an annual basis, as set forth herein, through the Term (as defined below) of this Agreement.

(ii) **Contribution Formula.** The Parties have agreed that Annual Contributions from each Participant jurisdiction have been and shall be calculated as follows:

A. = Miles of Impaired Streams in Participant Jurisdiction x \$490.9135 per mile*

B. = 2010 Population per U.S. Census in Participant Jurisdiction x \$0.698622 per person*

C. = Acres of Impervious Coverage in Participant Jurisdiction x \$ 17.43491 per acre*

* round result to a whole number; no decimals

$$\begin{aligned} \text{Total Contribution Over Five Years} &= A + B + C \\ \text{Annual Contribution} &= (A + B + C) / 5^1 \end{aligned}$$

This formula and each Participant's Annual Contribution shall not be changed or revised through the Term (as defined below) of this Agreement.

(iii) Invoicing and Payment. Participants shall be invoiced by YCPC no later than November 15 each calendar year, and the Participants' respective contributions shall be due on or before February 28 of each year.

(iv) Non-Appropriation. Failure to budget and timely pay the contribution invoice issued by YCPC shall result in:

(a) Retention of Annual Contribution funds paid to date by the violating Participant jurisdiction by YCPC and the Consortium;

(b) Unilateral termination of this Agreement as to the violating Participant jurisdiction, following final notice and opportunity to cure, which shall be provided in writing by YCPC to the violating Participant jurisdiction;

(c) Submission of notice of termination as to the violating Participant jurisdiction to the PA DEP; and

¹ Miles of Impaired Stream in Participant Jurisdiction = 20% of contribution
(\$200,000 / total miles of Impaired streams (407.40371) = cost/ mile)

Population in Participant Jurisdiction = 30% of contribution
\$300,000 / total population (429,417) = cost/ person)

Impervious Coverage (by acre) in Participant Jurisdiction = 50% of contribution
\$500,000 / total impervious cover (28,678.09) = cost/acre)

(Cost/ mile x miles of impaired streams in PJ) + (Cost/ person x population in PJ) + (Cost/acre x acres of impervious cover in PJ) = Participant Jurisdiction Total Contribution over five (5) years

(d) If any BMP Project located in the violating Participant jurisdiction was approved for funding by the Consortium and Regional Committee, those funds may be reallocated to other BMP Projects by the Regional Committee by revision to the Annual Action Plan and/or the Regional Plan at the next Annual Meeting.

(v) Subsequent Participants (i.e. "opt in"). In only the third year of the Term and effective for the fourth & fifth years of the Term, any local government jurisdiction that chooses to opt in/execute this Agreement after the Effective Date shall:

(a) Contribute an Annual Contribution as calculated by the Administrator and approved by the Management Committee, which amount shall be the total of: application of the Contribution Formula to the jurisdiction for the full five-year term, divided by the number of years left on the Term of this Agreement. (For example, if a municipality would have owed \$500 over the Term of the Agreement (\$100/yr) based upon application of the Contribution Formula, and it opts in for the last 2 years of the Term, the municipality shall owe \$250/year as its Annual Contribution in years 4 and 5 of the Term.) The Participants reserve the right to charge a "Plan Revision Fee" to Participants that opt in, equal to and based upon administrative costs and expenses arising from the requested action;

(b) Make its Annual Contribution payment in accordance with this Agreement within thirty (30) calendar days of being approved to participate by the Management Committee; and

(c) Such Annual Contribution of such subsequent and additional Participant(s) shall not reduce the other Participants' Annual Contribution, and shall enable more BMP Projects to be implemented to further reduce annual pollutant loads of nitrogen, phosphorous and sediment entering impaired York County surface waters.

(d) A local government jurisdiction that has its own MS4 permit as of the Effective Date, but elects not to join the Consortium by the Effective Date, may not opt in/execute this Agreement during the initial Term.

(vi) Consortium Account. A separate Regional CBPRP bank account (the "Consortium Account") shall be established by the YCPC for the deposit of the Participants' Annual Contributions and the funds therein shall be used solely for reimbursement for eligible YCPC administrative costs and expenses as set forth herein and the implementation of BMP Projects identified in the Regional Plan. Administration of these funds to pay for proper expenses under this Agreement shall be the responsibility of the Administrator and YCPC, with oversight and at the direction of the Management Committee. Such use of funds shall be for aspects of BMP Project implementation, as approved by the Regional Committee at the Annual Meeting. YCPC will be compensated for its administrative role in an amount not to exceed ten percent (10%) of the Annual Contributions in any one calendar year and only for reimbursable expenses in accordance with the terms of this Agreement.

(vii) Segregated Funds. All Parties agree that the Annual Contribution funds in the Consortium Account shall be kept separate and apart from any and all

other funds that may be acquired or utilized by YCPC and/or the Consortium, including, but not limited to, grant, loan, or donated funds. Grant, loan or donated funds shall be placed in separate Consortium accounts (each an "Additional Account"). It is the obligation of YCPC and the Administrator to maintain these funds and Additional Accounts separately and to account for and report use of these funds to the Regional Committee.

(viii) YCPC Reimbursement. The YCPC shall be reimbursed for invoiced costs and expenses, in accordance with Section 4.e., and upon approval of invoices for payment by the Management Committee. The YCPC shall not be reimbursed for attorney or legal fees, unless incurred (1) with pre-authorization of such engagement and expense by the Management Committee; (2) on behalf of the Consortium's implementation of the Plan and this Agreement; and (3) at the direction of the Management Committee. YCPC shall not seek nor obtain reimbursement for actions, activities or costs that are otherwise paid for by grant, loan or other sources of money.

(ix) Opt Out. During the Term of this Agreement, where a Participant, which does not have an MS4 permit or has a MS4 permit waiver, is not satisfied with the Plan or the implementation of this Agreement, a Participant may opt out of the Plan and unilaterally terminate its participation in this Agreement in year 3 of the Agreement Term (i.e., 2017). Such opt out action shall only be effective where accomplished as follows:

(a) Submit written notice of intent to opt out and terminate to the Administrator and the Management Committee no less than sixty (60) days prior to the Annual Meeting for termination to begin January 1, 2018.

10. Term.

a. The term of this Agreement shall be five (5) years, beginning on the Effective Date ("Term"). All Participants approving this Agreement may participate for such time period, unless the Participant opts out or is terminated prior to the end of this Agreement Term as provided for herein.

b. This Agreement may be extended by those Participant jurisdictions desiring to participate for an additional term or terms, by resolution.

11. Termination and Wind-Up. In the event of termination of the Consortium established by this Agreement, either at the conclusion of the initial Term, or at the end of any additional extended term agreed to by the Parties, any funds remaining in the Consortium Account shall be returned to those Participants who are part of the Consortium at the time of termination based upon the same percentage (rounded to seven decimal digits) as was used in determining the Contribution Amount set forth in Attachment "A", including any subsequent addendum necessitated by addition or reduction in the number of Participants (as reflected at the time of termination). Such funds shall be disbursed to the Participants remaining on the date of Termination no more than thirty (30) days after the date of Termination.

By way of example, using the initial cost sharing summary, Hellam Township's share (\$3,001) is 0.015005 of the total (\$200,000). Yorkana Borough's share (\$69) is 0.000345 of the total (\$200,000). These decimals would be used to allocate the refund of any remaining funds on termination of the Consortium.

12. Applicable Law. The Parties agree and affirm that Pennsylvania law applies to this Agreement and all matters covered by and addressed by this Agreement. It is acknowledged and agreed that the sole and exclusive jurisdiction and venue for any dispute relating to any matter covered by this Agreement, and/or regarding any dispute over the enforcement or

interpretation of this Agreement, shall rest with the York County Court of Common Pleas. The Parties hereby submit to the exclusive jurisdiction of that Court.

13. Integration. This Agreement contains the entire agreement between the Parties. There are no understandings or agreements, verbal or otherwise, in relation hereto, except those expressly and specifically set forth herein. The Parties have not relied upon any statement, projection, disclosure, report, information or any other representation or warranty except for those as may be specifically and expressly set forth in this Agreement.

14. No Oral Modification. This Agreement may not be modified except in writing executed by all Parties. This Agreement shall be amended only in writing, by duly authorized representatives of all Parties, and such revision(s) must be approved by official action of each Participant jurisdiction, and as required by any applicable law of the Commonwealth.

15. Severability. No determination by any court, governmental body, arbitration, or other judicial body, that any provision of this Agreement or any amendment that may be created hereto, is invalid or unenforceable in any instance shall affect the validity or enforceability of any other provision of the Agreement or applicable amendment. Each provision shall be valid and enforceable to the fullest extent permitted by applicable law, and shall be construed where and whenever possible as being consistent with applicable law.

16. Representation by Counsel. This Agreement has been negotiated by the Parties through their respective legal counsel and embodies terms that were arrived at through mutual negotiation and joint effort, and the Parties shall be considered to have contributed equally to the preparation of this Agreement. The Parties warrant and represent that the terms and conditions of this Agreement have been discussed and negotiated between them, and their respective counsel, and are voluntarily and knowingly accepted for the purpose of making a full and final compromise between the Parties, as referenced herein. The Parties further acknowledge that

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YORK COUNTY REGIONAL CBPRP COST SHARING SUMMARY

Municipality Participating in Regional CBPRP	Municipal Five (5) Year Contribution	Municipal Annual Contribution
Carroll Township	\$14,775	\$2,955
Conewago Township	\$16,527	\$3,305
Dallastown Borough	\$6,795	\$1,359
Dillsburg Borough	\$4,608	\$922
Dover Borough	\$3,230	\$646
Dover Township	\$48,288	\$9,658
East Manchester Township	\$21,563	\$4,313
Fairview Township	\$41,186	\$8,237
Felton Borough	\$1,020	\$204
Glen Rock Borough	\$3,019	\$604
Goldsboro Borough	\$1,570	\$314
Hallam Borough	\$3,514	\$703
Hanover Borough	\$36,242	\$7,248
Hellam Township	\$15,003	\$3,001
Jackson Township	\$29,494	\$5,899
Jacobus Borough	\$2,520	\$504
Lewisberry Borough	\$798	\$160
Loganville Borough	\$1,944	\$389
Lower Windsor Township	\$12,083	\$2,417
Manchester Borough	\$4,684	\$937
Manchester Township	\$49,515	\$9,903
Monaghan Township	\$5,084	\$1,017
Mount Wolf Borough	\$2,746	\$549
Newberry Township	\$28,603	\$5,721
North Codorus Township	\$23,792	\$4,758
North York Borough	\$3,939	\$788
Penn Township	\$38,377	\$7,675
Red Lion Borough	\$11,130	\$2,226
Shrewsbury Township	\$18,145	\$3,629
Spring Garden Township	\$35,784	\$7,157
Springettsbury Township	\$72,693	\$14,539
Springfield Township	\$18,600	\$3,720
West Manchester Township	\$64,605	\$12,921
West Manheim Township	\$9,540	\$1,908
West York Borough	\$7,668	\$1,534
Windsor Borough	\$2,361	\$472
Windsor Township	\$27,992	\$5,598
Wrightsville Borough	\$4,334	\$867
Yoe Borough	\$1,420	\$284
York City	\$73,310	\$14,662
York County	\$153,835	\$30,767
York Haven Borough	\$1,179	\$236
York Township	\$58,742	\$11,748
Yorkana Borough	\$346	\$69
TOTALS:	\$982,602	\$196,520

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ATTACHMENT B / STATUS OF MUNICIPALITIES

Carroll Township	(MS4 Permit)
Conewago Township	(MS4 Permit)
Dallastown Borough	(MS4 Permit)
Dillsburg Borough	(MS4 Permit)
Dover Borough	(MS4 Waiver)
Dover Township	(MS4 Permit)
East Manchester Township	(MS4 Permit)
Fairview Township	(MS4 Permit)
Felton Borough	(Non-MS4)
Glen Rock Borough	(Non-MS4)
Goldsboro Borough	(MS4 Permit)
Hallam Borough	(MS4 Permit)
Hanover Borough	(Non-MS4))
Hellam Township	(MS4 Permit)
Jackson Township	(MS4 Permit)
Jacobus Borough	(MS4 Waiver)
Lewisberry Borough	(MS4 Waiver)
Loganville Borough	(MS4 Permit)
Lower Windsor Township	(MS4 Permit)
Manchester Borough	(MS4 Permit)
Manchester Township	(MS4 Permit)
Monaghan Township	(MS4 Permit)
Mount Wolf Borough	(MS4 Permit)
Newberry Township	(MS4 Permit)
North Codorus Township	(MS4 Waiver)
North York Borough	(MS4 Permit)
Penn Township	(Non-MS4)
Red Lion Borough	(MS4 Permit)
Shrewsbury Township	(Non-MS4)
Spring Garden Township	(MS4 Permit)
Springettsbury Township	(MS4 Permit)
Springfield Township	(MS4 Permit)
West Manchester Township	(MS4 Permit)
West Manheim Township	(Non-MS4)
West York Borough	(MS4 Permit)
Windsor Borough	(MS4 Permit)
Windsor Township	(MS4 Permit)
Wrightsville Borough	(MS4 Permit)
Yoe Borough	(MS4 Permit)
York City	(MS4 Permit)
York County	(MS4 Permit)
York Haven Borough	(MS4 Permit)
York Township	(MS4 Permit)
Yorkana Borough	(MS4 Permit)

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York County Stormwater Consortium

Reporting 'Consideration' of Incorporating Green Infrastructure into Municipal Infrastructure Upgrades

Name of Municipality: Lower Windsor Township	
Infrastructure Upgrade Project: Construction of Township maintenance building	
Project Location: 111 Walnut Valley Ct, Wrightsville, PA 17368	Property Ownership: <input type="radio"/> Public <input checked="" type="radio"/> Private
Project (BMP) Type: 6.4.10 Infiltration Berm	Overall Project Cost: \$ 1,900,000.00
Receiving Watershed: Lower Susquehanna	Drainage area: 0.71 Acres

Summary of Project : Township constructed a new municipal maintenance building after the old building was burned down.

Green infrastructure/LID/Environmental Site Design Considerations

Indicate which of the following nonstructural and structural BMPs could be considered reasonably feasible and appropriate as part of the planned upgrade project.

Non-Structural BMP Type:	Concentrate Uses/Smart Growth	<input checked="" type="checkbox"/>	Minimize Disturbance	<input checked="" type="checkbox"/>	Minimize Soil Compaction	<input type="checkbox"/>	Re-veg/Re-forest Disturbance
	Reduce Street Imperviousness	<input type="checkbox"/>	Reduce Parking Imperviousness	<input checked="" type="checkbox"/>	Rooftop Disconnection	<input type="checkbox"/>	Disconnect from Storm Sewer
	Other:						
Structural BMP Type:	Pervious Pavement	<input type="checkbox"/>	Infiltration Basin	<input type="checkbox"/>	Subsurface Infiltration Bed	<input type="checkbox"/>	Infiltration Trench
	Vegetated Swale	<input type="checkbox"/>	Vegetated Filter Strip	<input type="checkbox"/>	Infiltration Berm	<input checked="" type="checkbox"/>	Vegetated Roof
	WQ Filter/Hydrodynamic Device	<input type="checkbox"/>	Riparian Buffer	<input type="checkbox"/>	Landscape Restoration	<input type="checkbox"/>	Soil Amendment
	Dry Extended Detention Basin	<input type="checkbox"/>	Impervious Removal	<input type="checkbox"/>	Construction Filter	<input type="checkbox"/>	Wet Pond
	Bioretention	<input type="checkbox"/>	Dry Well	<input type="checkbox"/>	Cistern	<input type="checkbox"/>	Constructed Wetland
	Floodplain Restoration	<input type="checkbox"/>	Level Spreader	<input type="checkbox"/>	Stream Restoration	<input type="checkbox"/>	Other:
Considerations	<input checked="" type="checkbox"/> Cost	<input type="checkbox"/>	Feasibility	<input type="checkbox"/>	Estimated Nutrient Load Reduction Benefits	<input type="checkbox"/>	Permitting
	<input type="checkbox"/> Project Timeline	<input type="checkbox"/>	Adjacent Landowners	<input type="checkbox"/>	Safety	<input type="checkbox"/>	Other:

Will any GI/LID/ESD occur as part of the planned upgrade? Yes No

If **YES**, provide additional details and complete sections below; if **NO** indicate why, then skip to "Responsible Official:"

The Township installed a 165 L.F. infiltration berm along the lower east side of the newly constructed Township Maintenance Building. The berm captures runoff from the building roof and a portion of the parking lot, prior to discharging off site. The berm provides stormwater volume reduction and water quality benefits above the minimum required by the Ordinance.

Latitude: 39.937863	Longitude: -76.518200
Start Date: August 4, 2014	Finish Date (or Estimate): December 30, 2014
Permitted under Chapter 102 or NPDES Permit : <input type="radio"/> Yes <input checked="" type="radio"/> No	
If Yes, include PAG No.	
Pollution Reductions	
Nitrogen: 0.88 lbs./year	Phosphorus: 0.65 lbs./year
Sediment: 265.87 lbs./year	
Method of Calculation used to estimate Pollution Reductions: 3930-PM-WM0035 Rev. 11/2010; annual rainfall = 40"	
Responsible Official: John A. Klinedinst, P.E.	Title/Position: Township Engineer

York County Stormwater Consortium
CBPRP Existing Project Status Summary OR Planned New Project

If Project is Listed on Table 6 of CBPRP, insert Project Name & ID Number:

If Submitting a Planned New Project for Consideration, include Project Name, Location and whether it is located on public or private land:

Lower Windsor Township Maintenance Building, 111 Walnut Valley Court, Wrightsville, PA 17368
 Private land

Sponsor Name: Lower Windsor Township

Sponsor Address: 2425 Craley Road, Wrightsville, PA 17368

Contact Name: Maureen Hartman

Contact Phone Number: (717) 244-6813

Contact Email: mhartman@lowerwindsor.com

Watershed: Lower Susquehanna

Project (BMP) Type: 6.4.10 Infiltration Berm

Listed Project Status: Planned Underway (% Complete) Completed Canceled

Brief Description:

The Township constructed a new maintenance building located on the site of the former building which burned down. The new building roof area, a portion of the paved area around the east side of the building, and some grassed area to the east drains to an infiltration berm constructed to the east of the building.

Start date (or estimate): August 4, 2014

Finish date (or estimate): December 30, 2014

Estimate of Pollution Reductions upon Completion of Project

Nitrogen: 0.88 lbs./year

Phosphorous: 0.65 lbs./year

Sediment: 265.87 lbs./year

Estimate of Pollution Reductions that have Occurred to Date (if applicable)

Nitrogen: 0.57 lbs./year

Phosphorous: 0.42 lbs./year

Sediment: 166.42 lbs./year

Method of Calculation used to Estimate Pollution Reductions:

3930-PM-WM0035 Rev. 11/2010; annual rainfall = 40"

Responsible Official:

John A. Kinedinst, P.E.

