



September 27, 2022

NPDES Annual MS4 Status Report Reviewer
Bureau of Clean Water
Pennsylvania Department of Environmental Protection
2 East Main Street
Norristown, PA 19401
Submitted via DEP's OnBase Electronic Forms Upload Tool

RE: New Hanover Annual MS4 Status Report
NPDES Permit No. PAG130020
New Hanover Township, Montgomery County
412-22-0005

Dear Reviewer,

On behalf of New Hanover Township, Cedarville Engineering Group, LLC is pleased to provide the enclosed Annual MS4 Status Report and associated documentation for the NPDES MS4 General Permit (PAG130020) covering the period from July 1, 2021 to June 30, 2022.

We believe that the report adequately documents the Township's compliance with the permit and continuing effort to go above and beyond in improving their Stormwater Management Program.

Thank you in advance for your time. Please do not hesitate to contact me at 610-705-4500 or buhler@cedarvilleeng.com with any questions.

Best Regards,

Cedarville Engineering Group, LLC

A handwritten signature in cursive script that reads "Beth Uhler".

Beth Uhler
Environmental Project Manager

cc: Jamie Gwynn, New Hanover Township Manager
Bob Flinchbaugh, PE, Cedarville Engineering Group, LLC

Cedarville Engineering Group, LLC

159 E High St., Suite 500, Pottstown, PA 19464 | P: (610) 705-4500 CedarvilleEng.com





September 20, 2022

ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

Prepared For:

New Hanover Township
2943 N Charlotte St
Gilbertsville, PA 19525

Prepared By:



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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CedarvilleEng.com

*Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.*

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Report Components

1.0 Annual Municipal Separate Storm Sewer System (MS4) Status Report

APPENDICES

Appendix A MCM #1 – Public Education and Outreach Program (PEOP)

1. Educational Outreach Documentation

Appendix B MCM #2 – Public Involvement and Participation Program (PIPP)

1. Public Involvement Documentation

Appendix C MCM #3 – Illicit Discharge Detection and Elimination (IDDE)

1. Dry Weather Outfall Field Screenings

Appendix D MCM #5 – Post Construction Stormwater Management (PCSM)

1. PCSM BMP Inventory

Appendix E MCM #6 – Pollution Prevention/ Good Housekeeping (PP-GH)

1. Employee Training Documentation

Appendix F MS4 Infrastructure Map



ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

FOR THE PERIOD JULY 1, 2021 TO JUNE 30, 2022

GENERAL INFORMATION					
Permittee Name:	New Hanover Township	NPDES Permit No.:	PAG130020		
Mailing Address:	2943 N. Charlotte Street	Effective Date:	3/16/2018		
City, State, Zip:	Gilbertsville, PA 19525	Expiration Date:	3/15/2023		
MS4 Contact Person:	Jamie L. Gwynn	Renewal Due Date:	9/16/2022		
Title:	Township Manager	Municipality:	New Hanover Township		
Phone:	610-631-0450	County:	Montgomery		
Email:	jgwynn@newhanover-pa.org				
Co-Permittees (if applicable): n/a					
Appendix(ces) that permittee is subject to (select all that apply):					
<input type="checkbox"/> Appendix A <input type="checkbox"/> Appendix B <input checked="" type="checkbox"/> Appendix C <input type="checkbox"/> Appendix D <input type="checkbox"/> Appendix E <input type="checkbox"/> Appendix F					
WATER QUALITY INFORMATION					
Are there any discharges to waters within the Chesapeake Bay Watershed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Identify all surface waters that receive stormwater discharges from the permittee's MS4 and provide the requested information (see instructions).					
Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s)	TMDL?	WLA?
Swamp Creek (reach 02040203000487)	TSF	Yes	Municipal Point Source-Cause Unknown; Urban Runoff/Storm Sewer-Siltation	No	No
Swamp Creek (reach 02040203000488)	TSF	No		No	No
Minister Creek	TSF	No		No	No
Middle Creek	TSF	No		No	No
Scioto Creek	TSF	No		No	No
Unnamed Tributary (UNT) to Sanatoga Creek	WWF	No		No	No
UNTs to Minister Creek	TSF	No		No	No
UNTs to Swamp Creek (reach 02040203000488)	TSF	No		No	No

GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

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

List the current entity responsible for implementing each MCM of your SWMP, along with contact name and phone number.

MCM	Entity Responsible	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	New Hanover Township	Eileen Pogany	610-323-1008
#2 Public Involvement/Participation	New Hanover Township	Eileen Pogany	610-323-1008
#3 Illicit Discharge Detection and Elimination (IDD&E)	New Hanover Township	Jay Kowal	610-323-1008
#4 Construction Site Storm Water Runoff Control	New Hanover Township	Jamie Gwynn	610-323-1008
#5 Post-Construction Storm Water Management in New Development and Redevelopment	New Hanover Township	Jim Wozniak/ Jay Kowal	610-323-1008
#6 Pollution Prevention / Good Housekeeping	New Hanover Township	Jay Kowal	610-323-1008

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

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

1. For new permittees only, has the written PEOP been developed and implemented within the first year of permit coverage?

Yes No

2. Date of latest annual review of PEOP: March 2022 Were updates made? Yes No

3. What were the plans and goals for public education and outreach for the reporting period?

- Review the PEOP and update as necessary.
- Review the target audience list and update as necessary.
- Review the information and links on the stormwater page of the Township website and update as necessary.
- Display and distribute stormwater educational information at the Township Building and parks.
- Distribute stormwater information to new homeowners.
- Include MS4 educational materials on stormwater in bills and once a year on employee paychecks.
- Continue involvement with the Township Environmental Advisory Board (EAB).
- Educate PCSM BMP owners about stormwater and BMP maintenance to help ensure proper O&M by sending out a mailing and monitoring compliance of BMP inspections.
- Publish and distribute an interactive stormwater education Story Map specific to New Hanover Township's Stormwater Management Program.
- Publish at least one article relating to stormwater in the Township newsletter.

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

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

The Township plans to continue implementing the plans and goals outlined in #3 above.

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

1. For new permittees only, have the target audience lists been developed and implemented within the first year of permit coverage?

Yes No

2. Date of latest annual review of target audience lists: March 2022 Were updates made? Yes No

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

1. For new permittees only, were stormwater educational and informational items produced and published in print and/or on the Internet within the first year of permit coverage?

Yes No

2. Date of latest annual review of educational materials: March 2022 Were updates made? Yes No

3. Do you have a municipal website? Yes No (URL:
[https://newhanover-
pa.org/departments/planning/stormwater_management.php](https://newhanover-pa.org/departments/planning/stormwater_management.php))

2. If Yes, describe how you advertised the draft document(s) and how you provided opportunities for public review, input and feedback:

The stormwater ordinance was updated during the reporting period. The updates were discussed at multiple Planning Commission meetings and Board of Supervisors meetings. The updated ordinance is anticipated to be adopted by the Township at the Board of Supervisors meeting on October 6, 2022. A copy of the executed ordinance will be forwarded to PA DEP at that time.

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

Ordinance / SOP / Plan Name	Date of Public Notice	Date of Public Hearing	Date Enacted or Submitted to DEP
Stormwater Management Ordinance	TBD (September 2022)	October 6, 2022	TBD (October 6, 2022)

BMP #3: Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods.

1. At least one public meeting or other MS4 event must be held during the 5-year permit coverage period to solicit participation and feedback from target audience groups. Was this meeting or event held during the reporting period?
 Yes No If Yes, Date of Meeting or Event: The Township had a presentation on the NPDES MS4 Program during the 5-year permit period at a BOS meeting on October 3, 2019. The Township continues to have discussions and presentations on stormwater-related topics at numerous public meetings.

2. Report instances of cooperation and participation in MS4 activities; presentations the permittee made to local watershed and conservation organizations; and similar instances of participation or coordination with organizations in the community.
 - The Township posted an advertisement on the Facebook page for the Perkiomen Watershed Conservancy to spread awareness of the Perkiomen Watershed Stream Clean-up on April 2, 2022. (Appendix A)
 - The Township advertised the Montgomery County Campaign Sign collection November 3-8, 2021 which collects campaign yard signs after election season and responsibly disposes of them. (Appendix B)
 - The EAC discussed stormwater BMP inspections during the November 8, 2021 meeting. (Appendix B)
 - The EAC discussed next steps to address Hurricane Damage caused from massive volumes of stormwater runoff during the September 13, 2021 meeting.(Appendix B)

3. Report activities in which members of the public assisted or participated in the meetings and in the implementation of the SWMP, including education activities or efforts such as cleanups, monitoring, storm drain stenciling, or others.
 - Public comments were received at the April 11, 2022 EAC meeting regarding the implementation of a township wide recycling program.(Appendix B)

MCM #2 Comments:

The Township will be hosting a rain barrel workshop in partnership with Perkiomen Watershed Conservancy on July 28, 2022.
Refer to Appendices A and B for MCM #2 supporting documentation.

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

BMP #1: Develop and implement a written program for the detection, elimination, and prevention of illicit discharges into the regulated small MS4.

1. For new permittees only, was the written IDD&E program developed within one year of permit coverage?
 Yes No

2. Date of latest annual review of IDD&E program: March 2022 Were updates made? Yes No

BMP #2: Develop and maintain map(s) that show permittee and urbanized area boundaries, the location of all outfalls and, if applicable, observation points, and the locations and names of all surface waters that receive discharges from those outfalls. Outfalls and observation points shall be numbered on the map(s).

1. Have you completed a map(s) that includes all components of BMP #2? Yes No

If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.