Title/Position:

Township Engineer

Lower Windsor Township BMPs

Brooke Valley Estates Extended			MUNICIPALITY: Lower Windsor Township	ENGINEER'S PROJECT #	Most Recent	Install Date
			ENGINEER: First Capital Engineering	1395.3.02.51b	Inspection Date	2005
Name of Responsible Person or Organization			Project Location	BMP Effectiveness	3/18/2014	
Rod Bosserman			Intersection of Abby Rd and Penny Lane Windsor, PA 17366	Not Compliant		
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water body	Inspection/Maintenance Frequency		
S1 - S9	Swale 1, 2, 3a, 3b, 3c,4, 5, 6,6a			<p>Compared to other stormwater management measures, the required upkeep of vegetated swales is relatively low. In general, maintenance strategies for swales focus on sustaining the hydraulic and pollutant removal efficiency of the channel, as well as maintaining a dense vegetative cover. Experience has proven that proper maintenance activities ensure the functionality of vegetated swales for many years. The following schedule of inspection and maintenance activities is recommended: Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth); Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation); Inspect vegetation on side slopes for erosion and formation of rills or gullies, correct as needed; Inspect for pools of standing water; dewater and discharge to an approved location and restore to design grade; Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; mow only when swale is dry to avoid rutting; Inspect for litter; remove prior to mowing; Inspect for uniformity in cross-section and longitudinal slope, correct as needed; Inspect swale inlet (curb cuts, pipes, etc.) and outlet for signs of erosion or blockage, correct as needed. Maintenance activities to be done as needed; Plant alternative grass species in the event of unsuccessful establishment; Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming; Rototill and replant swale if draw down time is more than 48 hours; Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified; Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Most of the above maintenance activities are reasonably within the ability of individual homeowners. More intensive swales (i.e. more substantial vegetation, check dams, etc.) may warrant more intensive maintenance duties and should be vested with a responsible agency. A legally binding and enforceable maintenance agreement between the facility owner and the local review authority might be warranted to ensure sustained maintenance execution. Winter conditions also necessitate additional maintenance concerns, which include the following: Inspect swale immediately after the spring melt, remove residuals (e.g., sand) and replace damaged vegetation without disturbing remaining vegetation; If roadside parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents; Use nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt; Use salt-tolerant vegetation in swales. (From 363-0300-002 / Dec 30, 2006, pgs 95-96. Twice a year and after every major storm event)</p>		
B1, B2	Basin 1, 2			<p>Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179. Twice a year and after every major storm event)</p>		
NOTES	sent second notification letter 4/10/2013					

Lower Windsor Township BMPs

<u>(N/F) Copper Beech Tree Subdivision</u>			MUNICIPALITY: Lower Windsor Township	ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location	BMP Effectiveness	3/18/2014	2004
Home Owners Association			Off of Trinity Road	Not Compliant		
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency		
S10 - S45	Swale S1 - S10, S12 - S24, S25a, S25b, S26 - S38 - S41, SA - SD			<p>Maintenance plan for swales, inlets, pipes, roadway & riprap aprons: All swales, inlets, pipes, roadway and riprap aprons are to be owned maintained, and inspected by the homeowners association. The township has the right to inspect all swales, inlets, pipes, roadway and riprap aprons periodically. All swales, inlets, pipes, roadway and riprap aprons are to be owned maintained swales, inlets, pipes, roadway & riprap aprons assure safe conveyance of stormwater and minimize the risk of flooding and erosion. Mowing of swales: grass should be mowed whenever adjoining lawns are mowed, but at least twice each year. Trees and shrubs should not be permitted to grow in any part of the swales. Liming, fertilizing, replanting and overseeding: if vegetation covers less than 40% of the soil surface, lime, fertilize and seed in accordance with current recommendations for new seedings. If vegetation covers more than 40% but less than 70% of the soil surface, lime, fertilizer and overseed in accordance with current recommendations. Removing trash and debris: trash, litter, and vegetation will be removed as needed to prevent obstruction of the flow of water, to prevent movement of trash and litter to downstream properties, to provide an attractive appearance and to minimize water pollution. After broom sweeping and removing debris from around the inlet, the catch basin grate should be removed and the condition of the inlet box checked. Removing sediment: soil materials (including clay, silt, sand and gravel) will be removed to maintain the designed capacity. All sumped stormwater inlets shall be inspected monthly. Sediment in sumped inlets shall be removed between March 1 and April 1 and between September 1 and October 1 of each year and also at such times when sediment reaches a level of 6 inches within an inlet. Sediment disposal: sediment disposal should be in accordance with applicable regulations for disposal of sediment. Repairs: repair slides, sumps and eroded areas in swales promptly. Pipes, inlets and riprap will be maintained, repaired and/or replaced as needed to maintain the integrity of the structure exposed metal surfaces will be painted to minimize damage due to rust. Roadway paving will be maintained to keep specified crown and cross slope to assure positive stormwater drainage. Maintenance inspections: a representative of the homeowner's association will inspect all riprap aprons after each rainfall event greater than 2 inches and at least once each year. Riprap aprons must remain to design dimensions and no bare earth can be visible within them. A representative of the Lower Windsor Township will inspect all swales within township right-of-way. Inlets, pipes and roadways after each after each rainfall event greater than 2 inches and at least once each year. Maintenance and repair costs: all maintenance and repair costs for riprap aprons and private roadways will be borne by the homeowner's association. All maintenance costs for swales, inlets, and pipes and roadways within township right-of-way will be borne by the Lower Windsor Township. All maintenance costs for swales within a lot's property and outside of township right-of-way shall be borne by that lot owner.] Maintenance records: records of all maintenance and repairs performed shall be provided to the PADEP, York County and/or Lower Windsor Township upon request. Swales, inlets, pipes, roadway & riprap aprons shall not be modified in any way without prior approval by the PADEP, York County and/or Lower Windsor Township. (adapted from Sheet 12 of 21 of 30 Jan '04 Storm Water Details plans)</p>		
B3, B4	Basin 1, 2			<p>Maintenance plan for detention basin: Detention basins are owned, and maintained by the homeowner of the lot on which the basin is located. Lower Windsor Township maintains the right to perform periodic inspections of the facilities. If the municipality determines that the landowner is not maintaining the facilities in accordance with the following specifications, the municipality may employ the means to repair or modify the bioretention basin at the landowner's expense. Basins will store water during high-intensity rainfall to ensure peak rates of flow from the development are not increased. Mowing: grass should be mowed at least twice each year in Basin 2. Grasses such as tall fescue should be mowed. Trees and shrubs should not be permitted to grow on the dam or in any part of the emergency spillway. Liming and fertilizing: the soil should be sampled at least once every 4 years. The sample should be tested at a qualified soil testing laboratory. Lime and fertilizer should be applied per recommendations based on the tests. Replanting and overseeding: if vegetation covers less than 40% of the soil surface, lime, fertilize and seed in accordance with current recommendations for new seedings. If vegetation covers more than 40% but less than 7d% of the soil surface, lime, fertilizer and overseed in accordance with current recommendations. Removing trash and debris: trash, litter, and vegetation will be removed as needed to prevent obstruction to the flow of water, to prevent movement of trash and litter to downstream properties, to provide an attractive appearance and to minimize water pollution. Removing sediment: soil materials (including clay, silt, sand and gravel) will be removed to maintain the designed storage capacity. Sediment disposal: sediment disposal should be in accordance with applicable regulations for disposal of sediment. Repairs: repair slides, slumps and eroded areas promptly. Pipes, headwalls and outlet structures will be maintained, repaired and/or replaced as needed to maintain the integrity of the structure exposed metal surfaces will be painted to minimize damage due to rust. Maintenance inspections: a representative of the homeowner's association will inspect all basins after each rainfall event greater than 2 inches and at least once each year. All maintenance costs will be borne by the homeowner's association. Maintenance records: records of all maintenance and repairs performed shall be provided to the pa department of environmental protection, York County and/or Lower Windsor Township upon request. Maintenance and repair costs: all maintenance and repair costs for the detention basin will be borne by the homeowner's association. The detention basin shall not be modified in any way without prior approval by the PADEP, York County and/or Lower Windsor Township. (adapted from Sheet 12 of 21 of 30 Jan '04 Storm Water Details plans)</p>		
I2 - I9	Infiltration Trench 1 - 8			<p>Trenches will store water during rainfall the water should infiltrate within 24 hours. Once the water level reaches the top of the trench, it pours over the top. Removing trash and debris: trash, litter, and vegetation will be removed as needed to prevent obstruction to the flow of water, to provide an attractive appearance and to minimize water pollution. Maintenance inspections: the owner of each lot which has a trench will inspect that trench after each rainfall event greater than 2 inches and at least once each year. All maintenance costs will be borne by the lot owner. Maintenance records: records of all maintenance and repairs performed shall be provided to the PADEP, York County and/or Lower Windsor Township upon request. Maintenance and repair costs: all maintenance and repair costs for stormwater retention trenches will be borne by the individual lot owner. The retention trench shall not be modified in any way without prior approval by the PADEP, York County and/or Lower Windsor Township. (adapted from Sheet 12 of 21 of 30 Jan '04 Storm Water Details plans)</p>		
NOTES						

Lower Windsor Township BMPs

<u>Calvary Bible Church Expansion</u>			MUNICIPALITY: Lower Windsor Township	ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location	BMP Effectiveness		
Calvary Bible Church			125 Calvary Church Rd Wrightsville, PA 17368	Not Compliant	3/18/2014	2004
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Body of Water	Inspection/Maintenance Frequency		
I1	Infiltration Structure			Catch Basins and Inlets (upgradient of infiltration basin) should be inspected and cleaned at least two times per year and after runoff events. The vegetation along the surface of the Infiltration basin should be maintained in good condition, and any bare spots revegetated as soon as possible. Vehicles should not be parked or driven on an Infiltration Basin, and care should be taken to avoid excessive compaction by mowers. Inspect the basin after runoff events and make sure that runoff drains down within 72 hours. Mosquito's should not be a problem if the water drains in 72 hours. Mosquitoes require a considerably long breeding period with relatively static water levels. Also inspect for accumulation of sediment, damage to outlet control structures, erosion control measures, signs of water contamination/spills, and slope stability in the berms. Mow only as appropriate for vegetative cover species. Remove accumulated sediment from basin as required. Restore original cross section and infiltration rate. Properly dispose of sediment. (From 363-0300-002 / Dec 30, 2006, pgs 31-32. Twice a year and after every major storm event)		
B5	Basin 1			Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179. Twice a year and after every major storm event)		
NOTES	Sent Second Notification Letter 4/10/2013					
<u>(N/F) Donald H. Klunk</u>			MUNICIPALITY: Lower Windsor Township	ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location	BMP Effectiveness		
Eli Dobrinoff			4601 E Prospect Rd York, PA 17406	Not Compliant	3/18/2014	2003
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency		
S46	Swale			Compared to other stormwater management measures, the required upkeep of vegetated swales is relatively low. In general, maintenance strategies for swales focus on sustaining the hydraulic and pollutant removal efficiency of the channel, as well as maintaining a dense vegetative cover. Experience has proven that proper maintenance activities ensure the functionality of vegetated swales for many years. The following schedule of inspection and maintenance activities is recommended: Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth); Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation); Inspect vegetation on side slopes for erosion and formation of rills or gullies, correct as needed; Inspect for pools of standing water; dewater and discharge to an approved location and restore to design grade; Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; mow only when swale is dry to avoid rutting; Inspect for litter; remove prior to mowing; Inspect for uniformity in cross-section and longitudinal slope, correct as needed; Inspect swale inlet (curb cuts, pipes, etc.) and outlet for signs of erosion or blockage, correct as needed. Maintenance activities to be done as needed: Plant alternative grass species in the event of unsuccessful establishment; Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming; Rototill and replant swale if draw down time is more than 48 hours; Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified; Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Most of the above maintenance activities are reasonably within the ability of individual homeowners. More intensive swales (i.e. more substantial vegetation, check dams, etc.) may warrant more intensive maintenance duties and should be vested with a responsible agency. A legally binding and enforceable maintenance agreement between the facility owner and the local review authority might be warranted to ensure sustained maintenance execution. Winter conditions also necessitate additional maintenance concerns, which include the following: Inspect swale immediately after the spring melt, remove residuals (e.g., sand) and replace damaged vegetation without disturbing remaining vegetation; If roadside parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents; Use nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt; Use salt-tolerant vegetation in swales. (From 363-0300-002 / Dec 30, 2006, pgs 95-96. Twice a year and after every major storm event)		
B6	Basin 1			Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179. Twice a year and after every major storm event)		
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Lower Windsor Township BMPs

<u>KRB Machinery Co.</u>			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location		BMP Effectiveness		
Nathaniel A. Kauffman			North of the intersection of Miller Springs Rd and Cool Creek Rd, Wrightsville, PA 17368		Compliant	4/25/2012	2003
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency			
110, 111	Infiltration Structure 1, 2			Subsurface Infiltration is generally less maintenance intensive than other practices of its type. Generally speaking, vegetation associated with Subsurface Infiltration practices is less substantial than practices such as Recharge Gardens and Vegetated Swales and therefore requires less maintenance. Maintenance activities required for the subsurface bed are similar to those of any infiltration system and focus on regular sediment and debris removal. The following represents the recommended maintenance efforts: All Catch Basins and Inlets should be inspected and cleaned at least 2 times per year. The overlying vegetation of Subsurface Infiltration features should be maintained in good condition, and any bare spots revegetated as soon as possible. Vehicular access on Subsurface Infiltration areas should be prohibited, and care should be taken to avoid excessive compaction by mowers. If access is needed, use of permeable, turf reinforcement should be considered. (From 363-0300-002 / Dec 30, 2006, pg 39; Twice a year and after every major storm event)			
B7	Basin 1			Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179. Twice a year and after every major storm event)			
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<u>Lauxmont Farms Section V Phase Four</u>			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location		BMP Effectiveness		
Lower Windsor Loan Association, LLC			Intersection of Trinity Church Rd and Polo Lane Wrightsville, PA 17368		Compliant	6/6/2012	2009
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency			
S 47 - 49	Swale 6, 7, 14			Compared to other stormwater management measures, the required upkeep of vegetated swales is relatively low. In general, maintenance strategies for swales focus on sustaining the hydraulic and pollutant removal efficiency of the channel, as well as maintaining a dense vegetative cover. Experience has proven that proper maintenance activities ensure the functionality of vegetated swales for many years. The following schedule of inspection and maintenance activities is recommended: Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth); Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation); Inspect vegetation on side slopes for erosion and formation of rills or gullies, correct as needed; Inspect for pools of standing water; dewater and discharge to an approved location and restore to design grade; Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; mow only when swale is dry to avoid rutting; Inspect for litter; remove prior to mowing; Inspect for uniformity in cross-section and longitudinal slope, correct as needed; Inspect swale inlet (curb cuts, pipes, etc.) and outlet for signs of erosion or blockage, correct as needed. Maintenance activities to be done as needed; Plant alternative grass species in the event of unsuccessful establishment; Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming; Rototill and replant swale if draw down time is more than 48 hours; Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified; Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Most of the above maintenance activities are reasonably within the ability of individual homeowners. More intensive swales (i.e. more substantial vegetation, check dams, etc.) may warrant more intensive maintenance duties and should be vested with a responsible agency. A legally binding and enforceable maintenance agreement between the facility owner and the local review authority might be warranted to ensure sustained maintenance execution. Winter conditions also necessitate additional maintenance concerns, which include the following: Inspect swale immediately after the spring melt, remove residuals (e.g., sand) and replace damaged vegetation without disturbing remaining vegetation; If roadside parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents; Use nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt; Use salt-tolerant vegetation in swales. (From 363-0300-002 / Dec 30, 2006, pgs 95-96. Twice a year and after every major storm event)			
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Lower Windsor Township BMPs

Lauxmont Farms Section V Phase Three			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location		BMP Effectiveness		
Lower Windsor Loan Association, LLC			Intersection of Trinity Church Rd and Polo Lane Wrightsville, PA 17368		1395.3.12.28f		2003
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency			
S 50 - 62	Swale 3, 5, 21-26, 28-32			Compared to other stormwater management measures, the required upkeep of vegetated swales is relatively low. In general, maintenance strategies for swales focus on sustaining the hydraulic and pollutant removal efficiency of the channel, as well as maintaining a dense vegetative cover. Experience has proven that proper maintenance activities ensure the functionality of vegetated swales for many years. The following schedule of inspection and maintenance activities is recommended: Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth): Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation); Inspect vegetation on side slopes for erosion and formation of rills or gullies, correct as needed; Inspect for pools of standing water, dewater and discharge to an approved location and restore to design grade; Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; mow only when swale is dry to avoid rutting; Inspect for litter, remove prior to mowing, inspect for uniformity in cross-section and longitudinal slope, correct as needed; Inspect swale inlet (curb cuts, pipes, etc.) and outlet for signs of erosion or blockage, correct as needed. Maintenance activities to be done as needed: Plant alternative grass species in the event of unsuccessful establishment; Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming; Rototill and replant swale if draw down time is more than 48 hours; Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified; Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Most of the above maintenance activities are reasonably within the ability of individual homeowners. More intensive swales (i.e. more substantial vegetation, check dams, etc.) may warrant more intensive maintenance duties and should be vested with a responsible agency. A legally binding and enforceable maintenance agreement between the facility owner and the local review authority might be warranted to ensure sustained maintenance execution. Winter conditions also necessitate additional maintenance concerns, which include the following: Inspect swale immediately after the spring melt, remove residuals (e.g., sand) and replace damaged vegetation without disturbing remaining vegetation; If roadside parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents; Use nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt; Use salt-tolerant vegetation in swales. (From 363-0300-002 / Dec 30, 2006, pgs 95-96. Twice a year and after every major storm event)			
B 10	Basin 3			Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179.)			
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Lauxmont Farms Section V Phase Two			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location		BMP Effectiveness		
Lower Windsor Loan Association, LLC			Intersection of Trinity Church Rd and Polo Lane Wrightsville, PA 17368		1395.3.12.28f		2000
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency			
S 63 - 74	Swale 1, 2, 4, 8-11, 15-17, 20, 27			Compared to other stormwater management measures, the required upkeep of vegetated swales is relatively low. In general, maintenance strategies for swales focus on sustaining the hydraulic and pollutant removal efficiency of the channel, as well as maintaining a dense vegetative cover. Experience has proven that proper maintenance activities ensure the functionality of vegetated swales for many years. The following schedule of inspection and maintenance activities is recommended: Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth): Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation); Inspect vegetation on side slopes for erosion and formation of rills or gullies, correct as needed; Inspect for pools of standing water, dewater and discharge to an approved location and restore to design grade; Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility; mow only when swale is dry to avoid rutting; Inspect for litter, remove prior to mowing, inspect for uniformity in cross-section and longitudinal slope, correct as needed; Inspect swale inlet (curb cuts, pipes, etc.) and outlet for signs of erosion or blockage, correct as needed. Maintenance activities to be done as needed: Plant alternative grass species in the event of unsuccessful establishment; Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming; Rototill and replant swale if draw down time is more than 48 hours; Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified; Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Most of the above maintenance activities are reasonably within the ability of individual homeowners. More intensive swales (i.e. more substantial vegetation, check dams, etc.) may warrant more intensive maintenance duties and should be vested with a responsible agency. A legally binding and enforceable maintenance agreement between the facility owner and the local review authority might be warranted to ensure sustained maintenance execution. Winter conditions also necessitate additional maintenance concerns, which include the following: Inspect swale immediately after the spring melt, remove residuals (e.g., sand) and replace damaged vegetation without disturbing remaining vegetation; If roadside parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents; Use nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt; Use salt-tolerant vegetation in swales. (From 363-0300-002 / Dec 30, 2006, pgs 95-96. Twice a year and after every major storm event)			
B 8, 9	Basin 1, 2			Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179.)			
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Lower Windsor Township BMPs

Lauxmont Farms Section V Phase One			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #		Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization Lower Windsor Loan Association, LLC			Project Location Intersection of Trinty Church Rd and Polo Lane Wrightsville, PA 17368		1395.3.12.28f			1997
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency				
S 75 - 78	Swale 12, 13, 18 , 19			Compared to other stormwater management measures, the required upkeep of vegetated swales is relatively low. In general, maintenance strategies for swales focus on sustaining the hydraulic and pollutant removal efficiency of the channel, as well as maintaining a dense vegetative cover. Experience has proven that proper maintenance activities ensure the functionality of vegetated swales for many years. The following schedule of inspection and maintenance activities is recommended: Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth): Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation); Inspect vegetation on side slopes for erosion and formation of rills or gullies, correct as needed; Inspect for pools of standing water, dewater and discharge to an approved location and restore to design grade; Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility, mow only when swale is dry to avoid rutting; Inspect for litter, remove prior to mowing. Inspect for uniformity in cross-section and longitudinal slope, correct as needed; Inspect swale inlet (curb cuts, pipes, etc.) and outlet for signs of erosion or blockage, correct as needed. Maintenance activities to be done as needed: Plant alternative grass species in the event of unsuccessful establishment; Reforest bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming; Rototill and replant swale if draw down time is more than 48 hours; Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified; Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Most of the above maintenance activities are reasonably within the ability of individual homeowners. More intensive swales (i.e. more substantial vegetation, check dams, etc.) may warrant more intensive maintenance duties and should be vested with a responsible agency. A legally binding and enforceable maintenance agreement between the facility owner and the local review authority might be warranted to ensure sustained maintenance execution. Winter conditions also necessitate additional maintenance concerns, which include the following: Inspect swale immediately after the spring melt, remove residuals (e.g., sand) and replace damaged vegetation without disturbing remaining vegetation; If roadside parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents; Use nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt; Use salt-tolerant vegetation in swales. (From 363-0300-002 / Dec 30, 2006, pgs 95-96. Twice a year and after every major storm event)				
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Stewart Welding And Fabricating, Inc			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #		Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization Stewart Welding and Fabricating, Inc			Project Location 1033 Water Street Wrightsville, PA 17368		1395.3.19.56c		4/19/2013	2008
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency				
S79, S80	Swale 1A, 1B			1. The owner of the property on which the stormwater management facility is constructed, or any other person or agent in control of such property, shall maintain the stormwater management facility in good condition and promptly repair and restore all grade surf aces, drains, dams and structures, vegetation, fences, erosion and sedimentation control measures, and other protective devices. Such repairs or restorations, and maintenance shall be in accordance with approved plans. 2. The contractor is responsible for the repair and maintenance of permanent control measures until released from this project. The land owner shall maintain permanent control measures thereafter. 3. Upon release of the contractor from repair and maintenance of permanent control measures, the owner, his heirs or assigns shall be responsible for repairing any structural damages or failures to permanent stormwater or erosion control facilities, which may occur as a result of negligence, accident or misuse. In the event of structural damage, owner shall be responsible to make necessary repairs as quickly as possible, but, in any case, within a period not exceeding 60 days. 4. Inlet box(es) and should be cleaned out on an as-needed basis. Debris should be removed from the grates, and sediment and or stones should be removed from the inlet box(es). Inspection of all should be scheduled at least once every 6 months. 5. The time period for the detention basin continuing maintenance, which shall include items such as cleaning and removal of sediment and/or debris, shall be on an "as needed" basis, but shall not be delayed longer than 30 days after discovery or notification of a problem. 6. Private streets and/or access drives shall be cleaned on an as-needed basis. A mechanical sweeper device shall be used to remove and collect debris, which shall be disposed of properly. Debris shall not be washed into storm sewer(s) and/or deposited in stormwater management basin(s). 7. Gabion baskets located in stormwater management facilities shall be cleaned on an as-needed basis. All trash collected by gabion baskets shall be removed and properly disposed of. If gabion baskets become more than 50% clogged with sediment and/or debris, baskets shall be back flushed to clean them. If gabion baskets are still clogged after flushing, the rock shall be removed from the baskets, cleaned and replaced. Inspection of all should be scheduled at least once every 6 months. 8. Beehive grates in the detention basin(s) or BMPs should be cleaned out on an as-needed basis. Stone infiltration column(s) under beehive grate(s) shall be inspected at least once every 6 months. If column(s) become over 50% clogged, stone column shall be excavated and replaced with clean stone as shown on infiltration trench/beehive grate details. 9. Outlet pipes should be inspected every 90 days, and cleared of debris. 10. Frequency of mowing should be regulated by vegetative growth height in order to be in compliance with municipal ordinances. (from site's Stormwater Management Details, Sheet # 8)				
I12	Infiltration Structure							
NOTES								