If No, date by which permittee expects map(s) to be completed:

2. Date of last update or revision to map(s): August 31, 2022

3. Total No. of Outfalls in MS4: 189 Total No. of Outfalls Mapped: 189
4. Total No. of Observation Points: 88 Total No. of Observation Points Mapped: 88
5. During the reporting period, have you identified any existing outfalls that have not been previously reported to DEP in an NOI, application or annual report, or are any new MS4 outfalls proposed for the next reporting period?
- Yes No If Yes, select: Existing Outfall(s) Identified New Outfall(s) Proposed

BMP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), the permittee shall develop and maintain map(s) that show the entire storm sewer collection system within the permittee's jurisdiction that are owned or operated by the permittee (including roads, inlets, piping, swales, catch basins, channels, and any other components of the storm sewer collection system), including privately-owned components of the collection system where conveyances or BMPs on private property receive stormwater flows from upstream publicly-owned components.

1. Have you completed a map(s) that includes all components of BMP #3? Yes No

If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.

If No, date by which permittee expects map(s) to be completed:

2. If Yes to #1, is the map(s) on the same map(s) as for outfalls and receiving waters? Yes No

3. Date of last update or revision to map(s): August 31, 2022

BMP #4: Conduct dry weather screenings of MS4 outfalls to evaluate the presence of illicit discharges. If any illicit discharges are present, the permittee shall identify the source(s) and take appropriate actions to remove or correct any illicit discharges. The permittee shall also respond to reports received from the public or other agencies of suspected or confirmed illicit discharges associated with the storm sewer system, as well as take enforcement action as necessary. The permittee shall immediately report to DEP illicit discharges that would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property.

For new permittees, all identified outfalls (and if applicable observation points) must be screened during dry weather at least twice within the 5-year period following permit coverage. For existing permittees, all identified outfalls (and if applicable observation points) must be screen during dry weather at least once within the 5-year period following permit coverage and, for areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls must be screened annually during each year of permit coverage.

1. How many unique outfalls (and if applicable observation points) were screened during the reporting period? 8

2. Indicate the percentage of all outfalls screened in the past five years. 9%

3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: 22%

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 MS4 Outfall Field Screening Report form (3800-FM-BCW0521) provided in the permit?

Yes No

If No, attach a copy of your screening report form.

BMP #5: Enact a Stormwater Management Ordinance or SOP to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.

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: 3/27/2017

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) with respect to authorized non-stormwater discharges? Yes No

If Yes to #2 and the ordinance or SOP has not been submitted to DEP previously, attach the ordinance or SOP.

3. Were there any violations of the ordinance or SOP during the reporting period? Yes No

If Yes to #3, complete the table below (attach additional sheets as necessary).

Violation Date	Nature of Violation	Responsible Party	Enforcement Taken

4. Did you approve any waiver or variance during the reporting period that allowed an exception to non-stormwater discharge provisions of an ordinance or SOP? Yes No

If Yes to #4, identify the entity that received the waiver or variance and the type of non-stormwater discharge approved.

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.

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? The Township had posters/pamphlets related to IDD&E available to the public in their municipal building, on the website, and in Township newsletters as described above in MCM #1.

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 #3 Comments:

The Township maintains a map with all stormwater infrastructure, outfalls, and BMPs by maintaining an interactive ArcGIS Online (AGOL) web map app, in addition to the pdf map attached to this report. Updates made during the reporting period included the changing the status of 176 stormwater BMPs from pending inspection to active, so the BMPs are now displayed on the Township mapping. The web map app is publicly accessible via the stormwater page on the Township website at the link below:

<https://nhttpa.maps.arcgis.com/apps/webappviewer/index.html?id=a094bc9a144745e3911ef1c65a279145>

The Township conducted dry weather outfall field screening of the 8 outfalls that drain previously identified priority areas on June 28, 2022. The completed screening forms are located in Appendix C. The Township will begin to complete dry weather outfall field screening for the remainder of the outfalls next reporting period.

Refer to Appendix F for the MS4 Infrastructure Map.

MCM #4 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

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

Yes No

(If Yes, respond to questions for BMP Nos. 1, 2 and 3 only in this section. If No, respond to questions for all BMPs in this section)

BMP #1: The permittee may not issue a building or other permit or final approval to those proposing or conducting earth disturbance activities requiring an NPDES permit unless the party proposing the earth disturbance has valid NPDES Permit coverage (i.e., not expired) under 25 Pa. Code Chapter 102.

During the reporting period, did you comply with 25 Pa. Code § 102.43 (relating to withholding building or other permits or approvals until DEP or a county conservation district (CCD) has approved NPDES permit coverage)?

Yes No Not Applicable (no building permit applications received)

BMP #2: A municipality or county which issues building or other permits shall notify DEP or the applicable CCD within 5 days of the receipt of an application for a permit involving an earth disturbance activity consisting of one acre or more, in accordance with 25 Pa. Code § 102.42.

During the reporting period, did you comply with 25 Pa. Code § 102.42 (relating to notifying DEP/CCD within 5 days of receiving an application involving an earth disturbance activity of one acre or more)?

Yes No Not Applicable (no building permit applications received)

BMP #3: Enact, implement and enforce an ordinance or SOP to require the implementation and maintenance of E&S control BMPs, including sanctions for non-compliance, as applicable.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of E&S control BMPs? Yes No

If Yes, indicate the date of the ordinance or SOP: 3/27/2017

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #4: Review Erosion and Sediment (E&S) control plans to ensure that such plans adequately consider water quality impacts and meet regulatory requirements.

Specify the number of E&S Plans you reviewed during the reporting period:

BMP #5: Conduct inspections regarding installation and maintenance of E&S control measures during earth disturbance activities. Maintain records of site inspections, including dates and inspection results, in accordance with the record retention requirements in this permit.

Specify the number of E&S inspections you completed during the reporting period:

BMP #6: Conduct enforcement when installation and maintenance of E&S control measures during earth disturbance activities does not comply with permit and/or regulatory requirements.

Specify the number of enforcement actions you took during the reporting period for improper E&S:

BMP #7: Develop and implement requirements for construction site operators to control waste at construction sites that may cause adverse impacts to water quality. The permittee shall provide education on these requirements to construction site operators.

Specify the method(s) by which you are educating construction site operators on controlling waste at construction sites:

BMP #8: 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.

1. A tracking system has been established for receipt of public inquiries and complaints. Yes No

2. Specify the number of inquiries and complaints received during the reporting period:

MCM #4 Comments:

The Township does rely on PA's statewide program for stormwater associated with construction activities to satisfy this MCM. However, the Township still does complete erosion & sediment control inspections and enforcement.

BMP #3- The Township is in the final stages of updating their stormwater ordinance and anticipates adoption at a Board of Super

BMPs #4 & #6- The Township has a fully implemented E&S Control Inspection Program involving conducting weekly inspections at each active construction site. If a violation is not addressed after the 4th inspection, enforcement measures are taken. This reporting period, the Township conducted E&S inspections for the following active construction sites:

Hanover Pointe

Montgomery View

Rolling Meadows

Woodfield

Aqua PA Standpipe

Total E&S Inspections: 108

E&S Control Inspection reports are available by request.

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

BMP #1: Enact, implement and enforce an ordinance or SOP to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of post-construction stormwater management (PCSM) BMPs? Yes No
If Yes, indicate the date of the ordinance or SOP: 3/27/2017
2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No
3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #2: Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment. Measures should also be included to encourage retrofitting LID into existing development. Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that encourages and expands the use of LID in new development and redevelopment? Yes No
If Yes, indicate the date of the ordinance or SOP: 3/27/2017
2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No
3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #3: Ensure adequate O&M of all post-construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

1. Do you have an inventory of all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003? Yes No
If Yes to #1, complete Table 1 on the next page.
2. Has proper O&M occurred during the reporting period for all PCSM BMPs? Yes No
3. If No to #2, explain what action(s) the permittee has taken or plans to take to ensure proper O&M.

If you are relying on PA's statewide program for stormwater associated with construction activities, you may skip to MCM #6, otherwise complete all questions for BMPs #4 - #6 in this section.

BMP #4: 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.

1. Specify the number of PCSM Plans reviewed during the reporting period for projects disturbing greater than or equal to one acre (including projects less than one acre that are part of a larger common plan of development or sale):
2. Has a tracking system been established and maintained to record qualifying projects and their associated BMPs?
 Yes No

PCSM BMP INVENTORY

Table 1. To complete the information needed for MCM #5, BMP #3, list all existing structural BMPs that discharge stormwater to the permittee's MS4 that were installed to satisfy PCSM requirements for earth disturbance activities under Chapter 102, and provide the requested information (see instructions).

BMP No.	BMP Name	DA (ac)	Entity Responsible for O&M	Latitude	Longitude	Date Installed	O&M Requirements	NPDES Permit No.
1	Refer to Appendix D			o ' "	o ' "			
2				o ' "	o ' "			
3				o ' "	o ' "			
4				o ' "	o ' "			
5				o ' "	o ' "			
6				o ' "	o ' "			
7				o ' "	o ' "			
8				o ' "	o ' "			
9				o ' "	o ' "			
10				o ' "	o ' "			
11				o ' "	o ' "			
12				o ' "	o ' "			
13				o ' "	o ' "			
14				o ' "	o ' "			
15				o ' "	o ' "			
16				o ' "	o ' "			

BMP #5: Ensure that controls are installed that shall prevent or minimize water quality impacts. The permittee shall inspect all qualifying development or redevelopment projects 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).