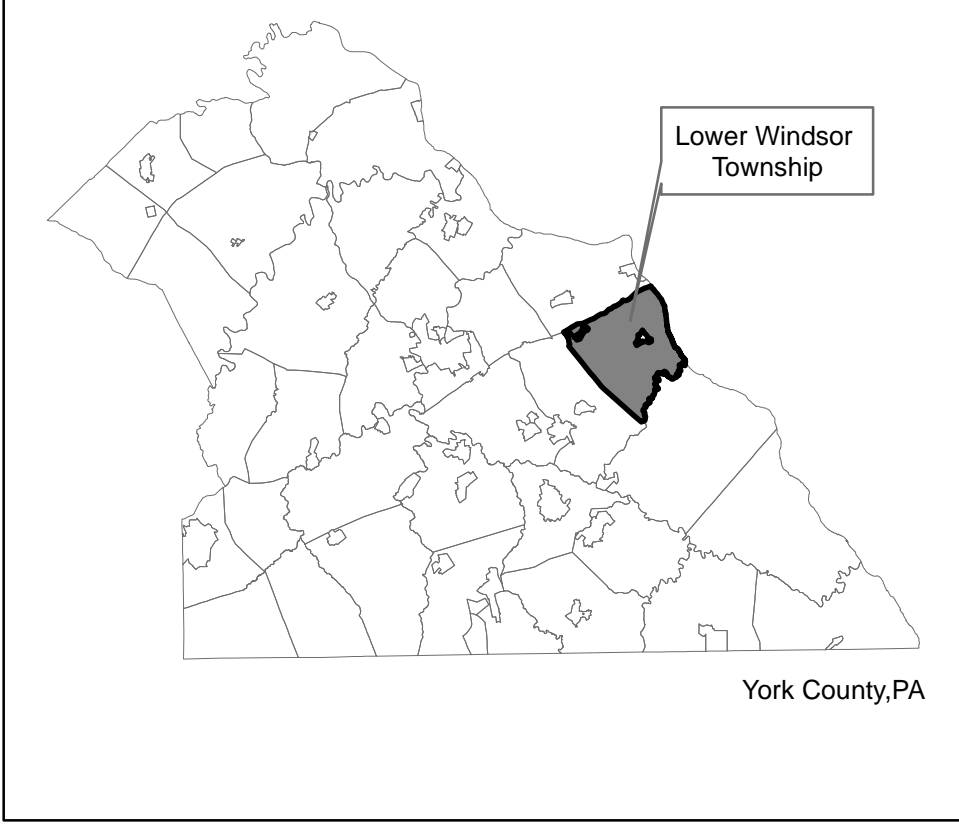
Lower Windsor Township BMPs

The Neighborhood At Winters Ridge			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location		BMP Effectiveness		
Gerard Builders LLC			The intersection of Livia In and E Maple St Wrightsville, PA 17368		1395.3.23.20b	6/7/2012	2003
ENGINEER: James R. Holley & Associates, Inc					Compliant		
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency			
S81, S82	Swale A, D			Compared to other stormwater management measures, the required upkeep of vegetated swales is relatively low. In general, maintenance strategies for swales focus on sustaining the hydraulic and pollutant removal efficiency of the channel, as well as maintaining a dense vegetative cover. Experience has proven that proper maintenance activities ensure the functionality of vegetated swales for many years. The following schedule of inspection and maintenance activities is recommended: Maintenance activities to be done annually and within 48 hours after every major storm event (> 1 inch rainfall depth): Inspect and correct erosion problems, damage to vegetation, and sediment and debris accumulation (address when > 3 inches at any spot or covering vegetation); Inspect vegetation on side slopes for erosion and formation of rills or gullies; correct as needed; Inspect for pools of standing water; dewater and discharge to an approved location and restore to design grade; Mow and trim vegetation to ensure safety, aesthetics, proper swale operation, or to suppress weeds and invasive vegetation; dispose of cuttings in a local composting facility, mow only when swale is dry to avoid rutting; Inspect for litter, remove prior to mowing. Inspect for uniformity in cross-section and longitudinal slope, correct as needed; Inspect swale inlet (curb cuts, pipes, etc.) and outlet for signs of erosion or blockage, correct as needed. Maintenance activities to be done as needed: Plant alternative grass species in the event of unsuccessful establishment; Reseed bare areas; install appropriate erosion control measures when native soil is exposed or erosion channels are forming; Rototill and replant swale if draw down time is more than 48 hours; Inspect and correct check dams when signs of altered water flow (channelization, obstructions, erosion, etc.) are identified; Water during dry periods, fertilize, and apply pesticide only when absolutely necessary. Most of the above maintenance activities are reasonably within the ability of individual homeowners. More intensive swales (i.e. more substantial vegetation, check dams, etc.) may warrant more intensive maintenance duties and should be vested with a responsible agency. A legally binding and enforceable maintenance agreement between the facility owner and the local review authority might be warranted to ensure sustained maintenance execution. Winter conditions also necessitate additional maintenance concerns, which include the following: Inspect swale immediately after the spring melt, remove residuals (e.g., sand) and replace damaged vegetation without disturbing remaining vegetation; If roadside parking lot runoff is directed to the swale, mulching and/or soil aeration/manipulation may be required in the spring to restore soil structure and moisture capacity and to reduce the impacts of deicing agents; Use nontoxic, organic deicing agents, applied either as blended, magnesium chloride-based liquid products or as pretreated salt; Use salt-tolerant vegetation in swales. (From 363-0300-002 / Dec 30, 2006, pgs 95-96. Twice a year and after every major storm event)			
I37 - I39	Infiltration Structure 1 - 3			All seepage pits shall be checked on an annual basis for proper functioning, effectiveness, and overall capability for infiltration. The seepage pits shall be cleaned and replaced should they become clogged or begin to malfunction (from plans, Sheet # 5; Annually and after every major storm event)			
B11 - B13	Basins 1-3			Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179; Twice a year and after every major storm event)			
NOTES							
Rexroth Park			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
Name of Responsible Person or Organization			Project Location		BMP Effectiveness		
Lower Windsor Township			Prayer Mission Road Wrightsville, PA 17368				
ENGINEER: CSDavidson, Inc							
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency			
B14	Basin			Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179; Twice a year and after every major storm event)			
NOTES							

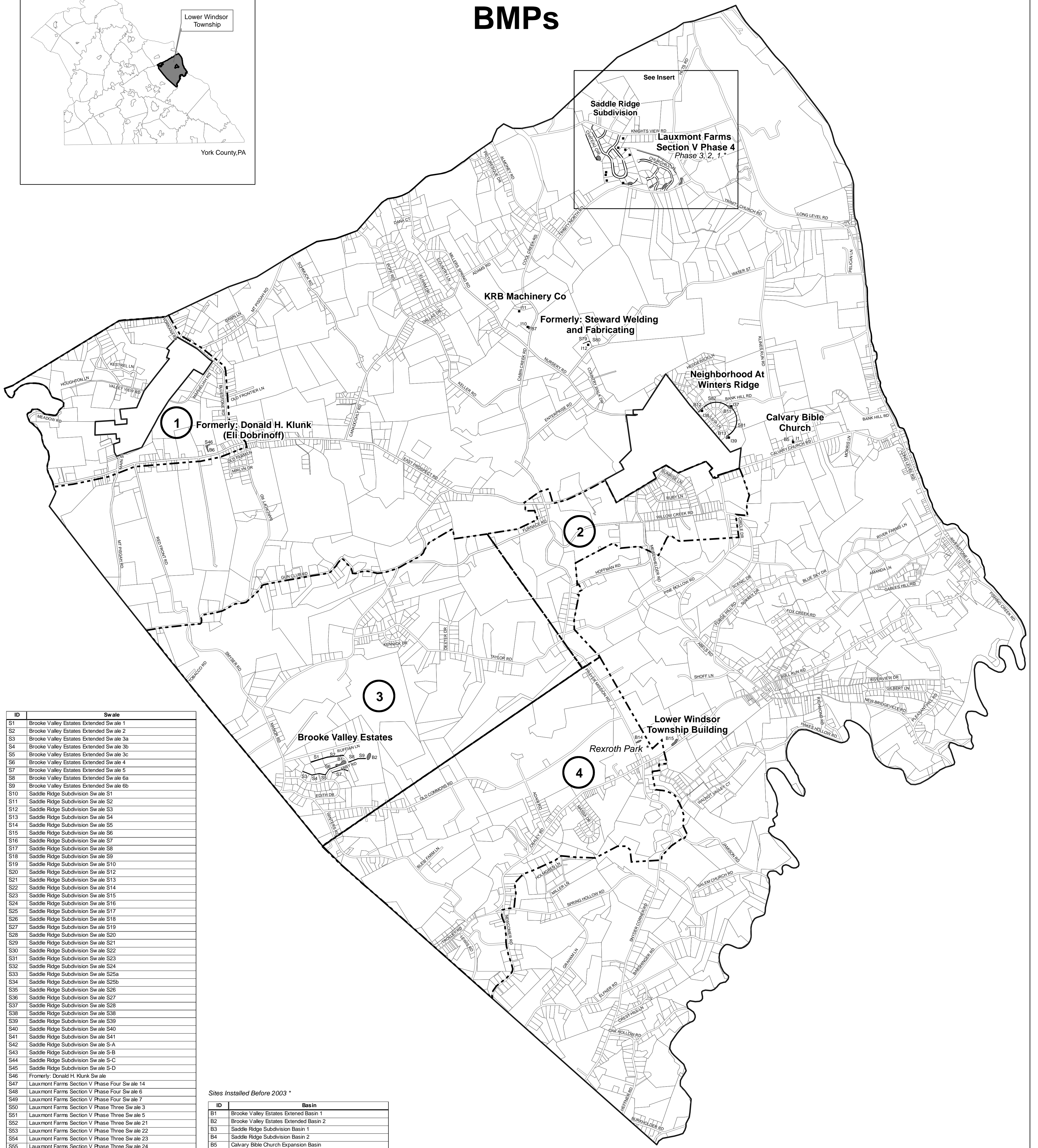
Lower Windsor Township BMPs

Lower Windsor Township Building			MUNICIPALITY: Lower Windsor Township		ENGINEER'S PROJECT #	Most Recent Inspection Date	Install Date
			ENGINEER: CSDavidson, Inc		1395.8.17.03		2005
Name of Responsible Person or Organization			Project Location		BMP Effectiveness	3/18/2014	
Lower Windsor Township			2425 Craley Rd Wrightsville, PA 17368				
ID	Structural BMP	Drainage Area (Ac.)	Name of Receiving Water Body	Inspection/Maintenance Frequency			
B15	Basin			Maintenance is necessary to ensure proper functionality of the extended detention basin and should take place on a quarterly basis. A basin maintenance plan should be developed which includes the following measures: All basin structures expected to receive and/or trap debris and sediment should be inspected for clogging and excessive debris and sediment accumulation at least four times per year, as well as after every storm greater than 1 inch; Structures include basin bottoms, trash racks, outlets structures, riprap or gabion structures, and inlets; Sediment removal should be conducted when the basin is completely dry. Sediment should be disposed of properly and once sediment is removed, disturbed areas need to be immediately stabilized and revegetated; Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, but all detritus should be removed from the basin; Vegetated areas should be inspected annually for erosion; Vegetated areas should be inspected annually for unwanted growth of exotic/invasive species; Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10%, vegetation should be reestablished. (From 363-0300-002 / Dec 30, 2006, pg 179; Twice a year and after every major storm event)			
NOTES							

Location Map



Lower Windsor Township BMPs



ID	Swale
S1	Brooke Valley Estates Extended Swale 1
S2	Brooke Valley Estates Extended Swale 2
S3	Brooke Valley Estates Extended Swale 3a
S4	Brooke Valley Estates Extended Swale 3b
S5	Brooke Valley Estates Extended Swale 3c
S6	Brooke Valley Estates Extended Swale 4
S7	Brooke Valley Estates Extended Swale 5
S8	Brooke Valley Estates Extended Swale 6a
S9	Brooke Valley Estates Extended Swale 6b
S10	Saddle Ridge Subdivision Swale S1
S11	Saddle Ridge Subdivision Swale S2
S12	Saddle Ridge Subdivision Swale S3
S13	Saddle Ridge Subdivision Swale S4
S14	Saddle Ridge Subdivision Swale S5
S15	Saddle Ridge Subdivision Swale S6
S16	Saddle Ridge Subdivision Swale S7
S17	Saddle Ridge Subdivision Swale S8
S18	Saddle Ridge Subdivision Swale S9
S19	Saddle Ridge Subdivision Swale S10
S20	Saddle Ridge Subdivision Swale S12
S21	Saddle Ridge Subdivision Swale S13
S22	Saddle Ridge Subdivision Swale S14
S23	Saddle Ridge Subdivision Swale S15
S24	Saddle Ridge Subdivision Swale S16
S25	Saddle Ridge Subdivision Swale S17
S26	Saddle Ridge Subdivision Swale S18
S27	Saddle Ridge Subdivision Swale S19
S28	Saddle Ridge Subdivision Swale S20
S29	Saddle Ridge Subdivision Swale S21
S30	Saddle Ridge Subdivision Swale S22
S31	Saddle Ridge Subdivision Swale S23
S32	Saddle Ridge Subdivision Swale S24
S33	Saddle Ridge Subdivision Swale S25a
S34	Saddle Ridge Subdivision Swale S25b
S35	Saddle Ridge Subdivision Swale S26
S36	Saddle Ridge Subdivision Swale S27
S37	Saddle Ridge Subdivision Swale S28
S38	Saddle Ridge Subdivision Swale S38
S39	Saddle Ridge Subdivision Swale S39
S40	Saddle Ridge Subdivision Swale S40
S41	Saddle Ridge Subdivision Swale S41
S42	Saddle Ridge Subdivision Swale S-A
S43	Saddle Ridge Subdivision Swale S-B
S44	Saddle Ridge Subdivision Swale S-C
S45	Saddle Ridge Subdivision Swale S-D
S46	Formerly: Donald H. Klunk Swale
S47	Lauxmont Farms Section V Phase Four Swale 14
S48	Lauxmont Farms Section V Phase Four Swale 6
S49	Lauxmont Farms Section V Phase Four Swale 7
S50	Lauxmont Farms Section V Phase Three Swale 3
S51	Lauxmont Farms Section V Phase Three Swale 5
S52	Lauxmont Farms Section V Phase Three Swale 21
S53	Lauxmont Farms Section V Phase Three Swale 22
S54	Lauxmont Farms Section V Phase Three Swale 23
S55	Lauxmont Farms Section V Phase Three Swale 24
S56	Lauxmont Farms Section V Phase Three Swale 25
S57	Lauxmont Farms Section V Phase Three Swale 26
S58	Lauxmont Farms Section V Phase Three Swale 28
S59	Lauxmont Farms Section V Phase Three Swale 29
S60	Lauxmont Farms Section V Phase Three Swale 30
S61	Lauxmont Farms Section V Phase Three Swale 31
S62	Lauxmont Farms Section V Phase Three Swale 32
S63	Lauxmont Farms Section V Phase Two Swale 1
S64	Lauxmont Farms Section V Phase Two Swale 2
S65	Lauxmont Farms Section V Phase Two Swale 4
S66	Lauxmont Farms Section V Phase Two Swale 8
S67	Lauxmont Farms Section V Phase Two Swale 9
S68	Lauxmont Farms Section V Phase Two Swale 10
S69	Lauxmont Farms Section V Phase Two Swale 11
S70	Lauxmont Farms Section V Phase Two Swale 15
S71	Lauxmont Farms Section V Phase Two Swale 16
S72	Lauxmont Farms Section V Phase Two Swale 17
S73	Lauxmont Farms Section V Phase Two Swale 20
S74	Lauxmont Farms Section V Phase Two Swale 27
S75	Lauxmont Farms Section V Phase One Swale 12
S76	Lauxmont Farms Section V Phase One Swale 13
S77	Lauxmont Farms Section V Phase One Swale 18
S78	Lauxmont Farms Section V Phase One Swale 19
S79	Formerly: Stew art Welding and Fabricating, Inc Infiltration Structure
S80	Formerly: Stew art Welding and Fabricating, Inc Swale 1A
S81	Formerly: Stew art Welding and Fabricating, Inc Swale 1B
S82	The Neighborhood At Winters Ridge Swale A
S82	The Neighborhood At Winters Ridge Swale D

Sites Installed Before 2003 *

ID	Basin
B1	Brooke Valley Estates Extended Basin 1
B2	Brooke Valley Estates Extended Basin 2
B3	Saddle Ridge Subdivision Basin 1
B4	Saddle Ridge Subdivision Basin 2
B5	Calvary Bible Church Expansion Basin
B6	Formerly: Donald H. Klunk Basin
B7	KRB Machinery Co Basin 1
B8	Lauxmont Farms Section V Phase Two Basin 1
B9	Lauxmont Farms Section V Phase Two Basin 2
B10	Lauxmont Farms Section V Phase Three Basin 3
B11	The Neighborhood At Winters Ridge Basin A
B12	The Neighborhood At Winters Ridge Basin B
B13	The Neighborhood At Winters Ridge Basin C
B14	Rexroth Park Basin
B15	Lower Windsor Township Building Basin

ID	Infiltration Structures
I1	Calvary Bible Church Expansion Infiltration Trench
I2	Saddle Ridge Subdivision Infiltration Trench 1
I3	Saddle Ridge Subdivision Infiltration Trench 2
I4	Saddle Ridge Subdivision Infiltration Trench 3
I5	Saddle Ridge Subdivision Infiltration Trench 4
I6	Saddle Ridge Subdivision Infiltration Trench
I7	Saddle Ridge Subdivision Infiltration Trench 6
I8	Saddle Ridge Subdivision Infiltration Trench 7
I9	Saddle Ridge Subdivision Infiltration Trench 8
I10	KRB Machinery Co Infiltration Structure 1
I11	KRB Machinery Co Infiltration Structure 2
I12	Formerly: Stew art Welding and Fabricating, Inc Infiltration Structure
I17	The Neighborhood At Winters Ridge Infiltration Trench 1
I18	The Neighborhood At Winters Ridge Infiltration Trench 2
I19	The Neighborhood At Winters Ridge Infiltration Trench 3