1. During the reporting period have you inspected all qualifying development and redevelopment projects during the construction phase to ensure proper installation of approved structural BMPs?
 Yes No Not Applicable (no qualifying projects during reporting period)
2. Has a tracking system been established and maintained to record results of inspections?
 Yes No

BMP #6: Develop a written procedure that describes how the permittee shall address all required components of this MCM.

Have you developed a written plan that addresses: 1) minimum requirements for use of structural and/or non-structural BMPs in plans for development and redevelopment; 2) criteria for selecting and standards for sizing stormwater BMPs; and 3) implementation of an inspection program to ensure that BMPs are properly installed? Yes No

MCM #5 Comments:

The Township reviewed and updated the Stormwater BMP Inspection Program during this reporting period (dated August 4, 2022). The Township will continue to maintain and updated both the PCSM BMP Inventory and the inventory of BMPs that are less than one acre (LT1A) installed to meet Township stormwater ordinance requirements.

MCM #6 – POLLUTION PREVENTION / GOOD HOUSEKEEPING

BMP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for generating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the permittee.

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? August 2022
3. When was it last updated? September 2022

BMP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the discharge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or conveyance systems within the regulated MS4.

1. Have you developed a written O&M program for the operations identified in BMP #1? Yes No
2. Date of last review or update to written O&M program: April 2021

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 operations to the regulated small MS4. All relevant employees and contractors shall receive training.

1. Have you developed an employee training program? Yes No
2. Date of last review or update to training program: Updated August 2022 Date of latest training: June 21, 2022

3. Training topics covered:

NPDES MS4 Program Overview
MCM #3- Illicit Discharge Detection and Elimination
MCM #6- Pollution Prevention/Good Housekeeping

4. Name(s) of training presenter(s):

Beth Uhler
Amanda Reitbauer

5. Names of training attendees:

Refer to sign-in sheet in Appendix E.

MCM #6 Comments:

The Employee Training Program and O&M Program including the inventory of facilities and operations were reviewed and updated during this reporting period (dated August 4, 2022 and September 14, 2022, respectively). These written programs along with the employee training documentation are included in Appendix E.

POLLUTANT CONTROL MEASURES (PCMs)

Indicate the status of implementing PCMs in Appendices A, B and/or C by completing the table below. Skip this section if PCMs are not applicable.

Task	Date Completed	Attached	Anticipated Completion Date
Storm Sewershed Map(s)	9/30/2019	<input type="checkbox"/>	
Source Inventory	8/19/2020	<input type="checkbox"/>	
Investigation of Suspected Sources	n/a	<input type="checkbox"/>	n/a
Ordinance/SOP for Controlling Animal Wastes	n/a	<input type="checkbox"/>	n/a

PCM Comments:

The Township is required to implement Pollutant Control Measures for Priority Organic Compounds (Appendix C) for discharges to the Schuylkill River which is impaired by polychlorinated biphenyls (PCBs). Because no suspected sources of PCBs were identified in the Source Inventory, an investigation of suspected sources is not applicable.

In addition, the Ordinance/SOP for Controlling Animal Wastes is only applicable for Appendix B. New Hanover does not have this requirement.

POLLUTANT REDUCTION PLANS (PRPs) AND TMDL PLANS

1. Complete this section if the development and submission of a PRP and/or TMDL Plan was required as an attachment to the latest NOI or application or was required by the permit, regardless of whether DEP has approved the plan(s).

Type of Plan	Submission Date	DEP Approval Date	Surface Waters Addressed by Plan
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			Chesapeake Bay

<input checked="" type="checkbox"/> Impaired Waters PRP (Appendix E)	Revised October 2018	January 11, 2019	Swamp Creek
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP			Chesapeake Bay,
<input type="checkbox"/> Combined PRP / TMDL Plan			

Joint Plan (if checked, list the name of the MS4 group or names of all entities participating in the joint plan below)
Joint Plan Participants:

2. Identify the pollutants of concern and pollutant load reduction requirements under the permit (see instructions).

Type of Plan	TSS Load Reduction (lbs/yr)	TP Load Reduction (lbs/yr)	TN Load Reduction (lbs/yr)
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			
<input checked="" type="checkbox"/> Impaired Waters PRP (Appendix E)	3,644.75		
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP			
<input type="checkbox"/> Combined PRP / TMDL Plan			

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: January 31, 2024

4. Have any modifications to the plan(s) occurred since DEP approval? Yes No

If Yes to #4, was the updated plan(s) submitted to DEP? Yes No

If Yes to #4, did you comply with the public participation requirements of the applicable appendix? Yes No

If Yes to #4, describe the plan modifications.

5. Summary of progress achieved during reporting period.

The Township completed the design of the Swamp Creek Stream Restoration project and submitted a Joint Permit Application (JPA) package to PA DEP and Montgomery County Conservation District (MCCD) for review in February 2022. MCCD issued an adequacy letter for the project on July 6, 2022. The PA DEP review is still pending. In addition, the Township submitted a Watershed Restoration Protection Program (WRPP) grant application on May 26, 2022 to procure funding for construction of this project.

6. Anticipated activities for next reporting period.

The Township anticipates constructing the Swamp Creek Stream Restoration project during the next reporting period. This project would fulfill the Township's TSS pollutant load requirement for this permit term.

PRP/TMDL Plan Comments:

The Township continues to work towards achieving the required pollutant reduction for Swamp Creek

NEW BMPs FOR PRP/TMDL PLAN IMPLEMENTATION

Table 2. List all new structural BMPs installed and ongoing non-structural BMPs implemented during the reporting period that are being used toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed or Implemented	Planning Area?	Ch. 102?	Annual Sediment Load Reduction (lbs/yr)
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	

BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION

Table 3. List all existing structural BMPs that have been installed in prior reporting periods and are eligible to use toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed	Annual Sediment Load Reduction (lbs/yr)	Date of Latest Inspection	Satisfactory?
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>

CERTIFICATION

For PAG-13 Permittees: I have read the latest PAG-13 General Permit issued by DEP and agree and certify that (1) the permittee continues to be eligible for coverage under the PAG-13 General Permit and (2) the permittee will continue to comply with the conditions of that permit, including any modifications thereto. I understand that if I do not agree to the terms and conditions of the PAG-13 General Permit, I will apply for an individual permit within 90 days of publication of the General Permit. I also acknowledge that any facility construction needed to comply with the General Permit requirements shall be designed, built, operated, and maintained in accordance with operative laws and regulations.

For All Permittees: I certify under penalty of law that this report was 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 knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Jamie L. Gwynn

Name of Responsible Official

610-323-1008

Telephone No.

Jamie L. Gwynn

Signature

09-26-2022

Date



Annual MS4 Status Report

APPENDIX A

MCM #1 Public Education and Outreach



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com

When It Rains, It Drains

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





NEW HANOVER RAIN BARREL WORKSHOP

New Hanover Community Park Pavilion

2766 Gall Dr, Gilbertsville

Thursday, July 28th - 6:30 pm - 7:30 pm

WHAT IS A RAIN BARREL?

A container that collects and stores rain water from your downspout to be used for watering plants, cleaning yard equipment or topping off a swimming pool.

ABOUT THE WORKSHOP

- All of the necessary tools for building a rain barrel will be provided.
- Participants will be guided through the steps to put your rain barrel together.
- You will leave with a completed rain barrel that is ready to be installed on your property.
- The provided barrel is a 55 gal drum, so make sure it will fit into your vehicle after the workshop!



TO LEARN MORE & SIGN-UP, CLICK
ON THIS LINK BELOW:

<https://www.classy.org/event/new-hanover-rain-barrel-workshop/e406933>



February 15 · 🌐

Hickory Park and Swamp Creek Park are included in the opportunities!

<https://www.google.com/maps/d/u/1/viewer...>



Volunteers
Needed!

PERKIOMEN WATERSHED STREAM CLEAN-UP

SATURDAY, APRIL 2, 2022

CLEAN-UP SITES LOCATED THROUGHOUT THE WATERSHED



Every spring, the Conservancy hosts a watershed wide clean-up event focused on removing trash, tires and other debris from regional waterways.

Looking to make a positive difference in the health of our streams and creeks? Join us as we work to beautify and protect our watershed.

Visit our website to learn more and sign-up:
www.perkiomenwatershed.org/stream-clean-up/

👍❤️ 10

5 Shares

👍 Like

💬 Comment

➦ Share



Write a comment...





New Hanover Township

September 20, 2021 · 🌐



1) Dispose of leaf litter and yard waste in a compost pile, never in the street or stream! You can shred yard waste to use as mulch or fertilizer for your yard and garden. Or, check with your municipality for yard waste collection opportunities.

2) Apply herbicides and fertilizers sparingly and never before it rains. Try spot treating for weeds or, better yet, pull them by hand! If you have to use herbicides or fertilizers on your lawn, make sure to always follow the instructions and sweep up anything that falls on hard surfaces.

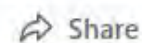
3) Add native plants to your yard. Now through Thanksgiving can be the best time to put native plants in the ground. Many plants go dormant in the fall and winter and will not require much maintenance to survive until spring. Native plants aid in the infiltration of stormwater and provide important food and habitat for wildlife.

**Check out our website to learn more:
www.perkiomenwatershed.org**



2

3 Shares



RICH
HERITAGE & CHARM

NEW HANOVER TOWNSHIP



ESTABLISHED 1741

Dear Residents,

Welcome to the Fall/Winter edition of the New Hanover Township newsletter. This edition contains much information about our staff, our office hours, holiday closings, projects, and happenings in the Township as well as updated information provided by individual departments within the Township.