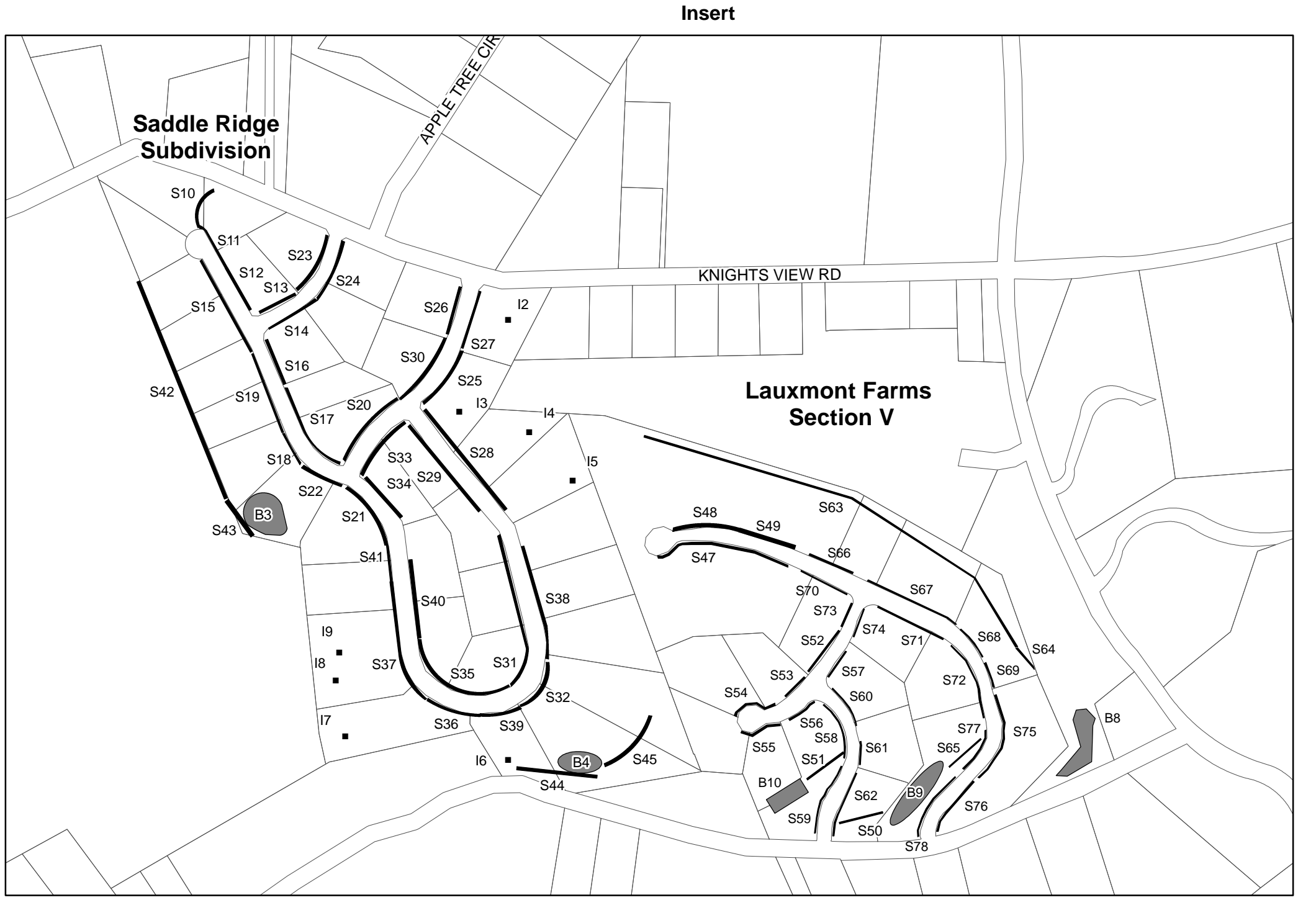
Legend

- Infiltration Structures
- Parcels
- Swale
- MS4 Areas
- Basin

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0 0.35 0.7 1.4 Miles

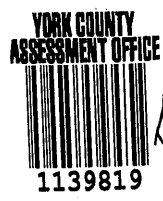
C.S. Davidson, Inc.
Excellence in Civil Engineering



AIN
9/05

COPY

1829 Winters Rd
Windsor, PA 17366



ATTACHMENT C

UPI No. 35000IL0045000000
[Street Address, Municipality]

LOWER WINDSOR TWP

**STORMWATER OPERATION AND MAINTENANCE
AND RIGHT-OF-WAY AGREEMENT**

THIS AGREEMENT is made and entered into this 8th day of April, 2015, by and among BRUCE CARROLL [Owner], its/his/her successors, heirs, personal representatives and assigns, including specifically any future lot owner ("Landowner"), and Lower Windsor Township, York County; Pennsylvania, ("Township").

WITNESSETH

WHEREAS, the Landowner is the owner of real property located in Lower Windsor Township, York County, commonly known as [street address], with a UPI No. 35000IL0045000000 (the "Property").

WHEREAS, the Landowner is proceeding to build on and/or further develop impervious surface on the Property; and

WHEREAS, the SWM Site Plan (the "SWM Site Plan") which is expressly made a part hereof, as approved or to be approved by the Township, provides for the management of stormwater within the confines of the Property; and

WHEREAS, the SWM Site Plan includes a SWM Operation and Maintenance Plan approved by the Township (the "O&M Plan") for the Property, [which is attached hereto as Appendix A and made a part hereof/which is on file at the Township offices and made a part hereof] which provides for the establishment, operation and maintenance of SWM facilities and BMPs; and

WHEREAS, the Township and the Landowner agree that the health, safety and welfare of the residents of the Township and the protection and maintenance of water quality require that SWM facilities and BMPs be established, constructed and maintained on the Property; and

WHEREAS, the requires, through the implementation of the Township's Stormwater Management Ordinance; Ordinance No. 2012-13 (the "Stormwater Ordinance"), that SWM facilities and BMPs as required by the SWM Site Plan and the Stormwater Ordinance be established, constructed and adequately operated and maintained by the Landowner in accordance with the O&M Plan.

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NOW, THEREFORE, in consideration of the foregoing promises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

Section 1. Unless otherwise defined in this Agreement, the terms used herein shall have the meaning given to them in the Stormwater Ordinance, as amended.

Section 2. The Landowner shall establish and/or construct the SWM facilities and BMPs in accordance with the terms, conditions and specifications identified in the SWM Site Plan. Except when expressly allowed by the Stormwater Ordinance, the Landowner shall not alter, modify, replace, relocate or in any way interfere with any SWM facilities or BMPs without the prior written permission of the Township.

Section 3. The Landowner shall adequately maintain the SWM facilities and BMPs shown on the SWM Site Plan in good working order in accordance with the specific O&M requirements set forth in the O&M Plan. This includes all swales,

pipes, channels built to convey and control stormwater, as well as all SWM BMP structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate O&M is defined as good working condition, acceptable to the Township, so those facilities are performing their design functions and not having any adverse effects on water quality or adjoining or nearby roads, structures or properties. Adequate O&M will not be demonstrated merely by strict compliance with the SWM Site Plan or O&M Plan where the SWM Site Plan and O&M Plan are inadequate for stormwater management in the field.

Section 4. The Landowner hereby grants to the Township an easement appurtenant for the periodic inspections by the Township and repair of the SWM facilities and BMPs, if necessary. The Landowner may choose and periodically modify the easement location so long as the Landowner at all times maintains or provides an unobstructed means for access to and emergency maintenance of the SWM facilities and BMPs. The Township shall not be liable for restoration of the Property in the event of emergency maintenance or for any damages due to failure of the Landowner to provide unobstructed access to the SWM facilities and BMPs. Whenever possible, the Township shall notify the Landowner prior to entering the Property.

Section 5. In the event the Landowner fails to maintain the SWM facilities and/or BMPs in accordance with Section 3, the Township or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain the SWM facilities and BMPs. It is expressly understood and agreed that the Township is under no obligation to maintain or repair said SWM facilities and BMPs, and in no event shall this Agreement be construed to impose any such obligation on the Township.

Section 6. The Landowner hereby conveys to the Township an easement in gross for the periodic inspections by the Township and repair of the SWM facilities, if necessary. The Landowner shall at all times maintain or provide an unobstructed means for access to the SWM facilities and BMPs.

Section 7. In the event the Township, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like on account of the Landowner's failure to perform such work, the Landowner shall reimburse the Township upon demand, within 30 days of receipt of invoice hereof, for all costs, including engineer and attorney fees, incurred by the Township hereunder. If not paid within said 30-day period, the Township may enter a municipal lien against the property in the amount of such costs, or may proceed to recover his costs through proceedings in equity or at law as authorized under the provisions of the Municipal Claims and Tax Lien Act, 53 P.S. § 7101 *et seq.*

Section 8. The Landowner shall release the Township, its officials, employees, officers, agents and representatives, from all damages, accidents, casualties, occurrences or claims which might arise or be asserted against said persons from the construction, presence, existence or maintenance of the SWM facilities and BMPs by Landowner or Township. The Township disclaims all liability for design, construction, installation or operation defects. The grant of a permit or approval of a subdivision and/or land development plan shall not constitute a representation, guarantee, or warranty of any kind or liability upon the Township, its officials, or employees. None of the conditions or covenants contained in this Agreement shall be deemed a waiver of Township's rights or immunities granted by statute.

Section 9. Should any provision of this Agreement be interpreted to conflict with the Stormwater Ordinance, as amended or superseded, the provisions and requirements of the Stormwater Ordinance shall control interpretation. Should any provision of this Agreement be determined by a court to be unenforceable, such provision of this Agreement shall be deemed to be void; provided, however, the balance of the Agreement shall remain in full force and effect.

Section 10. This Agreement shall be recorded in the land records of York County, Pennsylvania and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, its/his/her successors, receivers, heirs, personal representatives and assigns, in perpetuity. Landowner will reference this Agreement and recording information in any deeds transferring or conveying the Property or any subdivided outparcels thereof.

Section 11. A violation or breach of this Agreement shall be deemed a violation of the Stormwater Ordinance, as amended, which shall be subject to all remedies and enforcement set forth therein. Landowner shall be responsible for all costs of enforcement (including attorney fees) of this Agreement, which costs shall be reimbursed to the Township upon demand within 30 days of the receipt of an invoice thereof. All invoiced amounts due under this Agreement for administration, maintenance, enforcement or otherwise that remain unpaid after 30 days from the date of invoice shall be assessed interest at the rate of 12% per annum until paid in full.

Sample Operation & Maintenance Plan for DIA and Equivalent DIA Regulated Activities

*For Seepage Beds and Trenches only. All other facilities will need an O&M Plan developed by the property owner.

Construction:

1. Install erosion and sedimentation control facilities.
2. Stormwater Management Facility (ies) shall be installed before impervious areas are completed. If earthwork is involved during the construction of the impervious area, then extreme caution shall be taken so that sediment does not wash into the SWM Facility (ies).
3. Mark the locations of the SWM facility (ies).
4. Excavate the SWM Facility to the required depth. Contact Township for inspection prior to filling. If standing water is encountered, a SWM Site Plan may need to be submitted; contact Township Engineer. All excavated materials shall be removed from the site or stabilized.
5. Line excavation with Geotextile.
6. Backfill SWM Facility with required stone. If required: Install piping, cleanouts and associated facilities as detailed.
7. If required: Close geotextile material over stone bedding.
8. If required: Place topsoil over trench.
9. Stabilize and seed all disturbed areas.

Maintenance

1. The SWM Facility shall be checked regularly to ensure that no standing water exists in the facility 3 days after a rain event.
 - a. If water is encountered, the facility may need to be modified. Notification of the Township is required if facility is not functioning and before any modifications are made.
2. Monitor the SWM facility to ensure that no sediment, grass clippings, leaves, and other similar accumulations occur on top of, and/or within, the SWM Facility.

Inspection Reports

1. Submit the provided Inspection Reports to the Township on the following schedule:
 - a. One year from the date of installation.
 - b. Every year following the initial inspection.
 - c. After any 10-year rain event (i.e. after an rain event that results in over 4 inches of rain in a 24 hour period)
2. Keep a record of all inspections.

I have read and agree to the above Operation and Maintenance Plan. I, as the property owner, am responsible for the proper construction, operation and maintenance, and filing the proper inspection reports for the SWM Facility. If I fail to adhere to any of these tasks, the Township may perform the services required and charge me the appropriate fees. Nonpayment of the fees may result in a lien against my property.

Bruce Carroll
Property Owner Name (Printed)

Bruce Carroll
Signature

4-8-15
Date

<Title>

Parcel Key: 35000IL0045000000



**York
County
Assessment
Office**

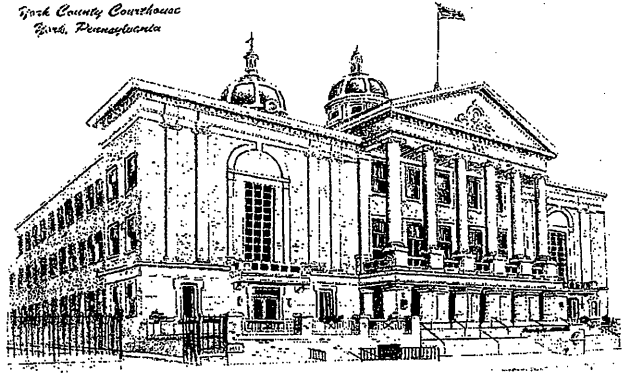


- Road
- Municipalities
- ▨ 100 yr Floodplain
- (---) Easements
- Rail
- Parcels
- () Soils



Maps are not from actual survey

07/06/2015
Scale 1:2400



YORK COUNTY RECORDER OF DEEDS
28 EAST MARKET STREET
YORK, PA 17401

Randi L. Reisinger - Recorder
Bradley G. Daugherty - Deputy

Instrument Number - 2015029105
Recorded On 7/7/2015 At 8:40:48 AM
*** Instrument Type - MAINTENANCE AGREEMENT**
Invoice Number - 1145673
*** Grantor - CARROLL, BRUCE**
*** Grantee - LOWER WINDSOR TOWNSHIP**
User - JMR
*** Customer - LOWER WINSOR TOWNSHIP**

Book - 2327 Starting Page - 6950
*** Total Pages - 6**

*** Received By: COUNTER**

*** FEES**

STATE WRIT TAX	\$0.50
RECORDING FEES	\$15.00
PIN NUMBER FEES	\$10.00
COUNTY ARCHIVES FEE	\$2.00
ROD ARCHIVES FEE	\$3.00
TOTAL PAID	\$30.50

PARCEL IDENTIFICATION NUMBER
35000IL0045000000
Total Parcels: 1

I Certify This Document To Be
Recorded In York County, Pa.



Randi L. Reisinger
Recorder of Deeds

THIS IS A CERTIFICATION PAGE
PLEASE DO NOT DETACH
THIS PAGE IS NOW PART OF THIS LEGAL DOCUMENT

* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

Book: 2327 Page: 6955

MAIN
7702

11411 Prayer Mission Rd.
Windsor, PA 17366

ATTACHMENT C

UPI No. 35-000-IL-0136-60-00000

[Street Address, Municipality]

LOWER WINDSOR TWP.

**STORMWATER OPERATION AND MAINTENANCE
AND RIGHT-OF-WAY AGREEMENT**

THIS AGREEMENT is made and entered into this 3rd day of November, 2015, by and among ISA HOHENADEL AND JOHN CULP [Owner], its/his/her successors, heirs, personal representatives and assigns, including specifically any future lot owner ("Landowner"), and Lower Windsor Township, York County; Pennsylvania, ("Township").



WITNESSETH

WHEREAS, the Landowner is the owner of real property located in Lower Windsor Township, York County, commonly known as [street address], with a UPI No. 35000IL01366000000 (the "Property").

WHEREAS, the Landowner is proceeding to build on and/or further develop impervious surface on the Property; and

WHEREAS, the SWM Site Plan (the "SWM Site Plan") which is expressly made a part hereof, as approved or to be approved by the Township, provides for the management of stormwater within the confines of the Property; and

WHEREAS, the SWM Site Plan includes a SWM Operation and Maintenance Plan approved by the Township (the "O&M Plan") for the Property, [which is attached hereto as Appendix A and made a part hereof/which is on file at the township offices and made a part hereof] which provides for the establishment, operation and maintenance of SWM facilities and BMPs; and

WHEREAS, the Township and the Landowner agree that the health, safety and welfare of the residents of the Township and the protection and maintenance of water quality require that SWM facilities and BMPs be established, constructed and maintained on the Property; and

5P
3N

WHEREAS, the requires, through the implementation of the Township's Stormwater Management Ordinance, Ordinance No. 2012-13 (the "Stormwater Ordinance"), that SWM facilities and BMPs as required by the SWM Site Plan and the Stormwater Ordinance be established, constructed and adequately operated and maintained by the Landowner in accordance with the O&M Plan.

NOW, THEREFORE, in consideration of the foregoing promises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

Section 1. Unless otherwise defined in this Agreement, the terms used herein shall have the meaning given to them in the Stormwater Ordinance, as amended.

Section 2. The Landowner shall establish and/or construct the SWM facilities and BMPs in accordance with the terms, conditions and specifications identified in the SWM Site Plan. Except when expressly allowed by the Stormwater Ordinance, the Landowner shall not alter, modify, replace, relocate or in any way interfere with any SWM facilities or BMPs without the prior written permission of the Township.

Section 3. The Landowner shall adequately maintain the SWM facilities and BMPs shown on the SWM Site Plan in good working order in accordance with the specific O&M requirements set forth in the O&M Plan. This includes all swales,

channels built to convey and control stormwater, as well as all SWM BMP structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate O&M is defined as good working condition, acceptable to the Township, so those facilities are performing their design functions and not having any adverse effects on water quality or nearby roads, structures or properties. Adequate O&M will not be demonstrated merely by strict compliance with the SWM Site Plan or O&M Plan where the SWM Site Plan and O&M Plan are inadequate for stormwater management in the field.

Section 4. The Landowner hereby grants to the Township an easement appurtenant for the periodic inspections by the Township and repair of the SWM facilities and BMPs, if necessary. The Landowner may choose and periodically modify the easement location so long as the Landowner at all times maintains or provides an unobstructed means for access to and emergency maintenance of the SWM facilities and BMPs. The Township shall not be liable for restoration of the Property in the event of emergency maintenance or for any damages due to failure of the Landowner to provide unobstructed access to the SWM facilities and BMPs. Whenever possible, the Township shall notify the Landowner prior to entering the Property.

Section 5. In the event the Landowner fails to maintain the SWM facilities and/or BMPs in accordance with Section 4, the Township or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain the SWM facilities and BMPs. It is expressly understood and agreed that the Township is under no obligation to maintain or repair the SWM facilities and BMPs, and in no event shall this Agreement be construed to impose any such obligation on the Township.

Section 6. The Landowner hereby conveys to the Township an easement in gross for the periodic inspections by the Township and repair of the SWM facilities, if necessary. The Landowner shall at all times maintain or provide an unobstructed means for access to the SWM facilities and BMPs.

Section 7. In the event the Township, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like on account of the Landowner's failure to perform such work, the Landowner shall reimburse the Township upon demand, within 30 days of receipt of invoice thereof, for all costs, including engineer and attorney fees, incurred by the Township hereunder. If not paid within said 30-day period, the Township may enter a municipal lien against the property in the amount of such costs, or may proceed to recover its costs through proceedings in equity or at law as authorized under the provisions of the Municipal Claims and Tax Lien Act, 53 P.S. § 7101 *et seq.*

Section 8. The Landowner shall release the Township, its officials, employees, officers, agents and representatives, from all damages, accidents, casualties, occurrences or claims which might arise or be asserted against said persons from the construction, presence, existence or maintenance of the SWM facilities and BMPs by Landowner or Township. The Township disclaims all liability for design, construction, installation or operation defects. The grant of a permit or approval of a subdivision or land development plan shall not constitute a representation, guarantee, or warranty of any kind or liability upon the Township, its officials, or employees. None of the conditions or covenants contained in this Agreement shall be deemed a waiver of the Township's rights or immunities granted by statute.

Section 9. Should any provision of this Agreement be interpreted to conflict with the Stormwater Ordinance, as amended or superseded, the provisions and requirements of the Stormwater Ordinance shall control interpretation. Should any provision of this Agreement be determined by a court to be unenforceable, such provision of this Agreement shall be deemed to be void; provided, however, the balance of the Agreement shall remain in full force and effect.

Section 10. This Agreement shall be recorded in the land records of York County, Pennsylvania and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, its/his/her successors, heirs, personal representatives and assigns, in perpetuity. Landowner will reference this Agreement and recording information in any deeds transferring or conveying the Property or any subdivided outparcels thereof.

Section 11. A violation or breach of this Agreement shall be deemed a violation of the Stormwater Ordinance, as amended, which shall be subject to all remedies and enforcement set forth therein. Landowner shall be responsible for all costs of enforcement (including attorney fees) of this Agreement, which costs shall be reimbursed to the Township upon demand within 30 days of the receipt of an invoice thereof. All invoiced amounts due under this Agreement for administration, maintenance, enforcement or otherwise that remain unpaid after 30 days from the date of invoice shall be assessed interest at the rate of 12% per annum until paid in full.

Simple Operation & Maintenance Plan for DIA and Equivalent DIA Regulated Activities

For Seepage Beds and Trenches only. All other facilities will need an O&M Plan developed by the property owner.

Construction:

1. Install erosion and sedimentation control facilities.
2. Stormwater Management Facility (ies) shall be installed before impervious areas are completed. If earthwork is involved during the construction of the impervious area, then extreme caution shall be taken so that sediment does not wash into the SWM Facility (ies).
3. Mark the locations of the SWM facility (ies).
4. Excavate the SWM Facility to the required depth. Contact Township for inspection prior to filling. If standing water is encountered, a SWM Site Plan may need to be submitted; contact Township Engineer. All excavated materials shall be removed from the site or stabilized.
5. Line excavation with Geotextile.
6. Backfill SWM Facility with required stone. If required: Install piping, cleanouts and associated facilities as detailed.
7. If required: Close geotextile material over stone bedding.
8. If required: Place topsoil over trench.
9. Stabilize and seed all disturbed areas.

Maintenance

1. The SWM Facility shall be checked regularly to ensure that no standing water exists in the facility 3 days after a rain event.
 - a. If water is encountered, the facility may need to be modified. Notification of the Township is required if facility is not functioning and before any modifications are made.
2. Monitor the SWM facility to ensure that no sediment, grass clippings, leaves, and other similar accumulations occur on top of, and/or within, the SWM Facility.

Inspection Reports

1. Submit the provided Inspection Reports to the Township on the following schedule:
 - a. One year from the date of installation.
 - b. Every year following the initial inspection.
 - c. After any 10-year rain event (i.e. after an rain event that results in over 4 inches of rain in a 24 hour period)
2. Keep a record of all inspections.

I have read and agree to the above Operation and Maintenance Plan. I, as the property owner, am responsible for the proper construction, operation and maintenance, and filing the proper inspection reports for the SWM Facility. If I fail to adhere to any of these tasks, the Township may perform the services required and charge me the appropriate fees. Nonpayment of the fees may result in a lien against my property.

John Culp
Property Owner Name (Printed)

[Signature]
Signature

11-30-15
Date

Lisa Hohenadel

[Signature]

11/30/15

Section 12. This Agreement may only be amended by a written amendment executed by the party against whom enforcement is sought.

TEST/WITNESS:

Sandra Cunningham

[LANDOWNER]

John Culp

[Signature]
Lisa Hohenadel

Lisa Hohenadel

SIGNATURES

PRINTED

COMMONWEALTH OF PENNSYLVANIA :

: SS

COUNTY OF YORK :

On this the 30th day of November, 2015, before me, the undersigned officer, personally appeared Sandra Cunningham, who executes himself/herself to be the Zoning Officer of Lower Windsor Township, a Second Class Township organized and existing under the laws of Pennsylvania, and that as such, being authorized to do so, executed the foregoing document for the purposes therein contained by signing the name of the Township by himself/herself as Zoning Officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

[Signature]
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Linda J. Zimmerman, Notary Public
Lower Windsor Twp., York County
My Commission Expires Nov. 8, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

COMMONWEALTH OF PENNSYLVANIA :

: SS

COUNTY OF YORK :

On this the 30th day of November, 2015, before me, the undersigned officer, personally appeared Lisa Hohenadel, John Culp, who executes this document and acknowledges he is authorized to do so and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

[Signature]
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Linda J. Zimmerman, Notary Public
Lower Windsor Twp., York County
My Commission Expires Nov. 8, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

<Title>

Parcel Key: 35000IL0136G000000

Parcel ID: 35000IL0136G000000

Location: PRAYER MISSION RD

Owner: HOHENADEL LISA & CULP JOHN

Land Value: \$30010

Building Value: \$0

Total Value: \$30010

Deed Book/Page: 2338-8109

Grantor: FLOHR TIMOTHY J & BETTY A

Clean & Green: N

Acreage: .981

Land Class: 100

Sale Price: \$41000

Sale Date: Wed Sep 23 2015

Homestead Code:

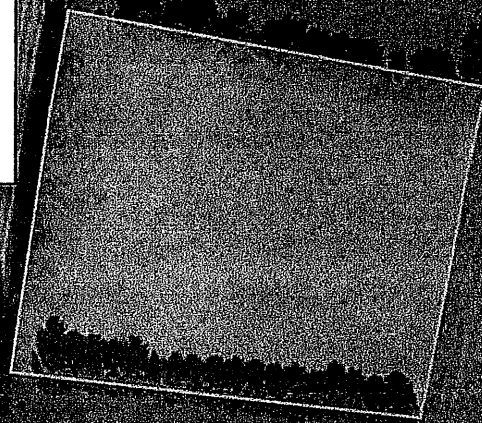
Homestead Approv.:

Homestead %:

Farmstead Code:

Farmstead %:

Copy to Clipboard



**York
County
Assessment
Office**



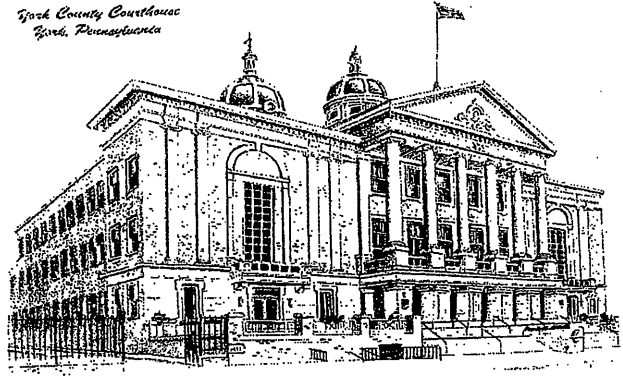
- Road
- ▭ Municipalities
- ▨ 100 yr Floodplain
- (— Easements)
- Rail
- ▭ Parcels
- (▭ Soils)



Maps are not from actual survey

02/22/2016
Scale 1:1200

York County Courthouse
York, Pennsylvania



YORK COUNTY RECORDER OF DEEDS
28 EAST MARKET STREET
YORK, PA 17401

Randi L. Reisinger - Recorder
Bradley G. Daugherty - Deputy

Instrument Number - 2016007702
Recorded On 2/26/2016 At 8:41:28 AM
* Instrument Type - MAINTENANCE AGREEMENT
Invoice Number - 1175565
* Grantor - HOHENADEL, LISA
* Grantee - LOWER WINDSOR TOWNSHIP
User - JMR
* Customer - LOWER WINDSOR TOWNSHIP

Book - 2358 Starting Page - 597
* Total Pages - 6

* Received By: COUNTER

*** FEES**

STATE WRIT TAX	\$0.50
RECORDING FEES	\$15.00
PIN NUMBER FEES	\$10.00
COUNTY ARCHIVES FEE	\$2.00
ROD ARCHIVES FEE	\$3.00
TOTAL PAID	\$30.50

PARCEL IDENTIFICATION NUMBER
35000IL0136G000000
Total Parcels: 1

I Certify This Document To Be
Recorded In York County, Pa.



Randi L. Reisinger
Recorder of Deeds

THIS IS A CERTIFICATION PAGE
PLEASE DO NOT DETACH
THIS PAGE IS NOW PART OF THIS LEGAL DOCUMENT

* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

Book: 2358 Page: 602

#003 MAINTENANCE AGREEMENT \$30.50

Instrument Number - 2016007702
Recorded on - Feb 26, 2016 8:41:28 AM
Book: 2358 Page: 597
Total Pages: 6
Municipality - LOWER WINDSOR TOWNSHIP
Grantor - HOHNADEL, LISA
Grantee - LOWER WINDSOR TOWNSHIP
PARCEL IDENTIFICATION NUMBER
35000ILO136G000000

Fee Detail:
COUNTY RECORDING FEE \$13.00
PIN NUMBER FEE \$10.00
PER PAGE OVER 4 PAGES \$2.00
STATE WRIT FEE \$0.50
ARCHIVES FEE-COUNTY \$2.00
ARCHIVES FEE-RECORDER \$3.00

#004 PLAN IN GG BOOK \$9.00

Instrument Number - 2016007703
Recorded on - Feb 26, 2016 8:41:29 AM
Book: GG Page: 4019
Total Pages: 4
Municipality - LOWER WINDSOR TOWNSHIP
Grantor - HOHNADEL, LISA
Grantee - LOWER WINDSOR TOWNSHIP
PARCEL IDENTIFICATION NUMBER
N/A-LOWER WINDSOR TOWNSHIP

Fee Detail:
PLAN IN GG BOOK \$9.00

1AIN.
7704

150 Calvary Church Rd.
Wrightsville, PA 17368

ATTACHMENT C

UPI No. 35000JM0081B000000
[Street Address, Municipality]

LOWER WINDSOR TWP

**STORMWATER OPERATION AND MAINTENANCE
AND RIGHT-OF-WAY AGREEMENT**

THIS AGREEMENT is made and entered into this 3rd day of August, 2015, by and among Karen L. Gish R [Owner], its/his/her successors, heirs, personal representatives and assigns, including specifically any future lot owner ("Landowner"), and Lower Windsor Township, York County; Pennsylvania, ("Township").

YORK COUNTY
ASSESSMENT OFFICE



1158403

WITNESSETH

WHEREAS, the Landowner is the owner of real property located in Lower Windsor Township, York County, commonly known as [street address], with a UPI No. 35000JM0081B000000 (the "Property").

WHEREAS, the Landowner is proceeding to build on and/or further develop impervious surface on the Property; and

WHEREAS, the SWM Site Plan (the "SWM Site Plan") which is expressly made a part hereof, as approved or to be approved by the Township, provides for the management of stormwater within the confines of the Property; and

WHEREAS, the SWM Site Plan includes a SWM Operation and Maintenance Plan approved by the Township (the "O&M Plan") for the Property, [which is attached hereto as Appendix A and made a part hereof/which is on file at the Township offices and made a part hereof] which provides for the establishment, operation and maintenance of SWM facilities and BMPs; and

WHEREAS, the Township and the Landowner agree that the health, safety and welfare of the residents of the Township and the protection and maintenance of water quality require that SWM facilities and BMPs be established, constructed and maintained on the Property; and

WHEREAS, the requires, through the implementation of the Township's Stormwater Management Ordinance; Ordinance No. 2012-13 (the "Stormwater Ordinance"), that SWM facilities and BMPs as required by the SWM Site Plan and the Stormwater Ordinance be established, constructed and adequately operated and maintained by the Landowner in accordance with the O&M Plan.

NOW, THEREFORE, in consideration of the foregoing promises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

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Section 1. Unless otherwise defined in this Agreement, the terms used herein shall have the meaning given to them in the Stormwater Ordinance, as amended.

Section 2. The Landowner shall establish and/or construct the SWM facilities and BMPs in accordance with the terms, conditions and specifications identified in the SWM Site Plan. Except when expressly allowed by the Stormwater Ordinance, the Landowner shall not alter, modify, replace, relocate or in any way interfere with any SWM facilities or BMPs without the prior written permission of the Township.

Section 3. The Landowner shall adequately maintain the SWM facilities and BMPs shown on the SWM Site Plan in good working order in accordance with the specific O&M requirements set forth in the O&M Plan. This includes all swales,

pipes, channels built to convey and control stormwater, as well as all SWM BMP structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate O&M is defined as good working condition, acceptable to the Township, so those facilities are performing their design functions and not having any adverse effects on water quality or adjoining or nearby roads, structures or properties. Adequate O&M will not be demonstrated merely by strict compliance with the SWM Site Plan or O&M Plan where the SWM Site Plan and O&M Plan are inadequate for stormwater management in the field.

Section 4. The Landowner hereby grants to the Township an easement appurtenant for the periodic inspections by the Township and repair of the SWM facilities and BMPs, if necessary. The Landowner may choose and periodically modify the easement location so long as the Landowner at all times maintains or provides an unobstructed means for access to and emergency maintenance of the SWM facilities and BMPs. The Township shall not be liable for restoration of the Property in the event of emergency maintenance or for any damages due to failure of the Landowner to provide unobstructed access to the SWM facilities and BMPs. Whenever possible, the Township shall notify the Landowner prior to entering the Property.

Section 5. In the event the Landowner fails to maintain the SWM facilities and/or BMPs in accordance with Section 3, the Township or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain the SWM facilities and BMPs. It is expressly understood and agreed that the Township is under no obligation to maintain or repair said SWM facilities and BMPs, and in no event shall this Agreement be construed to impose any such obligation on the Township.

Section 6. The Landowner hereby conveys to the Township an easement in gross for the periodic inspections by the Township and repair of the SWM facilities, if necessary. The Landowner shall at all times maintain or provide an unobstructed means for access to the SWM facilities and BMPs.

Section 7. In the event the Township, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like on account of the Landowner's failure to perform such work, the Landowner shall reimburse the Township upon demand, within 30 days of receipt of invoice thereof, for all costs, including engineer and attorney fees, incurred by the Township hereunder. If not paid within said 30-day period, the Township may enter a municipal lien against the property in the amount of such costs, or may proceed to recover his costs through proceedings in equity or at law as authorized under the provisions of the Municipal Claims and Tax Lien Act, 53 P.S. § 7101 *et seq.*

Section 8. The Landowner shall release the Township, its officials, employees, officers, agents and representatives, from all damages, accidents, casualties, occurrences or claims which might arise or be asserted against said persons from the construction, presence, existence or maintenance of the SWM facilities and BMPs by Landowner or Township. The Township disclaims all liability for design, construction, installation or operation defects. The grant of a permit or approval of a subdivision and/or land development plan shall not constitute a representation, guarantee, or warranty of any kind or liability upon the Township, its officials, or employees. None of the conditions or covenants contained in this Agreement shall be deemed a waiver of Township's rights or immunities granted by statute.

Section 9. Should any provision of this Agreement be interpreted to conflict with the Stormwater Ordinance, as amended or superseded, the provisions and requirements of the Stormwater Ordinance shall control interpretation. Should any provision of this Agreement be determined by a court to be unenforceable, such provision of this Agreement shall be deemed to be void; provided, however, the balance of the Agreement shall remain in full force and effect.

Section 10. This Agreement shall be recorded in the land records of York County, Pennsylvania and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, its/his/her successors, receivers, heirs, personal representatives and assigns, in perpetuity. Landowner will reference this Agreement and recording information in any deeds transferring or conveying the Property or any subdivided outparcels thereof.

Section 11. A violation or breach of this Agreement shall be deemed a violation of the Stormwater Ordinance, as amended, which shall be subject to all remedies and enforcement set forth therein. Landowner shall be responsible for all costs of enforcement (including attorney fees) of this Agreement, which costs shall be reimbursed to the Township upon demand within 30 days of the receipt of an invoice thereof. All invoiced amounts due under this Agreement for administration, maintenance, enforcement or otherwise that remain unpaid after 30 days from the date of invoice shall be assessed interest at the rate of 12% per annum until paid in full.

Sample Operation & Maintenance Plan for DIA and Equivalent DIA Regulated Activities

*For Seepage Beds and Trenches only. All other facilities will need an O&M Plan developed by the property owner.

Construction:

1. Install erosion and sedimentation control facilities.
2. Stormwater Management Facility (ies) shall be installed before impervious areas are completed. If earthwork is involved during the construction of the impervious area, then extreme caution shall be taken so that sediment does not wash into the SWM Facility (ies).
3. Mark the locations of the SWM facility (ies).
4. Excavate the SWM Facility to the required depth. Contact Township for inspection prior to filling. If standing water is encountered, a SWM Site Plan may need to be submitted; contact Township Engineer. All excavated materials shall be removed from the site or stabilized.
5. Line excavation with Geotextile.
6. Backfill SWM Facility with required stone. If required: Install piping, cleanouts and associated facilities as detailed.
7. If required: Close geotextile material over stone bedding.
8. If required: Place topsoil over trench.
9. Stabilize and seed all disturbed areas.

Maintenance

1. The SWM Facility shall be checked regularly to ensure that no standing water exists in the facility 3 days after a rain event.
 - a. If water is encountered, the facility may need to be modified. Notification of the Township is required if facility is not functioning and before any modifications are made.
2. Monitor the SWM facility to ensure that no sediment, grass clippings, leaves, and other similar accumulations occur on top of, and/or within, the SWM Facility.

Inspection Reports

1. Submit the provided Inspection Reports to the Township on the following schedule:
 - a. One year from the date of installation.
 - b. Every year following the initial inspection.
 - c. After any 10-year rain event (i.e. after an rain event that results in over 4 inches of rain in a 24 hour period)
2. Keep a record of all inspections.

I have read and agree to the above Operation and Maintenance Plan. I, as the property owner, am responsible for the proper construction, operation and maintenance, and filing the proper inspection reports for the SWM Facility. If I fail to adhere to any of these tasks, the Township may perform the services required and charge me the appropriate fees. Nonpayment of the fees may result in a lien against my property.

KAREN L. LYSH
Property Owner Name (Printed)

Karen Lysh
Signature

8/3/15
Date

Section 12. This Agreement may only be amended by a written amendment executed by the party against whom enforcement is sought.

ATTEST/WITNESS:

Mareen S. Hartman

Karen L. Gish

[LANDOWNER]

Karen L. Gish

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this the 3rd day of August, 2015, before me, the undersigned officer, personally appeared Karen Sandra Cunningham, who executes himself/herself to be the Zoning Officer of Lower Windsor Township, a Second Class Township organized and existing under the laws of Pennsylvania, and that as such, being authorized to do so, executed the foregoing document for the purposes therein contained by signing the name of the Township by himself/herself as Zoning Officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Linda J. Zimmerman
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Linda J. Zimmerman, Notary Public
Lower Windsor Twp., York County
My Commission Expires Nov. 8, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this the 3rd day of August, 2015, before me, the undersigned officer, personally appeared Karen L. Gish, who executes this document and acknowledges he is authorized to do so and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Linda J. Zimmerman
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Linda J. Zimmerman, Notary Public
Lower Windsor Twp., York County
My Commission Expires Nov. 8, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

<Title>



**York
County
Assessment
Office**



- Road
- ▭ Municipalities
- ▨ 100 yr Floodplain
- (---) Easements
- Rail
- ▭ Parcels
- (▭) Soils

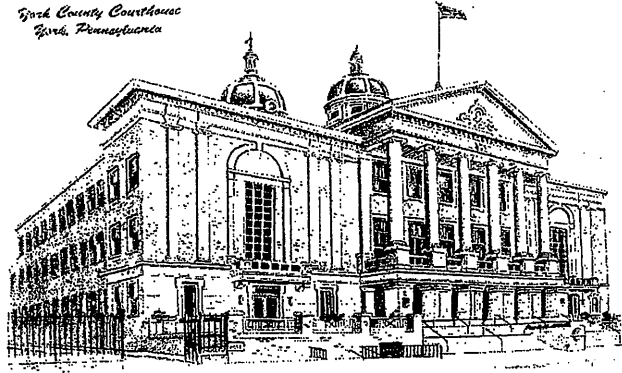
Maps are not from actual survey



150 Calvary Church Rd
Gish

02/22/2016
Scale 1:4800

York County Courthouse
York, Pennsylvania



YORK COUNTY RECORDER OF DEEDS
28 EAST MARKET STREET
YORK, PA 17401

Randi L. Reisinger - Recorder
Bradley G. Daugherty - Deputy

Instrument Number - 2016007706
Recorded On 2/26/2016 At 8:49:26 AM
* Instrument Type - MAINTENANCE AGREEMENT
Invoice Number - 1175565
* Grantor - GISH, KAREN L
* Grantee - LOWER WINDSOR TOWNSHIP
User - JMR
* Customer - LOWER WINDSOR TOWNSHIP

Book - 2358 Starting Page - 629
* Total Pages - 6

* Received By: COUNTER

* **FEEs**

STATE WRIT TAX	\$0.50
RECORDING FEES	\$15.00
PIN NUMBER FEES	\$10.00
COUNTY ARCHIVES FEE	\$2.00
ROD ARCHIVES FEE	\$3.00
TOTAL PAID	\$30.50

PARCEL IDENTIFICATION NUMBER
35000JM0081B000000
Total Parcels: 1

I Certify This Document To Be
Recorded In York County, Pa.