We have all struggled with the COVID-19 pandemic this year. During the pandemic, the Township took a proactive approach following the steps as directed by the CDC in order to continue providing services to the public, public meetings were open to all via zoom and Facebook. We are grateful to all who put themselves in harm's way to continue to provide care for those sickened with the COVID-19 disease and also for those who continued to provide services and products to the public.

There are various bridge projects scheduled for this Fall and we ask that everyone remain patient navigating the detours which are necessary to allow for the construction to be carried out. Planning is underway for renovation projects taking place at the 2943 N. Charlotte Street building and also at the 2373 Hoffmansville Road facility. Renovations to the municipal building will provide employees ample space to carry out their daily functions as well as providing ample space to accommodate residents attending meetings; ample storage areas will be provided where documents and records can be filed in an organized manner. The former recreation building at 2373 Hoffmansville Road will be renovated for the Police Department. Services to the public will continue during these renovation projects, please extend courtesies to the employees as they continue to serve you during the renovations.

The production of this newsletter has been funded by area businesses through advertisements. Please consider patronizing the businesses who have helped to make the publication of the newsletter possible.

Feel free to contact the Township office at any time, our friendly staff will be happy to assist you.

Sincerely,

Kurt Zebrowski, Chairman Board of Supervisors

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Name: Makayla Lewis Grade: 3

Complete FAMILY
come to get new cooler glasses
EYE CARE
I want those.
610-323-4443
1806 Swamp Pike # 400, Gilbertsville PA 19525



- Automotive
- Marine
- Lawn / Garden
- Motorcycle
- ATV Battery
- Licensed Recycling Center
- Medical / Wheelchair

1742 Swamp Pike, Gilbertsville, PA 19525
610-323-3296

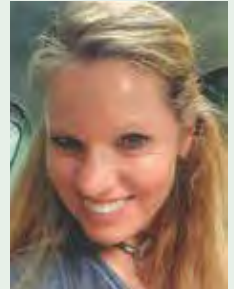
Hours: Mon - Thur 6:30am-4:30pm • Fri 6:30am-4:00pm • Sat 8:00am-12:00pm



Kathy Landis, Realtor

Office: (610) 369-3600
Cell: (610) 226-7087

klandis@gokellyrealestate.com
www.gokellyrealestate.com



Proud to Serve New Hanover Township



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Thank you

THANK YOU TO
THE BUSINESSES

This publication is made available through the generous advertising sponsorship of the businesses listed throughout our newsletter. We wish to encourage your patronage of these establishments; they play a substantial role in the economic vitality of our community.

MERKELS SHOES, INC.
1070 E. PHILADELPHIA AVE
GILBERTSVILLE PA 19525



MONDAY - THURSDAY
10AM - 8PM

FRIDAY & SATURDAY
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SUNDAY
11AM TO 5PM

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POTTSTOWN (610) 327-1120
BETHLEHEM (610) 868-2010
KUTZTOWN (610) 683-7391



NEW HANOVER TOWNSHIP

New Hanover Township, Montgomery County
2943 North Charlotte Street, Gilbertsville, Pennsylvania 19525
Phone 610-323-1008 • Fax 610-323-5173 • Website: www.newhanover-pa.org

OFFICE HOURS

Monday through Friday - 8:30 a.m. to 4:30 p.m.

ADMINISTRATIVE OFFICES CLOSED

- Independence Day – Monday, July 5
- Labor Day - Monday, September 6
- Veterans Day – Thursday, November 11
- Thanksgiving Day – Thursday, November 25
- Day After Thanksgiving, Friday, November 26
- Christmas Eve – Friday December 24
- Christmas Day – Monday, December 27
- New Year’s Eve – ½ day, Friday, December 31

BOARD OF SUPERVISORS

- Kurt Zebrowski, Chairman
- D. W. Boone Flint, Member
- Marie Livelsberger, Member
- W. Ross Snook, Member
- Gregory Maskrey, Member

MEETING SCHEDULE

Board of Supervisors	First Thursday and Fourth Monday (as needed) of each month at 6:30PM
Planning Commission	Second Wednesday of each month at 6:30PM
Sewer Authority	Third Wednesday of each month at 6:30PM
Recreation Committee	First Wednesday of each month at 6:30PM
Environmental Advisory Board	Second Monday each month at 6:30PM

All meetings are held at the Municipal Building, 2943 N. Charlotte Street, Gilbertsville, PA.

STAFF DIRECTORY

Township Manager	Jamie Gwynn	610-323-1008 x 106	jgwynn@newhanover-pa.org
Administrative Assistant	Eileen Pogany	610-323-1008 x 101	epogany@newhanover-pa.org
Administrative Assistant	Shelly Sallade	610-323-1008 x 104	ssallade@newhanover-pa.org
Chief of Police	Kevin McKeon	610-323-1008 x 208	kmckeon@newhanoverpolice.org
Public Works Director	Jay Kowal	610-323-1008 x 301	jkowal@newhanover-pa.org
Authority Superintendent	Brian Staehle	610-323-1008 x 407	bstahle@newhanover-pa.org
Finance Director	Michele Smith	610-323-1008 x 105	msmith@newhanover-pa.org
Code Enforcement/Zoning Director	James Wozniak	610-323-1008 x 103	jwozniak@newhanover-pa.org

Molly Bauer is the elected Tax Collector for New Hanover Township. She is responsible for collecting Real Estate taxes for Montgomery County, Boyertown Area School District and New Hanover Township as well as collecting Per Capita taxes for the Township and the School District. Ms. Bauer has earned a Qualified Tax Collector status with the DCED and is a Certified Tax Collector with the Pennsylvania State Tax Collectors' Association as well as is a member of the State and Montgomery County Tax Collector Associations. All payments can be mailed to P.O. Box 249, Gilbertsville Pa 19525.

In person tax collection hours for year 2021 are held at the Township Building as follows:

9-11 am 7/10, 7/24, 8/7, 8/21, 8/28, 10/16

6-8 pm 7/15, 7/29, 8/12, 8/19, 8/24, 8/26, 8/31, 12/29

Ms. Bauer can be reached at 484-644-3123. Please see bill for details regarding due dates and payment options. You can expect County/Township Real Estate bills in the mail during the first week of March and School Real Estate and Per Capita bills during the first week of July.

BUDGET SEASON!

The annual budget season typically begins 6-8 months into the Fiscal Year. The budget process takes about six months from initial planning to final approval. Each department of the township has a line-item budget that tracks every dollar spent for personnel, operating and equipment costs. Meetings are held with the Department Directors, the Township Manager, and the Finance Director to go over their budget requests. The Township Manager drafts a proposed budget which then goes to the Board of Supervisors for approval. This process can take up to 6 months.

The Board of Supervisors review the budget in detail (during work sessions) and then hosts a public meeting for public input and review. After the meeting, the Board of Supervisors will adopt the budget. The budget must be adopted before Dec. 31st.

AMERICAN RESCUE PLAN

On March 11, President Biden signed a \$1.9 trillion federal coronavirus relief package, the American Rescue Plan Act of 2021, into law. The package will provide \$360 billion for state and local governments, with \$13.722 billion coming to PA. New Hanover Township is projected to receive \$1,306,244 in funding. 50% of the funds will be distributed in June of 2021 and the remaining 50% in June of 2022. The township will have from June 2021 until December 31, 2024, to spend the funds. The township may use the funds for expenses in the following four categories:



1. Responding to the COVID-19 emergency or addressing its negative economic impacts.
2. Providing premium pay to eligible workers performing essential work or grants eligible to employers that have eligible workers.
3. Lost revenue replacement for the provisions of government services due to the COVID-19 emergency.
4. Make necessary investments in water, sewer, and broadband infrastructure.

BUILDING RENOVATIONS

The Board of Supervisors have approved building renovations to both the N. Charlotte Street administration building and the Recreation Center located at 2373 Hoffmansville Road, Frederick, PA. The Recreation Center will become the new home of the New Hanover Township Police Department. The renovations are estimated to be \$5,811,400 for the renovation of both buildings.

POLICE DEPARTMENT



EMERGENCY 911 • NON-EMERGENCY NUMBER 610-323-1008 (PRESS #2)

The New Hanover Township Police Department is proud to announce the promotions of two of its officers. On May 6th, 2021, at the Board of Supervisors monthly meeting, former Patrolman Michael Salvo was promoted to the rank of Corporal, and former Corporal Dekkar Dyas was promoted to the rank of Sergeant. We congratulate both officers, and we wish them well as they carry out their newly assigned duties.

The holiday season is approaching, and the department is looking forward to a safe and joyous time of year. We strongly urge residents and guests to celebrate their festivities in a responsible manner. For those who are of legal age to consume alcoholic beverages, please refrain from operating a vehicle. The New Hanover Township Police Department would also like residents to be mindful of fireworks laws and regulations. If you are unsure of the current regulations involving the use of fireworks, please contact the department and our officers will be happy to assist you.

NEW HANOVER TOWNSHIP AUTHORITY

2990 FAGLEYSVILLE ROAD, GILBERTSVILLE, PA 19525

Inflow and Infiltration (I & I) happens when storm water enters the sewer systems. Inflow is stormwater that enters the sewer system through basement sump pumps, floor and foundation drains, or roof gutter connections that are illegally connected to the sewer. Infiltration occurs when groundwater seeps into sewer pipes through cracks, leaky pipe joints or deteriorated manholes. When storm water enters the sewer systems not only does it increase the cost of operating the sewer plant, but it could overload the system which could mean costly infrastructure improvements and upgrades.