Randi L. Reisinger
Recorder of Deeds

THIS IS A CERTIFICATION PAGE
PLEASE DO NOT DETACH
THIS PAGE IS NOW PART OF THIS LEGAL DOCUMENT

* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

Book: 2358 Page: 634

#007 MAINTENANCE AGREEMENT \$30.50

Instrument Number - 2016007706
Recorded on - Feb 26, 2016 8:49:26 AM
Book: 2358 Page: 629
Total Pages: 6
Municipality - LOWER WINDSOR TOWNSHIP
Grantor - GISH, KAREN L
Grantee - LOWER WINDSOR TOWNSHIP
PARCEL IDENTIFICATION NUMBER
35000JM0081B000000

Fee Detail:
COUNTY RECORDING FEE \$13.00
PIN NUMBER FEE \$10.00
PER PAGE OVER 4 PAGES \$2.00
STATE WRIT FEE \$0.50
ARCHIVES FEE-COUNTY \$2.00
ARCHIVES FEE-RECORDER \$3.00

#008 PLAN IN GG BOOK \$9.00

Instrument Number - 2016007709
Recorded on - Feb 26, 2016 8:50:04 AM
Book: GG Page: 4025
Total Pages: 4
Municipality - LOWER WINDSOR TOWNSHIP
Grantor - GISH, KAREN L
Grantee - LOWER WINDSOR TOWNSHIP
PARCEL IDENTIFICATION NUMBER
N/A-LOWER WINDSOR TOWNSHIP

Fee Detail:
PLAN IN GG BOOK \$9.00

1AIN
7704

1716 Snyder Corner Rd
Windsor, PA 17366

ATTACHMENT C

UPI No. 35-000-IL-0093-00-00000
[Street Address, Municipality]

LOWER WINDSOR TWP

**STORMWATER OPERATION AND MAINTENANCE
AND RIGHT-OF-WAY AGREEMENT**

THIS AGREEMENT is made and entered into this 11 day of September, 2015, by and among Phyllis M. Schmidt [Owner], its/his/her successors, heirs, personal representatives and assigns, including specifically any future lot owner ("Landowner"), and Lower Windsor Township, York County; Pennsylvania, ("Township").



WITNESSETH

WHEREAS, the Landowner is the owner of real property located in Lower Windsor Township, York County, commonly known as [street address], with a UPI No. 35-000-IL-0093-00-00000 (the "Property").

WHEREAS, the Landowner is proceeding to build on and/or further develop impervious surface on the Property; and

WHEREAS, the SWM Site Plan (the "SWM Site Plan") which is expressly made a part hereof, as approved or to be approved by the Township, provides for the management of stormwater within the confines of the Property; and

WHEREAS, the SWM Site Plan includes a SWM Operation and Maintenance Plan approved by the Township (the "O&M Plan") for the Property, [which is attached hereto as Appendix A and made a part hereof/which is on file at the Township offices and made a part hereof] which provides for the establishment, operation and maintenance of SWM facilities and BMPs; and

WHEREAS, the Township and the Landowner agree that the health, safety and welfare of the residents of the Township and the protection and maintenance of water quality require that SWM facilities and BMPs be established, constructed and maintained on the Property; and

WHEREAS, the requires, through the implementation of the Township's Stormwater Management Ordinance; Ordinance No. 2012-13 (the "Stormwater Ordinance"), that SWM facilities and BMPs as required by the SWM Site Plan and the Stormwater Ordinance be established, constructed and adequately operated and maintained by the Landowner in accordance with the O&M Plan.

5P
2N

NOW, THEREFORE, in consideration of the foregoing promises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

Section 1. Unless otherwise defined in this Agreement, the terms used herein shall have the meaning given to them in the Stormwater Ordinance, as amended.

Section 2. The Landowner shall establish and/or construct the SWM facilities and BMPs in accordance with the terms, conditions and specifications identified in the SWM Site Plan. Except when expressly allowed by the Stormwater Ordinance, the Landowner shall not alter, modify, replace, relocate or in any way interfere with any SWM facilities or BMPs without the prior written permission of the Township.

Section 3. The Landowner shall adequately maintain the SWM facilities and BMPs shown on the SWM Site Plan in good working order in accordance with the specific O&M requirements set forth in the O&M Plan. This includes all swales,

pipes, channels built to convey and control stormwater, as well as all SWM BMP structures, improvements, and vegetation provided to control the quantity and quality of the stormwater. Adequate O&M is defined as good working condition, acceptable to the Township, so those facilities are performing their design functions and not having any adverse effects on water quality or adjoining or nearby roads, structures or properties. Adequate O&M will not be demonstrated merely by strict compliance with the SWM Site Plan or O&M Plan where the SWM Site Plan and O&M Plan are inadequate for stormwater management in the field.

Section 4. The Landowner hereby grants to the Township an easement appurtenant for the periodic inspections by the Township and repair of the SWM facilities and BMPs, if necessary. The Landowner may choose and periodically modify the easement location so long as the Landowner at all times maintains or provides an unobstructed means for access to and emergency maintenance of the SWM facilities and BMPs. The Township shall not be liable for restoration of the Property in the event of emergency maintenance or for any damages due to failure of the Landowner to provide unobstructed access to the SWM facilities and BMPs. Whenever possible, the Township shall notify the Landowner prior to entering the Property.

Section 5. In the event the Landowner fails to maintain the SWM facilities and/or BMPs in accordance with Section 3, the Township or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain the SWM facilities and BMPs. It is expressly understood and agreed that the Township is under no obligation to maintain or repair said SWM facilities and BMPs, and in no event shall this Agreement be construed to impose any such obligation on the Township.

Section 6. The Landowner hereby conveys to the Township an easement in gross for the periodic inspections by the Township and repair of the SWM facilities, if necessary. The Landowner shall at all times maintain or provide an unobstructed means for access to the SWM facilities and BMPs.

Section 7. In the event the Township, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like on account of the Landowner's failure to perform such work, the Landowner shall reimburse the Township upon demand, within 30 days of receipt of invoice thereof, for all costs, including engineer and attorney fees, incurred by the Township hereunder. If not paid within said 30-day period, the Township may enter a municipal lien against the property in the amount of such costs, or may proceed to recover his costs through proceedings in equity or at law as authorized under the provisions of the Municipal Claims and Tax Lien Act, 53 P.S. § 7101 *et seq.*

Section 8. The Landowner shall release the Township, its officials, employees, officers, agents and representatives, from all damages, accidents, casualties, occurrences or claims which might arise or be asserted against said persons from the construction, presence, existence or maintenance of the SWM facilities and BMPs by Landowner or Township. The Township disclaims all liability for design, construction, installation or operation defects. The grant of a permit or approval of a subdivision and/or land development plan shall not constitute a representation, guarantee, or warranty of any kind or liability upon the Township, its officials, or employees. None of the conditions or covenants contained in this Agreement shall be deemed a waiver of Township's rights or immunities granted by statute.

Section 9. Should any provision of this Agreement be interpreted to conflict with the Stormwater Ordinance, as amended or superseded, the provisions and requirements of the Stormwater Ordinance shall control interpretation. Should any provision of this Agreement be determined by a court to be unenforceable, such provision of this Agreement shall be deemed to be void; provided, however, the balance of the Agreement shall remain in full force and effect.

Section 10. This Agreement shall be recorded in the land records of York County, Pennsylvania and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, its/his/her successors, receivers, heirs, personal representatives and assigns, in perpetuity. Landowner will reference this Agreement and recording information in any deeds transferring or conveying the Property or any subdivided outparcels thereof.

Section 11. A violation or breach of this Agreement shall be deemed a violation of the Stormwater Ordinance, as amended, which shall be subject to all remedies and enforcement set forth therein. Landowner shall be responsible for all costs of enforcement (including attorney fees) of this Agreement, which costs shall be reimbursed to the Township upon demand within 30 days of the receipt of an invoice thereof. All invoiced amounts due under this Agreement for administration, maintenance, enforcement or otherwise that remain unpaid after 30 days from the date of invoice shall be assessed interest at the rate of 12% per annum until paid in full.

Sample Operation & Maintenance Plan for DIA and Equivalent DIA Regulated Activities

*For Seepage Beds and Trenches only. All other facilities will need an O&M Plan developed by the property owner.

Construction:

1. Install erosion and sedimentation control facilities.
2. Stormwater Management Facility (ies) shall be installed before impervious areas are completed. If earthwork is involved during the construction of the impervious area, then extreme caution shall be taken so that sediment does not wash into the SWM Facility (ies).
3. Mark the locations of the SWM facility (ies).
4. Excavate the SWM Facility to the required depth. Contact Township for inspection prior to filling. If standing water is encountered, a SWM Site Plan may need to be submitted; contact Township Engineer. All excavated materials shall be removed from the site or stabilized.
5. Line excavation with Geotextile.
6. Backfill SWM Facility with required stone. If required: Install piping, cleanouts and associated facilities as detailed.
7. If required: Close geotextile material over stone bedding.
8. If required: Place topsoil over trench.
9. Stabilize and seed all disturbed areas.

Maintenance

1. The SWM Facility shall be checked regularly to ensure that no standing water exists in the facility 3 days after a rain event.
 - a. If water is encountered, the facility may need to be modified. Notification of the Township is required if facility is not functioning and before any modifications are made.
2. Monitor the SWM facility to ensure that no sediment, grass clippings, leaves, and other similar accumulations occur on top of, and/or within, the SWM Facility.

Inspection Reports

1. Submit the provided Inspection Reports to the Township on the following schedule:
 - a. One year from the date of installation.
 - b. Every year following the initial inspection.
 - c. After any 10-year rain event (i.e. after an rain event that results in over 4 inches of rain in a 24 hour period)
2. Keep a record of all inspections.

I have read and agree to the above Operation and Maintenance Plan. I, as the property owner, am responsible for the proper construction, operation and maintenance, and filing the proper inspection reports for the SWM Facility. If I fail to adhere to any of these tasks, the Township may perform the services required and charge me the appropriate fees. Nonpayment of the fees may result in a lien against my property.

Phyllis M. Schmidt
Property Owner Name (Printed)

Phyllis M. Schmidt
Signature

9-11-2015
Date

Section 12. This Agreement may only be amended by a written amendment executed by the party against whom enforcement is sought.

ATTEST/WITNESS:

Sande Cunningham

Phyllis M. Schmidt
PRINTED NAME

[LANDOWNER]
Phyllis M. Schmidt
SIGNATURE

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this the 11th day of September, 2015, before me, the undersigned officer, personally appeared Sande Cunningham, who executes himself/herself to be the Zoning Officer of Lower Windsor Township, a Second Class Township organized and existing under the laws of Pennsylvania, and that as such, being authorized to do so, executed the foregoing document for the purposes therein contained by signing the name of the Township by himself/herself as Zoning Officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Linda J. Zimmerman
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Linda J. Zimmerman, Notary Public
Lower Windsor Twp., York County
My Commission Expires Nov. 8, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

COMMONWEALTH OF PENNSYLVANIA :
: SS
COUNTY OF YORK :

On this the 11th day of September, 2015, before me, the undersigned officer, personally appeared Phyllis M. Schmidt, who executes this document and acknowledges he is authorized to do so and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Linda J. Zimmerman
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Linda J. Zimmerman, Notary Public
Lower Windsor Twp., York County
My Commission Expires Nov. 8, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

<Title>

Parcel Key: 35000IL00930000000

Parcel ID:

Location: 1716 SNYDER CORNER RD

Owner: SCHMIDT PHYLLIS M

Land Value: \$40970

Building Value: \$57680

Total Value: \$98650

Deed Book/Page: 2323-8298

Grantor: HERBST JOHN J JR

Clean & Green: N

Acreage: 1.243

Land Class: 105

Sale Price: \$67500

Sale Date: Sun Jun 7 2015

Homestead Code:

Homestead Approv.:

Homestead %:

Farmstead Code:

Farmstead %:

Copy to Clipboard



York
County
Assessment
Office



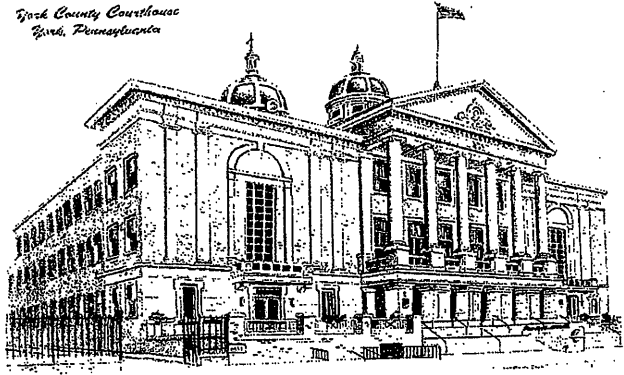
- Road
- ▭ Municipalities
- ▨ 100 yr Floodplain
- (--- Easements)
- Rail
- ▭ Parcels
- (▭ Soils)



Maps are not from actual survey

02/22/2016
Scale 1:1200

York County Courthouse
York, Pennsylvania



YORK COUNTY RECORDER OF DEEDS
28 EAST MARKET STREET
YORK, PA 17401

Randi L. Reisinger - Recorder
Bradley G. Daugherty - Deputy

Instrument Number - 2016007704
Recorded On 2/26/2016 At 8:46:21 AM
* Instrument Type - MAINTENANCE AGREEMENT
Invoice Number - 1175565
* Grantor - SCHMIDT, PHYLLIS M
* Grantee - LOWER WINDSOR TOWNSHIP
User - JMR
* Customer - LOWER WINDSOR TOWNSHIP

Book - 2358 Starting Page - 603
* Total Pages - 6

* Received By: COUNTER

* **FEEES**

STATE WRIT TAX	\$0.50
RECORDING FEES	\$15.00
PIN NUMBER FEES	\$10.00
COUNTY ARCHIVES FEE	\$2.00
ROD ARCHIVES FEE	\$3.00
TOTAL PAID	\$30.50

PARCEL IDENTIFICATION NUMBER
35000IL00930000000
Total Parcels: 1

I Certify This Document To Be
Recorded In York County, Pa.



Randi L. Reisinger
Recorder of Deeds

THIS IS A CERTIFICATION PAGE
PLEASE DO NOT DETACH
THIS PAGE IS NOW PART OF THIS LEGAL DOCUMENT

* - Information denoted by an asterisk may change during the verification process and may not be reflected on this page.

Book: 2358 Page: 608

#005 MAINTENANCE AGREEMENT \$30.50

Instrument Number - 2016007704
Recorded on - Feb 26, 2016 8:46:21 AM
Book: 2358 Page: 603
Total Pages: 6
Municipality - LOWER WINDSOR TOWNSHIP
Grantor - SCHMIDT, PHYLLIS M
Grantee - LOWER WINDSOR TOWNSHIP
PARCEL IDENTIFICATION NUMBER
35000I00930000000

Fee Detail:
COUNTY RECORDING FEE \$13.00
PIN NUMBER FEE \$10.00
PER PAGE OVER 4 PAGES \$2.00
STATE WRIT FEE \$0.50
ARCHIVES FEE-COUNTY \$2.00
ARCHIVES FEE-RECORDER \$3.00

#006 PLAN IN GG BOOK \$3.00

Instrument Number - 2016007705
Recorded on - Feb 26, 2016 8:46:53 AM
Book: GG Page: 4023
Total Pages: 2
Municipality - LOWER WINDSOR TOWNSHIP
Grantor - SCHMIDT, PHYLLIS M
Grantee - LOWER WINDSOR TOWNSHIP
PARCEL IDENTIFICATION NUMBER
N/A-LOWER WINDSOR TOWNSHIP

Fee Detail:
PLAN IN GG BOOK \$3.00

H/A
100

1505 Snyder Corner Rd
Red Lion, PA 17356

ATTACHMENT C

UPI No. 35000HL0178W000000

[Street Address, Municipality]

LOWER WINDSOR TWP



**STORMWATER OPERATION AND MAINTENANCE
AND RIGHT-OF-WAY AGREEMENT**

THIS AGREEMENT is made and entered into this 11th day of December, 2015, by and among Wid B. Woodring, Valerie A. Woodring & Catherine E. Woodring [Owner], its/his/her successors, heirs, personal representatives and assigns, including specifically any future lot owner ("Landowner"), and Lower Windsor Township, York County; Pennsylvania, ("Township"). *Landisk* *5/31/15*

WITNESSETH

WHEREAS, the Landowner is the owner of real property located in Lower Windsor Township, York County, commonly known as [street address], with a UPI No. 35000HL0178W000000 (the "Property").

WHEREAS, the Landowner is proceeding to build on and/or further develop impervious surface on the Property; and

WHEREAS, the SWM Site Plan (the "SWM Site Plan") which is expressly made a part hereof, as approved or to be approved by the Township, provides for the management of stormwater within the confines of the Property; and

WHEREAS, the SWM Site Plan includes a SWM Operation and Maintenance Plan approved by the Township (the "O&M Plan") for the Property, [which is attached hereto as Appendix A and made a part hereof/which is on file at the Township offices and made a part hereof] which provides for the establishment, operation and maintenance of SWM facilities and BMPs; and

WHEREAS, the Township and the Landowner agree that the health, safety and welfare of the residents of the Township and the protection and maintenance of water quality require that SWM facilities and BMPs be established, constructed and maintained on the Property; and

WHEREAS, the requires, through the implementation of the Township's Stormwater Management Ordinance, Ordinance No. 2012-13 (the "Stormwater Ordinance"), that SWM facilities and BMPs as required by the SWM Site Plan and the Stormwater Ordinance be established, constructed and adequately operated and maintained by the Landowner in accordance with the O&M Plan. *5P* *4N*

NOW, THEREFORE, in consideration of the foregoing promises, the mutual covenants contained herein, and the following terms and conditions, the parties hereto agree as follows:

Section 1. Unless otherwise defined in this Agreement, the terms used herein shall have the meaning given to them in the Stormwater Ordinance, as amended.

Section 2. The Landowner shall establish and/or construct the SWM facilities and BMPs in accordance with the terms, conditions and specifications identified in the SWM Site Plan. Except when expressly allowed by the Stormwater Ordinance, the Landowner shall not alter, modify, replace, relocate or in any way interfere with any SWM facilities or BMPs without the prior written permission of the Township.

Section 3. The Landowner shall adequately maintain the SWM facilities and BMPs shown on the SWM Site Plan in good working order in accordance with the specific O&M requirements set forth in the O&M Plan. This includes all swales,

es, channels built to convey and control stormwater, as well as all SWM BMP structures, improvements, and vegetation wided to control the quantity and quality of the stormwater. Adequate O&M is defined as good working condition, acceptable the Township, so those facilities are performing their design functions and not having any adverse effects on water quality or oining or nearby roads, structures or properties. Adequate O&M will not be demonstrated merely by strict compliance with the M Site Plan or O&M Plan where the SWM Site Plan and O&M Plan are inadequate for stormwater management in the field.

Section 4. The Landowner hereby grants to the Township an easement appurtenant for the periodic inspections by Township and repair of the SWM facilities and BMPs, if necessary. The Landowner may choose and periodically modify the ement location so long as the Landowner at all times maintains or provides an unobstructed means for access to and emergency intenance of the SWM facilities and BMPs. The Township shall not be liable for restoration of the Property in the event of emergency maintenance or for any damages due to failure of the Landowner to provide unobstructed access to the SWM facilities l BMPs. Whenever possible, the Township shall notify the Landowner prior to entering the Property.

Section 5. In the event the Landowner fails to maintain the SWM facilities and/or BMPs in accordance with Section he Township or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain the M facilities and BMPs. It is expressly understood and agreed that the Township is under no obligation to maintain or repair d SWM facilities and BMPs, and in no event shall this Agreement be construed to impose any such obligation on the Township.

Section 6. The Landowner hereby conveys to the Township an easement in gross for the periodic inspections by the wnship and repair of the SWM facilities, if necessary. The Landowner shall at all times maintain or provide an unobstructed ans for access to the SWM facilities and BMPs.

Section 7. In the event the Township, pursuant to this Agreement, performs work of any nature, or expends any ds in performance of said work for labor, use of equipment, supplies, materials, and the like on account of the Landowner's ure to perform such work, the Landowner shall reimburse the Township upon demand, within 30 days of receipt of invoice roof, for all costs, including engineer and attorney fees, incurred by the Township hereunder. If not paid within said 30-day iod, the Township may enter a municipal lien against the property in the amount of such costs, or may proceed to recover his ts through proceedings in equity or at law as authorized under the provisions of the Municipal Claims and Tax Lien Act, 53 l. § 7101 *et seq.*

Section 8. The Landowner shall release the Township, its officials, employees, officers, agents and representatives, m all damages, accidents, casualties, occurrences or claims which might arise or be asserted against said persons from the istruction, presence, existence or maintenance of the SWM facilities and BMPs by Landowner or Township. The Township claims all liability for design, construction, installation or operation defects. The grant of a permit or approval of a subdivision M/or land development plan shall not constitute a representation, guarantee, or warranty of any kind or liability upon the wnship, its officials, or employees. None of the conditions or covenants contained in this Agreement shall be deemed a waiver Township's rights or immunities granted by statute.