The Authority is taking steps to reduce I & I in the collection system by:

- Walking and doing visual inspections of manholes along the Authority's right of ways and low-lying areas
- Placing flow loggers in various manhole locations in our collection system to collect data on flow spikes which indicates storm water entry or illegal sump pump discharge into the collection system
- Performing slip lining repairs on sewer mains that are failing
- Televising of mains that indicate high flow issues during storm events
- Perform manhole repairs due to age and deterioration of critical infrastructure
- Said findings and repairs are being documented and the information is being added to the Township's GIS System.

Sewer customers can also help reduce I & I by detaching all connections that discharge storm water into the sanitary sewer system such as sump pumps, floor drains, etc. Thank you for your cooperation with the efforts to reduce I & I as this will help keep the wastewater treatment plant operating in the most cost-efficient way.

COMPREHENSIVE PLAN – 2040 – GREAT NEWS!

We are happy to report that review of the Township's Comprehensive Plan, previously adopted in 1998, has been completed and was adopted by the Board of Supervisors on April 1, 2021. This long range plan will serve as a guide and planning tool for the Township in the years to come and will guide the Township in its attempt to provide a safe, high quality life and to meet the needs and wants of its residents. The Township received input from the Montgomery County Planning Commission, the Township Planning Commission and the community and includes specific goals with strategies and implementation steps to achieve the goals. As the document is implemented, changes may be necessary which require changes to zoning and adoption of new ordinances. The document is a living document and the Township values citizen input since amendments can be added if warranted. We encourage and welcome you to attend all Township meetings where a period of time is designated for questions, comments, and/or concerns of the public.



CODE ENFORCEMENT/ZONING

The Code Enforcement/Zoning Office has two full time staff, the Director, and the Administrative Assistant/ Building Code Official. New Hanover Township enforces the PA Uniform Construction Code and Township adopted ordinances.

Should you live in a community with a Homeowner's Association (HOA), please be aware that the covenants, conditions, and restrictions of an HOA may impose a more restricted use than is permitted under applicable Township ordinances. Please contact your Homeowners Association for approval of your proposed improvements to ensure there is no violation of any provision of your community's Declaration and other regulations enforced by the HOA. Please submit the HOA note that is on our website, www.newhanover-pa.org, with your building and zoning applications. Failure to follow the correct process may result in forced reversal of the renovation or improvement at your expense.

Stormwater is presenting a challenge to our Township. To address this, building projects with impervious coverage are reviewed for compliance with the stormwater management ordinance. If determined to need a storm water management system, a plan, along with an escrow, is then reviewed by the Township Engineer. If approved, the system must be installed, inspected, and given final approval by the engineer. An agreement is executed between the landowner and the Township and then recorded with the County. Expenses for the engineer's review, and any necessary solicitor reviews, are paid with the monies deposited in escrow. Following recording, remaining monies in escrow are returned to the property owner.

Please refer to the Township's website for a listing of residential projects which do and do not need permits. The goal of the Code Enforcement/Zoning Office is to protect public health, safety and general welfare as related to the construction and occupancy of buildings and structures. Our office has seen an increase in deck applications this year. Decks appear simple to build, but they must be able to resist lateral and uplift load. Most deck collapses result from the separation of the house and deck ledger board, allowing the deck to swing away from the house. Rail failures occur much more frequently than total deck collapse but are less dramatic and rarely reported. This is the reason for the detail required in our applications.

Failure to obtain the required permits and inspections could result in serious ramifications and costly penalties. Violations are often discovered during fire and emergency investigations or when a property is offered for sale and County tax records and Township files cannot validate the improvements. Additional permits will not be processed for a property with outstanding prior violations until the violations are abated.

All permit forms can be found on the Township's website and can be submitted via email or in-person at the township office. If you have any questions about permit requirements, please contact the Zoning Office at 610-323-1008, Extension 102 before starting any work.



BRIDGE RECONSTRUCTION PROJECTS

Bridges in the Township are subject to wear and tear not only from car and truck traffic, they are also subject to damages from storms, high water, and debris being carried by stormwater. The bridge on New Hanover Square Road is being replaced by PennDOT after it was declared unsafe following a storm and is scheduled to be completed by March 2022. Other bridges owned by Montgomery County and PennDOT scheduled for improvements/reconstruction include the Swamp Pike bridge near New Hanover Square Road beginning August 2021 and ending November/December 2021 and the Lutheran Road bridge. The PennDOT -663 Culver project will begin August 2021 and be completed by the end of year 2022; a two-month detour beginning in March of 2022 is anticipated. The County bridge at Swamp Pike by Our Place restaurant is scheduled to begin 4th quarter 2022. The bridge at Lutheran Road near Swamp Pike will be replaced but there are no details at this time. Following the UGI installation of gas lines on Swamp Pike, the County will mill and resurface Swamp Pike. Detour routes will be established as needed during the construction projects, and in these instances, we ask that you allow yourself additional travel time and be considerate of the workers.

PUBLIC WORKS DEPARTMENT

Leaf Season:

- Leaves are recyclable and can be composted on your property or drop them off to Hetrick Gardens @ 2620 Swamp Pike, Gilbertsville Pa, no charge for New Hanover Township Residents.

Stormwater:

- All storm drains are checked and monitored before and during storms.
- Never dump anything into storm drains and never mow grass into the streets as it will clog drains and fill road drainage swales.

Snow Removal Tips:

- Use off street parking when snow is predicted, when you park in the driveway there's less snow to shovel
- Do not park over storm drains so crew can clear snow and ice to avoid flooding from melting runoff.
- Do not shovel or snow-blow snow back into the street after it has been plowed.
- Think Safety: never approach moving snow equipment, just because you can see the driver, does not mean he can see you.
- If there's a fire hydrant near your home, please adopt it and keep it clear in case of an emergency.



New Hanover Township Public Works Department maintains over 80 miles of roadway in the township

State Roads in the Township:

- North Charlotte St, Big Road "Route 73", Layfield Road "Route 663"

Montgomery County Roads in the Township:

- Swamp Pike, Deep Creek from Kulp Road to the township line at Fisher Road, Kulp Road from Deep Creek to Hill Road, Henning Road from Deep Creek to Snyder Road, and Snyder Road.

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- Guidance through each step of the home-sale process
- Results-driven marketing strategies to sell your home
- Negotiating experience with proven results!

610-225-7400 (Office) • 610-636-1287 (Call/Text)
mkrf@LNF.com

PARKS AND RECREATION DEPARTMENT

Parks and Recreation Department ensures that residents can take part in leisure, entertainment and recreational activities. The Recreation Committee with the assistance of the Township staff, is responsible for planning and implementing events and programs while the Township's Public Works Department oversees park maintenance.



FALL FROLIC

September 18, 2021 Noon to 5 PM (rain date of September 19)

New Hanover Township is pleased to announce the annual fall frolic is returning to Hickory Park this year. The Recreation Committee is working hard on making this event a great day for families and friends to enjoy the park and activities. Amusement rides are being planned for children with areas of interest for adults as well. Wrist bands will be offered at \$10 each and will provide access to all amusements and games for the entire afternoon.

Food will be available from various food truck vendors. We invite you, your group, organization, or business to be a part of this community celebration. Ways to participate include volunteering or having an interactive and informative booth at the event. You may demonstrate and/or sell products and fundraise at your table; all interested vendors must submit an application and be approved by the Recreation Committee in advance and are asked to submit an application by September 1. We are also asking for financial support either by a monetary donation, by sponsorships, or by providing a basket or raffle prize.



SUMMER CAMP AT NEW HANOVER COMMUNITY PARK

The YMCA offered a summer camp for children from New Hanover and Upper Frederick Townships who graduated from kindergarten to sixth grade at the New Hanover Community Park. There were two 2-week sessions from June 28th – July 23rd from 9am – Noon and almost 40 children participated in the programs including outdoor games, sports, arts, crafts, and science experiments. There was a theme each week such as water days where the children would do water balloon toss, water relays, etc. The children had a good time, and we look forward to having it again next year.



HICKORY PARK POOL

The Hickory Park Pool opened on Memorial Day. Many families obtained memberships and took the opportunity to beat the heat by cooling off in the pool. Not only did the guests enjoy the pool and soaking up the sun, they were also able to purchase snacks such as candy, novelty ice cream, etc. from the concession stand. Four thermoplastic coated picnic tables were purchased and installed so that guests had a comfortable place to sit while enjoying their snacks. Thank you to the lifeguards, summer snack specialist and the Public Works staff for all their hard work to make the pool a success this summer.



NEW HANOVER VOLUNTEER FIRE AND RESCUE

2154 SWAMP PIKE, GILBERTSVILLE, PA 19525 (MAILING ADDRESS)
SCHULTZ ROAD, PERKIOMENVILLE, PA
EMERGENCY CALLS – 911 • NON-EMERGENCY 610 323-2424
WWW.NEWHANOVERFIRERESCUE.ORG

Fire Chief – William Moyer
Deputy Chief – Philip Agliano
President – Matt Barnes
Township Fire Marshall – William Moyer



Wireless Smoke Detectors

Technology that will greatly improve the fire safety of your home.

A common misconception occurs when a person awakes and realizes that the smoke detector is making noise and assumes that it just began to make noise when it actually began alarming as soon as the smoke began. If the home has battery powered smoke detectors (without interconnect) the fire may have been burning for a considerable time and there may be little or no time to escape. Wireless smoke detectors are battery powered and install like regular battery powered smoke detectors and transmit signals to other detectors without wires. Providing smoke detectors on each level and in each bedroom forms an effective fire alarm system that meets National Fire Protection Association requirements, detectors are recommended in each separate room and in the basement.

- Can you hear the smoke detectors making noise from anywhere in your home and while you are asleep? Additional wireless smoke detectors can be added at any time, offer the ability to include out buildings and detached garages, can be purchased at most home centers and are an ideal upgrade for older homes that do not have hardwired detectors.



SPOTTED LANTERNFLY



The spotted lanternfly continues to pose a serious threat to the PA agricultural economy as well as is a persistent backyard pest. Their feeding habits along with their sticky-sweet excretions lead to mold and harm everything from fruit trees to grapes to hops to forestry. Every Pennsylvanian needs to keep their eyes peeled for signs of this bad bug, to scrape every egg mass, and squash every bug. Lanternflies typically hatch mid-April. During the spring and early summer, experts advise destroying Spotted Lanternfly egg masses, which look gray or tan, are unevenly spread resembling smears of mortar or clay that appear on trees, stone, or other flat smooth surfaces. Simply scrape the masses off, double bag them,

and throw them in the garbage, or place them in alcohol or hand sanitizer. Additional methods of attacking the spotted lanternfly problem includes wrapping tree trunks that the insects are climbing with sticky tape, which is most effective against nymphs in the spring, but some have had success in trapping adults as well. Birds and small mammals can be protected from the sticky by caging the sticky tape with wire or fencing material wrapped around the tree. The preferred host plant for the lanternfly is the tree-of-heaven (*Ailanthus altissima*) which is an invasive plant. Pesticides could be used but only those that are registered by the Environmental Protection Agency should be used to treat any insect on your property. Home remedies should not be used since they may be unsafe to humans, pets, and plants, and could be illegal.

WHY IS STORMWATER A PROBLEM

According to the PA Department of Environmental Resources in 2016, 19,000 miles of rivers and streams were labeled as impaired for water supply, aquatic life, recreation, or fish consumption. Stormwater runoff pollution is one of the biggest reasons for the impairment. Over the past 100 years, streets, parking lots, sidewalks, and roofs have steadily increased decreasing the amount of rain that would otherwise soak into the ground. Rainwater rushes over nonporous surfaces and causes flooding in some cases then drains into storm drains which sends it directly to rivers and streams. Enormous amounts of pollution including car oil, lawn fertilizers, pesticides, pet poop, cigarette butts and sediment from construction sites have many negative impacts on streams and rivers. Unhealthy water increases public health risks as well as harms aquatic life. Fertilizers stimulate algae growth that removes oxygen from the water. Bacteria and pathogens wash into swimming areas necessitating beach closures. Debris washing into streams can choke ducks, fish, turtles, and birds while household hazardous wastes can poison aquatic life, land animals and people if polluted water is ingested. When groundwater is not infiltrated into the ground, springs and wells can go dry. Things you can do to avoid rainwater runoff on your property:

- Maintain your downspout directing the water so it can be filtered by grass and infiltrated into the soil or into a rain garden or bioretention area.
- Install a rain barrel or cistern at the roof downspout to collect roof runoff. Water collected is great for watering plants and emptying the barrel/cistern from time to time will make it ready for the next rainfall.
- Installing a dry well and directing roof runoff to an underground storage area to allow time for the water to infiltrate into the ground.
- Use of an infiltration trench which essentially is a leaky pipe in a stone/gravel filled trench which allows water to flow through the perforations into the soil.
- Create a vegetated swale which is a shallow channel planted with grass or shrubs and will slow the rate of flow and promote infiltration while filtering pollutants.
- Naturalize your lawn by planting native trees and shrubs, planting a backyard vegetable garden and/or compost pile, mow high leaving clippings on the lawn
- Riparian buffers along streams helps to keep moving water from eroding stream banks and filters runoff, trapping nutrients and pollutants.

New development proposals and building permit applications being proposed in New Hanover Township are carefully reviewed to assure they comply with Township requirements along with various other regulatory agency requirements. Feel free to research to learn more about stormwater or call the Township office should you have questions.



MONTGOMERY COUNTY BOOKMOBILE

610-278-5100 EXT. 7 • BOOKMOBILES@MCLINC.ORG • WWW.MC-NPL.ORG

The Montgomery County Bookmobile is a free full-service mobile library branch available to Montgomery County residents at the Township's parking lot each Wednesday from 11:00 AM to 5:00 PM. The bookmobile is sponsored by the Montgomery County Commissioners and local municipalities. Protection measures are being taken due to COVID-19 pandemic. Absent COVID-19 restrictions, residents can browse the vehicle interior stocked with materials for all age groups. Materials include regular and large-print books, audiobooks, magazines, music CDs, magazines, and DVDs. Requests for books and materials can be made online and reserved for pickup at a bookmobile. The website provides a number of options for reserving books by author, title or subject matter and includes short summaries of content. The bookmobile web site offers tracing of books by reader, by due date, on a list of favorites etc.

WILDFLOWER MEADOWS

It has been determined that well-implemented and managed meadows and natural landscapes are less costly to maintain and can offer substantial savings and benefits to the Township. Meadows offer a host of ecological benefits to include stormwater control, increased wildlife and pollinator habitat, reduction of air pollution and improving the health and wellness of the citizens in the surrounding areas. Properly established meadows involve several seasons and investment in time and resources. Two locations have been identified by the Township's Environmental Advisory Board. They have partnered with a local organic farmer to come up with a project to turn 15 acres of the Swamp Creek Park, which is currently high grass, into meadows planted with wildflowers. These wildflowers are pollinators and will attract butterflies, will alleviate mowing costs and will be done without the use of herbicides. An additional .3 acres at Community Park will also become meadow. Locations have been chosen and turf grass will be removed, mulch will be added, and the area seeded. Young wildflowers may stay small and low to the ground their first year, and weeds will need to be controlled during this time to allow the natural grasses and flowers to grow and mature. Once established, maintenance will be reduced. The Township hopes to educate the community so that they will understand the social and ecological benefits of a meadow project. A Boy Scout has volunteered to be involved in this project which will give him credit toward achieving Eagle Scout status. Educational signage will be provided. Natural landscapes need not be confined to parks, conservation areas or natural reserves; opportunities exist everywhere. This project is already underway with soil testing taking place. Planting will take place in late October and hopefully, will have meadows of wildflowers the following spring.



PATRIOT
DEALERSHIPS

 **CHEVROLET** |  **BUICK** | **GMC**



 **CHEVROLET**
40 AUTO PARK BLVD • LIMERICK
610-495-1800 • ChevyKing.com

 **BUICK**
GMC
933 E PHILADELPHIA AVE • BOYERTOWN
610-367-8800 • KingofGMC.com

 **CHEVROLET**
829 WEST STREET RD • WARMINSTER
215-672-2000 • ChevyofWarminster.com

HOUSEHOLD HAZARDOUS WASTE DROP-OFF EVENTS

Montgomery County scheduled seven drop-off events in 2021; there are two sites remaining which are at Spring-Ford 9th Grade Center on September 25 and Lower Merion Transfer Station on Sunday, October 24, 2021. Preregistration and appointments are required by registering at www.MontcoPARecycles.org. Montco residents may also attend events held in other counties, you may contact the County 610-278.3618 for additional information. Typically schedules for each year are available late February.



YARD WASTE RECYCLING



Hetrick Gardens Helps Keep Recyclable Organic Matter Out of Landfills

New Hanover Township has contracted with M. Hetrick Enterprises, LLC which owns and operates Hetrick Gardens Landscape and Nursery Center to provide a location where residents may bring their yard waste for disposal. Township residents simply fill out a form upon the first visit to drop off yard waste, and with each drop off, sign a logbook with the type and amount of yard waste being dropped. Acceptable yard waste consists of tree and shrub trimming, Christmas trees, branches and sticks, grass clippings, weeds, and leaves. Grass clippings, weeds, and leaves are composted in windrows which are turned to redistribute moisture and heat while they break down. The end product is a nutrient-rich soil which can be added to gardens. Carbon-rich, woody debris from trees and shrubs is collected and periodically ground into mulch. After aging, mulch becomes a dark, nutrient-rich product with the following garden benefits: insulates the soil and helps plant roots maintain an even temperature and protection from frost, helps prevent soil erosion, and prevents evaporation from the soil, increasing the amount of water available to plants. Mulch fertilizes the soil as it decays, and weeds have more difficulty germinating in mulch than in soil. Though the Township contract is for NHT residents, Hetrick Gardens yard waste recycling facility is available for contractors and non-township residents upon paying a fee. For more information or to obtain a resident form, please

visit www.hetrickgardens.com or www.hetrickmulch.com, call Hetrick Gardens, 610-327-9066, or stop by during business hours, Monday-Friday 8:00 AM - 4:30 PM, Saturday 9:00 AM - 3:00 PM. Hetrick Gardens 2620 Swamp Pike, Pottstown, PA 19464.

Put a **FREEZE** on Winter Holiday Fires

Did you know? A heat source too close to the Christmas tree causes **1 in every 4** winter fires.

As you deck the halls this season, be fire smart. Read manufacturer's instructions for the number of light strands to connect.

Make sure your tree is **at least 3 feet away** from heat sources like fireplaces, radiators and space heaters.

U.S. Fire Administration



New Hanover Township

July 19, 2021 · 🌐



... stormwater management? You've heard the term; at least check out the story.

<https://storymaps.arcgis.com/.../388c3dbac38444e995956c44...>



STORYMAPS.ARCGIS.COM

Stormwater Management Simplified

New Hanover Township, Pennsylvania



👍 9

2 Comments 2 Shares

👍 Like

💬 Comment

➦ Share

Most relevant ▾



Write a comment...



Amy Moran

I guess nobody has an answer. Typical.

Like Reply 51w



Amy Moran

And what if people aren't practicing these guidelines and jam up the runoff

Like Reply 51w



Write a comment...