Section 9. Should any provision of this Agreement be interpreted to conflict with the Stormwater Ordinance, as ended or superseded, the provisions and requirements of the Stormwater Ordinance shall control interpretation. Should any vvision of this Agreement be determined by a court to be unenforceable, such provision of this Agreement shall be deemed to be id; provided, however, the balance of the Agreement shall remain in full force and effect.

Section 10. This Agreement shall be recorded in the land records of York County, Pennsylvania and shall constitute a venant running with the Property and/or equitable servitude, and shall be binding on the Landowner, its/his/her successors, eivers, heirs, personal representatives and assigns, in perpetuity. Landowner will reference this Agreement and recording ormation in any deeds transferring or conveying the Property or any subdivided outparcels thereof.

Section 11. A violation or breach of this Agreement shall be deemed a violation of the Stormwater Ordinance, as ended, which shall be subject to all remedies and enforcement set forth therein. Landowner shall be responsible for all costs of forcement (including attorney fees) of this Agreement, which costs shall be reimbursed to the Township upon demand within 30 ys of the receipt of an invoice thereof. All invoiced amounts due under this Agreement for administration, maintenance, forcement or otherwise that remain unpaid after 30 days from the date of invoice shall be assessed interest at the rate of 12% per num until paid in full.

Section 12. This Agreement may only be amended by a written amendment executed by the party against whom enforcement is sought.

TEST/WITNESS:

Sande Cunningham

[LANDOWNER]

CATHERINE E LANDIS
Valerie A. Woodring
David B. Woodring Jr.
COMMONWEALTH OF PENNSYLVANIA :

Catherine E Landis
SIGNATURE
Valerie A Woodring
David B Woodring Jr

: SS

COUNTY OF YORK

On this the 11th day of December, 2015, before me, the undersigned officer, personally appeared Sande Cunningham, who executes himself/herself to be the Zoning Officer of Lower Windsor Township, a Second Class Township organized and existing under the laws of Pennsylvania, and that as such, being authorized to do so, executed the foregoing document for the purposes therein contained by signing the name of the Township by himself/herself as Zoning Officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Linda J Zimmerman
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Linda J. Zimmerman, Notary Public
Lower Windsor Twp., York County
My Commission Expires Nov. 8, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

COMMONWEALTH OF PENNSYLVANIA :

: SS

COUNTY OF YORK

On this the 11th day of December, 2015, before me, the undersigned officer, personally appeared David B. Woodring Jr, Valerie A. Woodring + Catherine E. Landis, who executes this document and acknowledges he is authorized to do so and acknowledged that he executed the same for the purposes therein contained.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

Linda J Zimmerman
Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Linda J. Zimmerman, Notary Public
Lower Windsor Twp., York County
My Commission Expires Nov. 8, 2016
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Sample Operation & Maintenance Plan for DIA and Equivalent DIA Regulated Activities

For Seepage Beds and Trenches only. All other facilities will need an O&M Plan developed by the property owner.

Construction:

1. Install erosion and sedimentation control facilities.
2. Stormwater Management Facility (ies) shall be installed before impervious areas are completed. If earthwork is involved during the construction of the impervious area, then extreme caution shall be taken so that sediment does not wash into the SWM Facility (ies).
3. Mark the locations of the SWM facility (ies).
4. Excavate the SWM Facility to the required depth. Contact Township for inspection prior to filling. If standing water is encountered, a SWM Site Plan may need to be submitted; contact Township Engineer. All excavated materials shall be removed from the site or stabilized.
5. Line excavation with Geotextile.
6. Backfill SWM Facility with required stone. If required: Install piping, cleanouts and associated facilities as detailed.
7. If required: Close geotextile material over stone bedding.
8. If required: Place topsoil over trench.
9. Stabilize and seed all disturbed areas.

Maintenance

1. The SWM Facility shall be checked regularly to ensure that no standing water exists in the facility 3 days after a rain event.
 - a. If water is encountered, the facility may need to be modified. Notification of the Township is required if facility is not functioning and before any modifications are made.
2. Monitor the SWM facility to ensure that no sediment, grass clippings, leaves, and other similar accumulations occur on top of, and/or within, the SWM Facility.

Inspection Reports

1. Submit the provided Inspection Reports to the Township on the following schedule:
 - a. One year from the date of installation.
 - b. Every year following the initial inspection.
 - c. After any 10-year rain event (i.e. after an rain event that results in over 4 inches of rain in a 24 hour period)
2. Keep a record of all inspections.

I have read and agree to the above Operation and Maintenance Plan. I, as the property owner, am responsible for the proper construction, operation and maintenance, and filing the proper inspection reports for the SWM Facility. If I fail to adhere to any of these tasks, the Township may perform the services required and charge me the appropriate fees. Nonpayment of the fees may result in a lien against my property.

CATHERINE E. LANDIS
 Property Owner Name (Printed)
 Valerie A. Woodring
 David B. Woodring, Jr.

Catherine E Landis
 Signature
 Valerie A Woodring
 David B Woodring Jr.

12/11/15
 Date
 12/11/15
 12/11/15

<Title>

Parcel Key: 35000HL0178W000000

Parcel ID:

Location: SNYDER CORNER RD

Owner: WOODRING DAVID B JR & VALERIE A ET AL

Land Value: \$31560

Building Value: \$0

Total Value: \$31560

Deed Book/Page: 2338-8538

Grantor: LANDIS CATHERINE E

Clean & Green: N

Acreage: 1.390

Land Class: 100

Sale Price: \$1

Sale Date: Wed Sep 23 2015

Homestead Code:

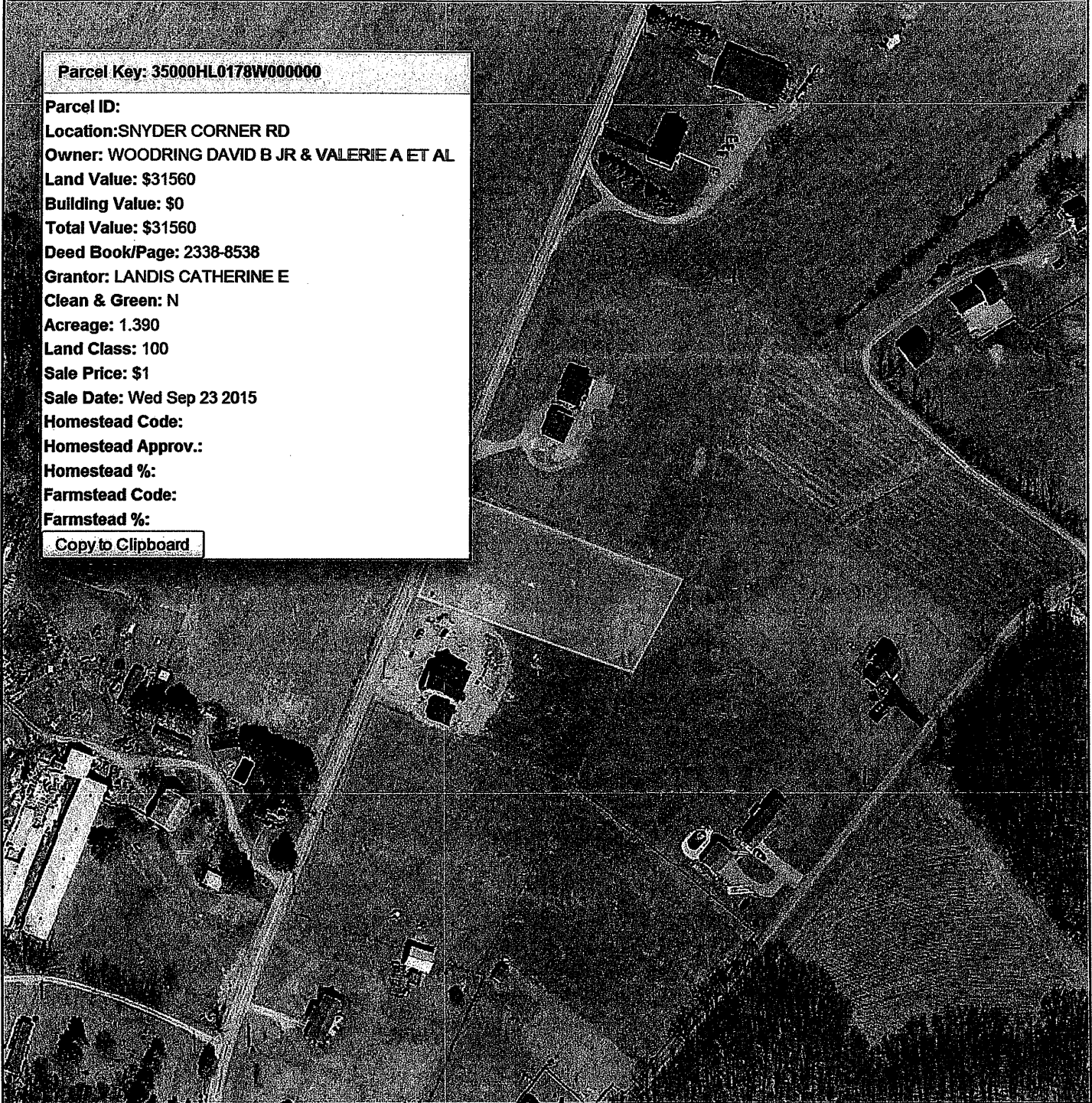
Homestead Approv.:

Homestead %:

Farmstead Code:

Farmstead %:

Copy to Clipboard



York
County
Assessment
Office

— Road

▭ Municipalities

▨ 100 yr Floodplain

(---) Easements)

Maps are not from actual survey

— Rail

▭ Parcels

(▭) Soils)



02/22/2016
Scale 1:2400

RECORDERS OFFICE
YORK COUNTY, PA

INVOICE # 1175565
0601-RECEIPT JMR

-- CHARGES --

#001 MAINTENANCE AGREEMENT \$30.50

Instrument Number - 2016007700
Recorded on - Feb 26, 2016 8:41:26 AM
Book: 2358 Page: 591
Total Pages: 6
Municipality - LOWER WINDSOR TOWNSHIP
Grantor - WOODRING, DAVID B JR
Grantee - LOWER WINDSOR TOWNSHIP
PARCEL IDENTIFICATION NUMBER
35000HLD178W000000

Fee Detail:

COUNTY RECORDING FEE	\$13.00
PIN NUMBER FEE	\$10.00
PER PAGE OVER 4 PAGES	\$2.00
STATE WRIT FEE	\$0.50
ARCHIVES FEE-COUNTY	\$2.00
ARCHIVES FEE-RECORDER	\$3.00

#002 PLAN IN GG BOOK \$3.00

Instrument Number - 2016007701
Recorded on - Feb 26, 2016 8:41:27 AM
Book: GG Page: 4017
Total Pages: 2
Municipality - LOWER WINDSOR TOWNSHIP
Grantor - WOODRING, DAVID B JR
Grantee - LOWER WINDSOR TOWNSHIP
PARCEL IDENTIFICATION NUMBER
N/A-LOWER WINDSOR TOWNSHIP

Fee Detail:

PLAN IN GG BOOK	\$3.00
-----------------	--------

MCM #6 Appendix

- **MCM #6 Project Plan**
- **BMP 6.2 Attachments**
 - Standard Operating Procedures
 - Storm Sewer Maintenance Report March 2016
 - Storm Sewer Maintenance Report February 2016
- **BMP 6.3 Attachments**
 - Training List 2015-2016

MCM #6 Project Plan

- BMP 6.1

Description:

Identify and document all facilities and activities that are owned or operated by the permittee and have the potential for generating stormwater runoff to the regulated small MS4. This includes activities conducted by contractors for the permittee. Activities may include the following: street sweeping; snow removal/deicing; inlet/outfall cleaning; lawn/grounds care; general storm sewer system inspections and maintenance/repairs; park and open space maintenance; municipal building maintenance; new construction and land disturbances; right-of-way maintenance; vehicle operation, fueling, washing and maintenance; and material transfer operations, including leaf/yard debris pickup and disposal procedures. Facilities can include streets; roads; highways; parking lots and other large paved surfaces; maintenance and storage yards; waste transfer stations; parks; fleet or maintenance shops; wastewater treatment plants; stormwater conveyances (open and closed pipe); riparian buffers; and stormwater storage or treatment units (e.g., basins, infiltration/filtering structures, constructed wetlands, etc.).

Measurable Goal:

By the end of the first year of permit coverage, new permittees shall identify and document all types of municipal operations, facilities and activities and land uses that may contribute to stormwater runoff within areas of municipal operations that discharge to the regulated small MS4. Renewal permittees should have completed this list during the previous permit term. For all permittees, this information shall be reviewed and updated each year of permit coverage, as needed. Part of this effort shall include maintaining a basic inventory of various municipal operations and facilities.

Action Plan:

With the recent completion of the Township's new highway maintenance building, the Township is creating a municipal operations, facilities, and activity inventory.

i) The following activities occur within the Township's MS4:

- (1) Street sweeping (conducted by Republic Services)
- (2) Snow removal
- (3) Inlet/outlet cleaning
- (4) Grounds Care (in the Township's two parks and around the Township building)
- (5) General storm sewer maintenance
- (6) Park Maintenance
- (7) Municipal building maintenance (conducted by Township staff, not a 3rd party provider)
- (8) ROW maintenance
- (9) Vehicle operation, fueling, washing, maintenance

- BMP 6.2

Description:

Develop, implement and maintain a written operation and maintenance (O&M) program for all municipal operations and facilities that could contribute to the discharge of pollutants from the regulated small MS4s, as identified under BMP #1. This program (or programs) shall address municipally owned stormwater collection or conveyance systems, but could include other areas (as identified under BMP #1). The O&M program(s) should stress pollution prevention and good housekeeping measures, contain site-specific information, and address the following areas:

- Management practices, policies, procedures, etc. shall be developed and implemented to reduce or prevent the discharge of pollutants to your regulated small MS4s. You should consider eliminating maintenance-area discharges from floor drains and other drains if they have the potential to discharge to storm sewers.

- Maintenance activities, maintenance schedules, and inspection procedures to reduce the potential for pollutants to reach your regulated small MS4s. You also should review your procedures for maintaining your stormwater BMPs.
- 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 (anti-skid) storage locations and snow disposal areas.
- Procedures for the proper disposal of waste removed from your regulated small MS4s and your municipal operations, including dredge spoil, accumulated sediments, trash, household hazardous waste, used motor oil, and other debris.

Measurable Goal:

During the first year of permit coverage, new permittees shall develop and implement a written O&M program that complies with BMPs #1 and #2. Renewal permittees shall continue to implement their existing program. All permittees shall review the O&M program annually, edit as necessary, and continue to implement during every year of permit coverage.

Action Plan:

The Township has developed the following plans to address maintenance:

i) Maintenance & Storage Yards/Fleet or Maintenance Shops

Vehicle maintenance and cleaning is conducted at the Township's new building, in accordance with the Township's SOP

ii) Parks

Parks are maintained by mowing and weeding, typically starting in the spring, and ending in the fall. Parks are typically mowed once or twice a week. Grass is not collected, but in the event it is collected, it is taken to an approved drop-off facility.

iii) Stormwater Conveyances, Storm Drains

Storm drains and stormwater easements are maintained by the Township staff in accordance with requirements from this permit.

iv) Street Sweeping

Street sweeping is provided through a 3rd party, Republic Services, since Lower Windsor Township is a host community for their landfill.

v) Brush Collection

Lower Windsor Township uses a 3rd party to provide yard waste recycling to residents.

● **BMP 6.3**

Description:

Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from municipal operations to your regulated small MS4s. The program may be developed and implemented using guidance and training materials that are available from federal, state or local agencies, or other organizations. Any municipal employee or contractor shall receive training. This could include public works staff, building / zoning / code enforcement staff, engineering staff (on-site and contracted), administrative staff, elected officials, police and fire responders, volunteers, and contracted personnel. Training topics should include operation, inspection, maintenance and repair activities associated with any of the municipal operations / facilities identified under BMP #1. Training should cover all relevant parts of the permittee's overall stormwater management program that could affect municipal operations, such as illicit discharge detection and elimination, construction sites, and ordinance requirements.


Measurable Goal:

During the first year of permit coverage, new permittees shall develop and implement a training program that identifies the training topics that will be covered, and what training methods and materials will be used. Renewal permittees shall continue to operate under their existing program. All permittees shall review the training program annually, edit it as necessary, and continue to implement it during every year of permit coverage. Your employee training shall occur at least annually (i.e., during each permit coverage year) and shall be fully documented in writing and reported in your periodic reports. Documentation shall include the date(s) of the training, the names of attendees, the topics covered, and the training presenter(s).

Action Plan:

The Township Employees whom receive training throughout the year are the Township Manager and Zoning Officer. The Township Road Master is periodically advised of updates from various agencies through memos from the Township Manager. Certain training events warrant all members of the Township's highway department.

Training is typically provided by PennDOT, LTAP, York County Planning Commission (Transportation Division), and various local municipalities and organizations conducting training for the MS4 requirements. The Staff meets regularly with the Township Engineer to discuss MS4-related matters.


Standard Operating Procedures (SOPs) for		
WEED, PEST CONTROL AND MOWING		
Purpose	Protect stormwater by properly storing, applying and disposing of herbicides and pesticides.	
Administrator of SOP	Kim Miller, Road Master Maureen Hartman, Township Manager	

1. Pesticide Use

- Ensure that pesticides are only applied by personnel certified to do so. NO OTHER EMPLOYEE SHALL ADMINISTER PESTICIDES UNLESS CERTIFIED BY THE STATE OF PENNSYLVANIA.
- Use, store and dispose of all chemicals and waste products according to manufacturer's specifications and any state or local requirements.
- Cleanup any spilled chemicals.
- Store pesticides and herbicides in the combustible/flammable container located in the highway maintenance building.
- Use only when necessary. Recommend mowing and trimming along Township roadways.
- Use alternative methods whenever possible (such as biorational insecticides (natural soaps and oils).
- Rinse equipment only when necessary and use rinse water to dilute next mix as long as application rates are not exceeded.
- Mix/load pesticides in an area where spills can be contained.
- Reduce seed release of weeds by timing cutting at seed set.
- Establish setback distances from pavement, storm drains, and water bodies, allowing these areas to serve as buffers with disease-resistant plants & minimal mowing.

2. Mowing & Trimming

- Preparation
 - Review the overall process with all employees.
 - Check the oil and fuel levels of the mowers and other equipment. Fill if needed and only in designated areas of the highway maintenance facility.
- Process
 - Protect catch basins where applicable.
 - Wear eye and hearing protection.
 - Mow and trim the lawn.
 - Sweep or blow clippings to grass areas.
- Cleanup
 - Wash equipment in the approved wash bay.

Standard Operating Procedures (SOPs) for		
MAINTENANCE OF VEHICLES		
Purpose	Stormwater pollution prevention procedures for fleet and vehicle maintenance operations including emergency repair operations.	
Administrator of SOP	Kim Miller, Road Master Maureen Hartman, Township Manager	

1. Stormwater Protection Equipment and Materials

- Weatherproof containers.
- Polly or plastic pallets.
- Drum covers.
- Tarps.
- Spill kit and equipment for dry clean up (socks, absorbent pads, litter, broom).
- Drip pans.

2. Vehicle & Equipment Maintenance

When Township vehicles are not sent to a Den's, River's or Susquehanna Dodge, the following shall be implemented:


- Move leaking vehicles or equipment indoors or under cover.
- Use drip pans for leaking vehicles that need to be stored outside.
- Contain leaking fluids and tag the vehicle to alert drivers that vehicle is non-operational.
- Perform all maintenance activities involving fluids indoors only.
- Dispose of wastewater from tire leak check appropriately.
- Clean all parts indoors using the parts washer.
- Wash vehicles in the dedicated wash bay.
- Use Vehicle and Equipment Maintenance Spreadsheet to track all oil and filter changes, as well as any vehicle maintenance conducted.

3. Emergency Maintenance Operations

- Use drip pans underneath vehicles to catch leaks and drips.
- Have spill kits on all response vehicles.
- Move vehicle to an impervious surface if possible (for better spill cleanup).
- Notify the Road Master and or Township Manager.
- Never hose down spills or leaks.

4. Good Housekeeping and Waste Disposal

- Clean up spills promptly.
- Transfer fluids from drip pans to the appropriate waste containers immediately.
- Routinely check any equipment stored outside for leaks.
- Maintain oil/water separator according to regular pumping schedule with the septic tanks.
- Keep lids on dumpsters closed when not in use.
- Keep Recycle Area free of debris accumulation and spills.