Annual MS4 Status Report

APPENDIX B

MCM #2 Public Involvement and Participation

*Stormwater topics relevant to the Annual MS4 Status Report have been marked in yellow highlighting in the public meeting minutes documents.



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com

2021 Montgomery County, PA Campaign Sign Recycling Drop-Off Program

**Drop off your campaign signs from November 3rd – November 8th
at these participating locations during normal operating hours.
Accepted materials are plastic yard signs (corrugated and film) and metal stands.**

- ★ **Abington Township Highway Yard**
2201 Florey Lane, Abington
- ★ **Cheltenham Township Public Works Facility**
8101 Old York Road, Elkins Park
- ★ **Borough of Collegeville Municipal Building**
491 East Main Street, Collegeville
- ★ **Douglass Township Building**
1320 East Philadelphia Avenue, Gilbertsville
- ★ **Hatfield Township Building**
1950 School Road, Hatfield
- ★ **Horsham Township Municipal Building**
1025 Horsham Road, Horsham
- ★ **Lower Merion Transfer Station**
1300 North Woodbine Avenue, Penn Valley
- ★ **Lower Providence Township Public Works Facility**
500 Church Road, Eagleville
- ★ **Lower Salford Township Municipal Building**
379 Main Street, Harleysville
- ★ **Montgomery Township Administration Building**
1001 Stump Road, Montgomeryville
- ★ **One Montgomery Plaza**
408 Cherry Street, Norristown
(In parking lot bordered by buildings)
- ★ **Upper Dublin Township Library**
520 Virginia Drive, Fort Washington
- ★ **Upper Gwynedd Township Pool Parking Lot**
1 Parkside Place, North Wales
- ★ **Whitemarsh Township Administration Building**
616 West Germantown Pike, Lafayette Hill
- ★ **Whitpain Township Administration Building**
990 Wentz Road, Blue Bell

Montgomery County Board of Commissioners

Valerie A. Arkosh, MD, MPH, Chair ★ Kenneth E. Lawrence, Jr., Vice Chair ★ Joseph C. Galt, Commissioner



Contact Montgomery County Recycling 610-278-3618 or recycling@montcopa.org
www.montcopa.org/campaignsigns

NEW HANOVER TOWNSHIP

Environmental Advisory Board
NOVEMBER 8th, 2021 - 6:30PM

REGULAR MEETING AGENDA

1. **CALL TO ORDER – 18:32 with Ross, Ed and Russel**
2. **PLEDGE OF ALLEGIANCE**
3. **WORK ITEMS FOR CONSIDERATION – Ross and Ed motion to delayed to December 2021**
 - A) Review of recycling program / Field Trip
 - B) Review of yard waste program
 - C) Review of Waste Management Ordinances
4. **CONSENT ITEMS**
 - A) Consider a motion for the EAB to continue work on proposed revised Waste Management / Recycling and Yard Waste Ordinances – **Progress**
 - B) Consider a motion to host a work session on (Date To Be Determined)
 - C) Consider a motion for approval of the meeting minutes for October, 2021 - **Delayed**
 - D) Consider a motion for consideration by the planning commission & BOS:
 1. Water Softeners must be incorporated into the plumbing system (sized in accordance to # of bedrooms) of every new home constructed in NHT. - **Delayed**
 2. One reverse osmosis drinking water purification system faucet OR refrigerator tap must be incorporated into the plumbing system of every new home constructed in NHT.
5. **DISCUSSION ITEMS**
 - A) NOV. 2 2021 ELECTION – New Supervisor Welcome
 - B) NHT CURRENT PROPOSED PLAN STATUS DISCUSSION / EAB FRONT-END QUESTIONS & ANSWERS FROM APPLICANTS (STATUS UPDATES)
LINK: NHT Active Plans
http://cms6.revize.com/revize/newhanover/departments/planning/active_plans_2.php

2481 ROMIG ROAD
Status: The project received preliminary approval from the Board of Supervisors and will be requesting a recommendation for final approval from the Planning Commission in the future. **Hydric Soil**

HANOVER CROSSING
Status: The project is requesting a recommendation for preliminary approval from the Planning Commission.

HANOVER GLEN
Status: The project is requesting a recommendation for preliminary approval from the Planning Commission.

NEW HANOVER TOWNSHIP

Environmental Advisory Board
NOVEMBER 8th, 2021 - 6:30PM

REGULAR MEETING AGENDA

NEW HANOVER TOWN CENTER #773

Status: The project is requesting a recommendation for revised preliminary approval from the Planning Commission. **Board of Supervisors 5/0 voted down**

PACER'S GAIT

Status: The project received preliminary approval from the Board of Supervisors on April 5 and will be requesting a recommendation for final approval from the Planning Commission. **Using basin B at Windelstray**

TROTTER'S GAIT

Status: The project received preliminary approval from the Board of Supervisors on April 5 and will be requesting a recommendation for final approval from the Planning Commission. **Basin is in the wet lands**

THE VILLAGE AT NEW HANOVER

Status: The project is requesting a recommendation for preliminary approval from the Planning Commission. **Underground BMP is below ground water. Hydric soils, basements and sump pumps**

WESTWOOD MAGUIRE TRACT

Status: The project is requesting a recommendation for preliminary approval from the Planning Commission. **PROBLEMS**

- C) Review of Previously Revised Waste Management /- **Delayed**
- D) Trash and Recycling Community Awareness Discussion (stickers for acceptable recyclable materials, / lids required on all receptacles) - **Delayed**
- E) NHT DRINKING WATER QUALITY DISCUSSION - **Action: Ross to perform hardness test on Aqua water**
 - 1. Hard Water
 - 2. In-home Reverse Osmosis Systems
- F) Review of Previously Approved EAB Consent Items, follow-up and reception / reaction from BOS / Planning commission (as applicable):
 - 1. EAB revised burning ordinances (to be reviewed by the board of supervisors)
 - 2. Rus Oister to utilize a "live staking procedure" for an area within the township where trees are needed to be grown (to be identified at a later date) at no cost to the Township. **RFI from Russel for feasibility of project**
 - 3. Adoption of a "volunteer interest form" developed by Rus Oister, to be distributed and solicited at the discretion of New Hanover Township. **Sent to Jamie to be sent to Board of Supervisors**
 - 4. Sub-divisions consisting of 12 lots or more must complete the construction of any proposed community walking trails and/or tot lots following 25%

NEW HANOVER TOWNSHIP

Environmental Advisory Board
NOVEMBER 8th, 2021 - 6:30PM

REGULAR MEETING AGENDA

occupancy as part of the construction sequence for the well-being and health of the residents. Ross and Ed made a motion to recommend to the Board of Supervisors that all walking trails in developments with more than 12 units be installed when 25% of permits are issued.

5. DIY Rain Barrel / Workshop: *The purchased quantity of the rain barrel kits will be based upon feedback and interest from the community, and proof of chemically clean barrels must be provided from the proposed barrel supplier. Ross will confirm that the drums are clean.*

6. SPECIAL PRESENTATIONS:

1. Future Presentations?
2. Burning Ordinance Presentation to BOS (discussion)

7. PUBLIC COMMENT *(No additional comments at this time)*

1. New Hanover Resident said "EAB was doing a good job."
2. New Hanover Resident said "they feel it should be required for sum pump discharge should be the builder's responsibility at construction."

8. BOARD ANNOUNCEMENTS –

1. Ed recommends sum pump information be included in the next New Hanover newsletter
2. Ross mentioned Douglass Township is not looking at BMPs.
3. Rus spoke about BMPs in New Hanover Township and 1 out of 45 worked.
4. Penn State grant has 85% of the county mapped.
5. Other townships are starting to inspect BMPs, working with 8 other counties and the DEP.
6. 80-90% of BMPs infrastructure does not work. New program will be working across township boundaries.

9. ADJOURNMENT – 19:20

NEW HANOVER TOWNSHIP

Environmental Advisory Board
September 13th, 2021 - 6:30PM

REGULAR MEETING *MINUTES*

1. CALL TO ORDER

The meeting was called to order by the chairman at 6:30 PM. In attendance were Ross Snook, Ed Swagdzis, Rus Oister, Tom Quinn and three residents from NHT.

2. PLEDGE OF ALLEGIANCE – *All in attendance recited the pledge of allegiance.*

3. WORK ITEMS FOR CONSIDERATION

A) Review of recycling program (*Tabled for a later date*)

B) Review of yard waste program (*Tabled for a later date*)

C) Review of burning ordinances / enforcement –

The NHT EAB members read through the proposed ordinances one final time.

There were no additional changes to what has been proposed for consideration for the review by the Board of Supervisors. The EAB will provide the draft ordinances to the BOS for consideration for adoption as previously discussed.

4. CONSENT ITEMS

A) Consider a motion for approval of the meeting minutes for July, 2021:

Motion carried 3-0 with one member (Ross Snook) abstaining from the vote due to absence at the July meeting.

B) Consider a motion for approval of the meeting minutes for August, 2021:

Motion carried 3-0 with one member (Rus Oister) abstaining from the vote due to absence at the August meeting).

C) Consider a motion for review by the planning commission:

Tom Quinn made a motion to incorporate into the township ordinances (for consideration by the BOS) that would require:

“Sub-divisions consisting of 12 lots or more must complete the construction of any proposed community walking trails and/or tot lots following 25% occupancy as part of the construction sequence for the well-being and health of the residents.”

The motion (Quinn/Snook) carried 4-0.