Standard Operating Procedures (SOPs) for		
FUELING & FUEL SPILL CLEAN UP		
Purpose	Stormwater pollution prevention procedures for municipal operations where vehicles and/or equipment are fueled with gasoline or diesel fuel. This SOP also applies to fueling from stationary tanks above or underground, and from portable tanks and containers in the field.	
Administrator of SOP	Kim Miller, Road Master Maureen Hartman, Township Manager	

1. Fueling

- Fuel carefully to minimize drips on the ground.
- Post signage prohibiting ‘topping off’ and describing spill response procedures.
- Require that the person doing the fueling remain present during entire fueling operation. Don’t walk away or retreat to cab of vehicle.
- **NO CELL PHONE USAGE WHILE FUELING.**
- Locate the emergency shut off switch near the Fuel Island and use if necessary.
- Keep a spill kit at or near each fueling area.
- Employees are trained to clean up spills and dirty absorbent.
- Employees will inspect the fueling island and equipment daily. Spills will be cleaned immediately.
- PWI is responsible for fuel pumps.
- When fueling small equipment in the field like lawn mowers, small sweepers, weed whackers, blowers, portable generators, etc., do so over a paved or concrete area, well away from any storm drains or ditches. When pouring fuel from a portable can, use a funnel.


2. Locate Storm Drains

- Locate and block any storm drains on site and ensure that any spilled fuel does not reach drains or waterways.

3. Fuel Spill Cleanup


- Clean up spills thoroughly and promptly.
- Always use dry methods for cleanup of fuel spills such as gas, diesel & kerosene.
 - Spread absorbents on the spill.
 - Sweep up or pick up absorbed materials.
 - Dispose of wastes properly.
- If fluids are leaking or have spilled on an impermeable surface, locate the nearest down gradient storm drain and dike or berm the drain to prevent fluids from entering.
- After clean up, be sure to sweep up the contaminated absorbent and remove berm or dike from storm drain area.
- Never hose down spills or leaks.

- Significant spills should be reported to
 - York County Department of Emergency Services
Phone: 717-840-2990
Fax: 717-840-7406
oem@ycdes.org

Standard Operating Procedures (SOPs) for		
INLET AND OUTFALL CLEANING		
Purpose	To provide time-tested, generally accepted routine procedures that minimize the potential for release of pollutants from a site during the performance of municipal operations activities.	
Administrator of SOP	Kim Miller, Road Master Maureen Hartman, Township Manager	

1. Outfalls and Inlets

- Make thorough inspections of all outfalls in the spring, fall and after severe storm events when the soil is wet and the subsurface drains are running. Make sure that all of the markers are still in place and clearly visible.
- Examine end pipes and any erosion control such as riprap aprons for scour and undermining and to confirm that water is not draining from under and/or around the end pipe.
- Check the end pipe for damage caused by ice. Remove any trash, debris or plant material that has accumulated around the end pipe to ensure that it continues to function properly.
- Make any repairs or replace the grate if necessary.
- Look for signs of sediment in drain discharge and in the receiving ditch. Sediment at the drain outfall indicates that there is soil entering the drainage system from bad joints, crushed pipe or the need for a drain envelope. Quite a bit of sediment may come out of the system in its first year, but this should not persist. Locate the area where the sediment is entering the drainage system and repair the drain or remove the sediment.
- Maintain street inlets, storm sewers, culverts, and other conveyance features. Keep sediment and debris buildup from entering the stormwater system.
- Measure and identify debris collected and dispose of properly.
- Maintain a spreadsheet of weight or estimated amount of collected debris.

Standard Operating Procedures (SOPs) for		
MAINTENANCE OF VEHICLES		
Purpose	Stormwater pollution prevention procedures for fleet and vehicle maintenance operations including emergency repair operations.	
Administrator of SOP	Kim Miller, Road Master Maureen Hartman, Township Manager	

1. Stormwater Protection Equipment and Materials

- Weatherproof containers.
- Polly or plastic pallets.
- Drum covers.
- Tarps.
- Spill kit and equipment for dry clean up (socks, absorbent pads, litter, broom).
- Drip pans.

2. Vehicle & Equipment Maintenance

When Township vehicles are not sent to a Den's, River's or Susquehanna Dodge, the following shall be implemented:


- Move leaking vehicles or equipment indoors or under cover.
- Use drip pans for leaking vehicles that need to be stored outside.
- Contain leaking fluids and tag the vehicle to alert drivers that vehicle is non-operational.
- Perform all maintenance activities involving fluids indoors only.
- Dispose of wastewater from tire leak check appropriately.
- Clean all parts indoors using the parts washer.
- Wash vehicles in the dedicated wash bay.
- Use Vehicle and Equipment Maintenance Spreadsheet to track all oil and filter changes, as well as any vehicle maintenance conducted.

3. Emergency Maintenance Operations

- Use drip pans underneath vehicles to catch leaks and drips.
- Have spill kits on all response vehicles.
- Move vehicle to an impervious surface if possible (for better spill cleanup).
- Notify the Road Master and or Township Manager.
- Never hose down spills or leaks.

4. Good Housekeeping and Waste Disposal

- Clean up spills promptly.
- Transfer fluids from drip pans to the appropriate waste containers immediately.
- Routinely check any equipment stored outside for leaks.
- Maintain oil/water separator according to regular pumping schedule with the septic tanks.
- Keep lids on dumpsters closed when not in use.
- Keep Recycle Area free of debris accumulation and spills.

Standard Operating Procedures (SOPs) for		
SNOW REMOVAL – PUBLIC ROADWAYS, PARKS, MUNICIPAL FACILITY		
Purpose	Stormwater pollution prevention procedures for snow and ice removal.	
Administrator of SOP	Kim Miller, Road Master Maureen Hartman, Township Manager	

1. Preparation

- Store de-icing materials under a covered storage area (salt shed).
- Wash out vehicles (if necessary) in wash bay before preparing them for snow removal.
- Calibrate spreaders to minimize amount of de-icing materials used and still be effective.
- Vehicles have spill cleanup kits in case of hydraulic line rupture or other spills. Maintenance building is prepared for these spills.
- Train employees in spill cleanup procedures and proper handling and storage of de-icing materials.

2. Process

- Carefully load material into trucks, minimizing spillage.
- Periodically dry sweep loading area to reduce the amount of de-icing materials exposed to runoff.
- Only use specified calibrated amounts.
- Distribute the minimum amount of de-icing material to be effective on roads.
- Turn spreader off while loading and any other time the vehicle is not moving in the forward position.
- Park trucks loaded with material inside whenever possible.


3. Cleanup

- Sweep up all spilled de-icing material around loading area and salt shed.
- Clean out trucks after snow removal duty in approved wash bay.
- Provide maintenance for vehicle in covered area.

4. Removal Priorities

- Snow emergency routes shall go into effect when a snow emergency is deemed necessary by the Emergency Management Coordinator, Board of Supervisors, or Township Manager. Snow emergency routes are in effect after three (3) inches of snowfall.
- Primary Routes - Major arterials and school access are the critical routes providing access into and out of Lower Windsor. Snow removal efforts will be concentrated on the primary routes throughout the snowstorm.
- Secondary Routes - Minor arterials and collector streets connecting the neighborhoods to the primary routes. These routes are plowed only after all primary routes have been done.


- Tertiary Routes - Residential or local streets are not plowed or treated except after very severe winter storms. When snowstorms leave an accumulation of 12 inches or more of snow and the snow is expected to remain for several days, snowplows will move into effected residential areas after completing service on primary and secondary streets. Plows perform one center pass.
- After the roadways are completed, the municipal facility and senior center are then plowed. Parks are last, if necessary. Plow drivers should always try to do the police parking area so that emergency vehicles can enter/exit the garage safely.

Standard Operating Procedures (SOPs) for		
STREET SWEEPING**		
Purpose	Protect stormwater by removing sediment and other metals, debris, and pollutants from local roadways.	
Administrator of SOP	Kim Miller, Road Master Maureen Hartman, Township Manager	

1. When/If Township sweeps roadways

- Inspect equipment for functionality and cleanliness.
- Weigh or estimate weight of all debris and document and retain information in file.
- Dispose of collected materials in approved areas.
- Within 30 days of street sweeping, all outlets will be cleaned.
- Clean equipment following use.
- Maintain record of operation for vehicle.
- Report problem areas (illegal dumping, spills, etc.).
- Clean areas/roadways where spills due to traffic accidents have occurred before next rainfall.
- Perform street sweeping on an appropriate schedule to reduce the amount of sediment, debris and organic matter entering basins, swales or water bodies, which in turn reduces the frequency in which they will need to be cleaned.

****NOTE:** Street sweeping is performed by Republic Services at no charge to Lower Windsor Township due to the Host Agreement with the Republic Services Landfill.

Standard Operating Procedures (SOPs) for		
BRUSH COLLECTION		
Purpose	Protect stormwater by properly collecting and mulching brush.	
Administrator of SOP	Kim Miller, Road Master Maureen Hartman, Township Manager	

1. ELECTRONICS

As of December 19, 2015, the York County Solid Waste Authority suspended their electronic recycling program in York County until further notice. The suspension also applies to municipal satellite programs, which includes Lower Windsor Township.

2. BRUSH

- Drop off is located at 111 Walnut Valley Court and is conducted the second Saturday of each month from 7:00 a.m. to 9:00 a.m.
- Proof of residency is required and employees will enforce residency requirements.
- Acceptable materials: tree branches, brush, stumps (no more than 50 lbs), and roots with intact root balls.
- NO dumping of leaves, grass clippings, garden debris, tree/shrub clippings, twigs & sticks, dirt, wood chips, wood shavings, or any garbage or recycling items.
- NO biodegradable paper bags/plastic bags filled with yard waste or emptied out are allowed.
- Contracted or professional services may not use the drop-off location.
- Residents shall not be permitted to stand with employees while working the chipper.
- Employees will assist and direct residents into the brush drop-off area.
- Employees must wear back, eye, and ear protection.
- Mulch piles will be covered with tarps and stored away from any storm drain.
- Mulch can be picked up at a later date by residents, who call in advance and provide pick-up times during business hours.
- Township may drop off mulch to homeowners if their schedule permits and with the express permission of the Township Manager and or Elected Officials.
- This site is monitored by surveillance cameras.

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-14

_____ REPORTED PROBLEM

ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Winters

PROBLEM:

Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 7-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: water st

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

(INLET) MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Valley View

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

clean Basin

EMPLOYEE(S):
(Circle Name(s))

(KIM)

JEFF

CASEY

(KYLE)

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Trinity North

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

**ACTION
TAKEN:**

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

REPORTED PROBLEM

X
ROUTINE MAINTENANCE

(INLET) MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: ABBY

PROBLEM:

X Debris Blocking Inlet Excessive Debris in Structure

Cleaning Pipe Mowing Basin

Other (Describe) _____

ACTION
TAKEN:

clean Basin

EMPLOYEE(S):
(Circle Name(s))

(KIM)

JEFF

CASEY

(KYLE)

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

(INLET) MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Snyders corner

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

(KIM)

JEFF

CASEY

(KYLE)

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

~~_____~~ ROUTINE MAINTENANCE

INLET **MANHOLE** **PIPE** **OTHER** (CIRCLE ONE)

LOCATION: Penny Ln

PROBLEM:

Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

α ROUTINE MAINTENANCE

(INLET) MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Oak Hill

PROBLEM:

X Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION TAKEN: Clean Basin

EMPLOYEE(S): (KIM) JEFF CASEY
(Circle Name(s))
 (KYLE) TODD OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Knights view

PROBLEM:

Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Keller

PROBLEM:

Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report

DATE: Jamison 3-10-16

REPORTED PROBLEM

X
ROUTINE MAINTENANCE

(INLET) MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Jamison

PROBLEM:

X Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN: Clean Basin

EMPLOYEE(S):
(Circle Name(s))

(KIM) JEFF CASEY

(KYLE) TODD OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

REPORTED PROBLEM

X
ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Haugh Rd

PROBLEM:

X Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Fox Creek

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: E/ham

PROBLEM:

Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

**ACTION
TAKEN:**

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

 X ROUTINE MAINTENANCE

 INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Elfrer

PROBLEM:

 X Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

 KIM

JEFF

CASEY

 KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

α _____ ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Dallas Dr.

PROBLEM:

α _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Country Ln

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-14

_____ REPORTED PROBLEM

 X ROUTINE MAINTENANCE

 INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Basshinger

PROBLEM:

 X Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

 KIM

JEFF

CASEY

 KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Apple tree

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

**ACTION
TAKEN:**

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

 REPORTED PROBLEM

X **ROUTINE MAINTENANCE**

INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Bank Hill Rd

PROBLEM:

X **Debris Blocking Inlet**

 Excessive Debris in Structure

 Cleaning Pipe

 Mowing Basin

 Other (Describe) _____

ACTION TAKEN:

Clean basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Meisenholder rd

PROBLEM:

X _____ Debris Blocking Inlet

_____ Excessive Debris in Structure

_____ Cleaning Pipe

_____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN:

clean basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

REPORTED PROBLEM

X
ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: 2 by LV

PROBLEM:

X Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION TAKEN:

Clear Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Sunset Ln

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION
TAKEN:

clean basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

REPORTED PROBLEM

X _____
ROUTINE MAINTENANCE

(INLET)

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Hakes Hollow Rd

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

**ACTION
TAKEN:**

Clean catch basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 3-10-16

REPORTED PROBLEM

X _____
ROUTINE MAINTENANCE

INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Pleasant Hill Rd

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION
TAKEN:

Clear Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

X _____
ROUTINE MAINTENANCE

(INLET) MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Riverview Dr

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN: Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

(JEFF)

(CASEY)

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

X _____
ROUTINE MAINTENANCE

(INLET) MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Pleasant Hill rd

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION TAKEN:

Clear Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-15

REPORTED PROBLEM

X _____
ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Sunset Ln

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN:

clean basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-15

REPORTED PROBLEM

X _____
ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Reby LN

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION TAKEN: Clean basin

EMPLOYEE(S): KIM JEFF CASEY
(Circle Name(s))
KYLE TODD OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

~~_____~~ ROUTINE MAINTENANCE

INLET **MANHOLE** **PIPE** **OTHER** (CIRCLE ONE)

LOCATION: Willow Creek Rd

PROBLEM:

~~_____~~ Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

**ACTION
TAKEN:**

Clean basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

X _____
ROUTINE MAINTENANCE

INLET

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Bank Hill Rd

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION
TAKEN:

Clean basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

(INLET)

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: winters

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

(KIM)

JEFF

CASEY

(KYLE)

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Abby

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Snyder Corner

PROBLEM:

Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

X ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Penny Ln

PROBLEM:

X Debris Blocking Inlet _____ Excessive Debris in Structure

Cleaning Pipe _____ Mowing Basin

Other (Describe) _____

ACTION TAKEN:

Clean

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

X ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Knights view

PROBLEM:

X Debris Blocking Inlet Excessive Debris in Structure

Cleaning Pipe Mowing Basin

Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

X _____
ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Keller

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

**ACTION
TAKEN:**

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

X ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Jamison

PROBLEM:

X Debris Blocking Inlet _____ Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Haugh

PROBLEM:

Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

X ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Fox Creek

PROBLEM:

X Debris Blocking Inlet Excessive Debris in Structure
_____ Cleaning Pipe _____ Mowing Basin
_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Elfrer

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Dallas Dr.

PROBLEM:

Debris Blocking Inlet _____ Excessive Debris in Structure

Cleaning Pipe _____ Mowing Basin

Other (Describe) _____

**ACTION
TAKEN:**

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

REPORTED PROBLEM

X ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Country Ln

PROBLEM:

X Debris Blocking Inlet _____ Excessive Debris in Structure

Cleaning Pipe _____ Mowing Basin

Other (Describe) _____

ACTION TAKEN: Clean Basin

EMPLOYEE(S): KIM JEFF CASEY
(Circle Name(s))
KYLE TODD OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

(INLET)

MANHOLE

PIPE

OTHER

(CIRCLE ONE)

LOCATION: Barshings

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

_____ Other (Describe) _____

ACTION
TAKEN:

Clean Basin

EMPLOYEE(S):
(Circle Name(s))

(KIM)

JEFF

CASEY

(KYLE)

TODD

OTHER _____

**LOWER WINDSOR TOWNSHIP
Storm Sewer Maintenance Report**

DATE: 2-11-16

_____ REPORTED PROBLEM

X _____ ROUTINE MAINTENANCE

INLET MANHOLE PIPE OTHER (CIRCLE ONE)

LOCATION: Apple tree

PROBLEM:

X _____ Debris Blocking Inlet _____ Excessive Debris in Structure

_____ Cleaning Pipe _____ Mowing Basin

X _____ Other (Describe) _____

ACTION TAKEN:

EMPLOYEE(S):
(Circle Name(s))

KIM

JEFF

CASEY

KYLE

TODD

OTHER _____

DATE	TRAINING/PRESENTATIONS AND MS4 RELATED ITEMS	EMPLOYEE(S) ATTENDING
4/20/15	Long-Term Road Maintenance Planning and Stormwater Inventory (PSATS Convention)	Manager
4/23/15	York County Municipal Administrators Association (YCMAA) discussed MS4/stormwater	Manager
4/29/15	Chesapeake Bay Pollutant Reduction Plan (CBPRP) Committee Meeting, YCDES	Manager and ZO
4/30/15	Public Open House for Highway Building Provided Tours and information about facility	Entire staff
5/9/15	Electronic Recycling & Brush Drop off for residents	Highway Staff and Admin Asst
5/28/15	YCMAA discussed MS4 audits and phosphorus and nitrogen credits	Manager
6/3/15	Multi-municipal Fishing Creek team project meeting, Windsor Boro	Manager
6/13/15	Electronic Recycling & Brush Drop off for residents	Highway Staff and Admin Asst
6/18/15	YCMAA discussed MS4 audit for West Manchester	Manager
6/29/15	York County Stormwater Consortium Forms Workshop, YCDES	ZO
6/30/15	Team Meeting and luncheon for shareholders regarding Fishing Creek Project, Windsor Boro	Manager
7/9/15	Meeting with Hellam Township and Wrightsville Boro regarding multi-municipal stormwater workshop for all of our residents (scheduled for 9/15/15)	Manager
7/11/15	Electronic Recycling & Brush Drop off for residents	Highway Staff and Admin Asst
7/15/15	Contact organizations for MS4 workshop in Sept	Manager
7/15 to 8/4	Prepare flier, prepare listing of vendors, write article for newsletter for 9/15 stormwater fair	Manager
8/8/15	Electronic Recycling & Brush Drop off for residents	Highway Staff and Admin Asst
8/11/15	FEMA workshop and YCPC presentation on MS4 and floodplain management	Manager and ZO
8/18/15	Floodplain Ordinance update phone conference walk through (Leslie Rhoads)	ZO
8/18/15	Meeting with Hellam Township, Wrightsville Borough and Lower Windsor Township regarding stormwater fair scheduled 9/15/15	Manager

8/28/15	Meeting with C.S. Davidson regarding the changes to the Lower Windsor Floodplain Ordinance	Manager, ZO
9/12/15	Electronic Recycling & Brush Drop off for residents	Highway Staff and Admin Asst
9/15/15	Multi-municipal Stormwater Fair – held in conjunction with Lower Windsor & Hellam Townships and Wrightsville Borough	Manager, ZO
9/24/15	YCMAA meeting – York County Stormwater Authority Feasibility Study: What Regional Strategies Make Sense Locally? Held with YCPC	Manager, ZO
10/10/15	Electronic Recycling & Brush Drop off for residents	Highway Staff and Admin Asst
10/19/15 to 10/24/15	Landfill Clean-Up Week for Residents	Provided by the Supervisors
10/23/15	York County Coalition for Clean Waters Top 5 Urban BMPs for Managing Nutrients in the Chesapeake Watershed	Manager, ZO
10/29/15	“Why Every Municipal Official Needs to be Concerned about Stormwater”	ZO
11/18/15	Chesapeake Bay Pollutant Reduction Plan (CBPRP) Committee Meeting, YCDES	Manager, ZO
11/18/15	DEP/EPA Audits: MS4 Made Simple 4 U – PSATS and PMGA webinar	Manager
12/10/15	YCMAA meeting – Discussion of Feasibility Study	Manager
1/28/16	YCMAA – Discussion of approval of Authority by the York County Commissioners; Discussion of Conservation District meeting with farmers for stormwater plans; Report of Windsor Twp being on suspension from FEMA	Manager
2/25/16	YCMAA – Discussion about the consortium working together with the YCPC regarding the Stormwater Authority	Manager
3/21/16	Floodplain Administrator Best Practices Guidance and Tools for Meeting Day to Day Challenges – class presented by FEMA & PA DCED	Manager, ZO