5. DISCUSSION ITEMS

A) NHT EAB's Current Core Focus Areas (reminders):

1. **Nuisance stormwater drainage / sump pump discharge**

2. SALDO reviews and comment letters to planning commission / BOS (only applicable for proposed plans).

3. Community Advocacy / Involvement for environmental stewardship

4. Unmaintained Buildings / bringing awareness of potential Infrastructure Issues
Members reviewed the current topic of focus. Ed Swagdzis mentioned that he has scaled back on reporting of unmaintained buildings, but encouraged others to continue.

NEW HANOVER TOWNSHIP

Environmental Advisory Board
September 13th, 2021 - 6:30PM

REGULAR MEETING MINUTES

B) Fall Frolic Ideas for EAB representation

Ross Snook noted that he plans to be at the Fall Frolic representing the EAB with a table and information on EAB topics. Tom Quinn has volunteered to bring a rain barrel for display purposes and will also spend some time at the EAB booth.

C) Remnants of Hurricane Ida and impact on NHT

Members discussed the impacts of the storm. The storm had buckled asphalt at four roads due to excess runoff according to Ed Swagdzis.

D) Review of R-25 Residential District: (borrowed from 2481 Romig Road plans)

ZONING: R25 - RESIDENTIAL DISTRICT	PERMITTED BY-RIGHT		
PROPOSED USE: B2 PERFORMANCE STANDARD DEVELOPMENT	REQUIRED	ALLOWED	PROVIDED
B2 - VILLAGE HOUSE PERFORMANCE	6,000 SQ.FT.	6,000 SQ.FT.	6,000 SQ.FT.
LOT AREA (MIN.)	50 FT.	50 FT.	50 FT.
LOT WIDTH (MIN.)	50 FT.	50 FT.	50 FT.
FRONT YARD (FROM RIGHT-OF-WAY)			
HOUSE (MIN.)	15 FT.	15 FT.	15 FT.
GARAGE (MIN.)	25 FT.	25 FT.	25 FT.
SIDE YARD			
HOUSE (MIN.)	5 FT.	5 FT.	5 FT.
GARAGE (MIN.)	5 FT.	5 FT.	5 FT.
REAR YARD			
HOUSE (MIN.)	30 FT.	30 FT.	30 FT.
GARAGE (MIN.)	30 FT.	30 FT.	30 FT.
BUILDING HEIGHT (MAX.)	-	-	-
BUILDING COVERAGE (MAX.)	35%	35%	35%

Members discussed the current R-25 zoning district's minimum lot areas, impervious coverage and spacing.

6. PUBLIC COMMENT

Sharon Hoffman noted that September is "honey bee month"

7. BOARD ANNOUNCEMENTS

- The EAB has a one member vacancy.*
- Ed Swagdzis noted that he would like to continue work on waste management and recycling ordinances and pursue available grants.*
- Ross Snook noted that the supervisors will be removing regulations of bee keeping from the township ordinances at the next BOS meeting on OCT 6; and the meadow seeding project has been delayed due to soil amendments needed including adding lime to raise the soil pH.*

8. ADJOURNMENT

Meeting adjourned at 8:10 PM.

New Hanover Township
Environmental Advisory Board

April 11, 2022

Regular Meeting

1. Call to order at 6:30pm. Ross, Marcella, Ed and John in attendance.
2. Pledge of Allegiance
3. Organization
 - a. Consider a motion to appoint Marcie as Vice Chair of the New Hanover EAB.
4. Consent Items
 - a. Consider a motion for approval of the meeting minutes for Feb, 2021.
 - i. Motion was made by Marcie and seconded by Ed.
 - ii. 3 yes and one abstention.
5. Discussion Items
 - a. Old business
 - i. Live stake RFI
 1. Marcie gave a brief discussion
 2. Ross will contact Penn State to get more info.
 3. Public comment: Michael Conner, " farming that uses no till methods will hold more rain water.
 4. Marcie will do a presentation on "No Till Farming."
 - ii. **DIY Rain Barrel/ Workshop**
 1. Will have in May or June.
 2. Ross will present to the BOS.
 3. This will be through the Perkioman Watershed Conservancy.
 4. We will get everything through them.
 5. All we will have to do is drill the hole in the barrel.
 6. They will provide the training.
 - iii. **Swamp Creek Rain Garden**
 1. There was a meeting with Jamie this AM.
 2. Must present to the engineer.
 - iv. Trees
 1. **Mowing**
 - a. **Marcie had brief discussion. Suggested starting flower islands around trees.**
 2. Pruning
 3. Public, Michael Conner, "Need to discuss liming the fields and getting this done before summer."
 - b. New Business
 - i. EAB focus
 1. We will have one person at every BOS meeting to present our business and calendar. This will also be in the supervisors packet.
 - ii. Plan review

1. EAB Plan review SOP
 - a. There will be a meeting with Beth Fuller to discuss.
 - b. Ross has created several forms for **basin reviews.**
 - c. Also has prepared a review questionnaire
2. 1771 Deep Creek RD sketch Plan
3. Active Plan Review.
6. Special Presentations
 - a. Wildlife Friendly E and S Controls.
 - i. Marcie discussed using wild life friendly E and S controls.
7. Public Comment
 - a. John Canale would like to join the board.
 - b. Sharron Hoffman, "Are we still looking at recycling programs?"
 - c. Russel Oister, " Can we get preapproved time with the township engineer?"
 - d. John Canale had questions about Russel Oister's presentation.
8. Board Announcements
 - a. Ed has quit.
9. Adjournment
 - a. Motion was made by John and seconded by Marcella.



Annual MS4 Status Report

APPENDIX C

MCM #3 Illicit Discharge Detection and Elimination



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com



DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date: 06/28/2022	Time Inspected: 09:15
Outfall Number: 203	Outfall/Observation Point: Outfall
Lat/Long: -75.60015024423559, 40.285440115677495	Inspector(s): Jk
Subwatershed:	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 6/23/2022	Amount of Previous Precipitation: 0.39"
Responsible Official Name:	Signature: Jay Kowal, New Hanover Township

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: No
				With sediment: Partially
Open	Concrete		18 inch	
In-stream? No				
Flow present? No				
Flow description (if present):				

Quantitative Characterization (field data for flowing outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
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		70	°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mG/L	Test strip



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

No

Photo No. 1	Dry Weather Outfall Field Screening	06/28/2022
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DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date: 06/28/2022	Time Inspected: 09:13
Outfall Number: 206	Outfall/Observation Point: Outfall
Lat/Long: -75.6002409745462, 40.285408603651064	Inspector(s): Jk
Subwatershed:	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 6/23/2022	Amount of Previous Precipitation: 0.39"
Responsible Official Name:	Signature: Jay Kowal, New Hanover Township

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: No
				With sediment: No
Open	Concrete	Other	24 inch	
In-stream? No				
Flow present? No				
Flow description (if present):				

Quantitative Characterization (field data for flowing outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
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		70	°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mG/L	Test strip



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com

Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

No

Photo No. 1	Dry Weather Outfall Field Screening	06/28/2022
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DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date: 06/28/2022	Time Inspected: 08:24
Outfall Number: 209	Outfall/Observation Point: Outfall
Lat/Long: -75.59786191215525, 40.29159213839016	Inspector(s): Jk
Subwatershed:	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 6/23/2022	Amount of Previous Precipitation: 0.39"
Responsible Official Name:	Signature: Jay Kowal, New Hanover Township

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: Partially
				With sediment: No
Open	Concrete		48inch	
In-stream? Yes				
Flow present? Yes				
Flow description (if present): Trickle				

Quantitative Characterization (field data for flowing outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
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		70	°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mG/L	Test strip



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Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

Photo No. 1	Dry Weather Outfall Field Screening	06/28/2022
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DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date: 06/28/2022	Time Inspected: 08:21
Outfall Number: 211	Outfall/Observation Point: Outfall
Lat/Long: -75.59777386590551, 40.2918680499342	Inspector(s): Jk
Subwatershed:	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 6/23/2022	Amount of Previous Precipitation: 0.39"
Responsible Official Name:	Signature: Jay Kowal, New Hanover Township

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: No
				With sediment: No
Open	Rip-rap		24 inch	
In-stream? Yes				
Flow present? No				
Flow description (if present):				

Quantitative Characterization (field data for flowing outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
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		70	°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mG/L	Test strip



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Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	No
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

No

Photo No. 1	Dry Weather Outfall Field Screening	06/28/2022
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DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date: 06/28/2022	Time Inspected: 08:56
Outfall Number: 329	Outfall/Observation Point: Outfall
Lat/Long: -75.56795702695938, 40.29407386075347	Inspector(s): Jk
Subwatershed:	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 6/23/2022	Amount of Previous Precipitation: 0.39"
Responsible Official Name:	Signature: Jay Kowal, New Hanover Township

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: No
				With sediment: No
Open	Earthen	Other		
In-stream? No				
Flow present? No				
Flow description (if present):				

Quantitative Characterization (field data for flowing outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
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		70	°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mG/L	Test strip



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Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

No

Photo No. 1	Dry Weather Outfall Field Screening	06/28/2022
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DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date: 06/29/2021	Time Inspected: 10:47
Outfall Number: 331	Outfall/Observation Point: Outfall
Lat/Long: -75.5681170073807, 40.29392109655249	Inspector(s): Jk
Subwatershed:	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 6/23/2022	Amount of Previous Precipitation: 0.39"
Responsible Official Name:	Signature: Jay Kowal, New Hanover Township

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: No
				With sediment: No
Open				
In-stream? No				
Flow present? No				
Flow description (if present):				

Quantitative Characterization (field data for flowing outfalls)

Parameter	Result	Unit	Equipment
Flow #1	Volume	Liter	Bottle
	Time to fill	Sec	
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	90	°F	Thermometer
pH		pH Units	Test strip/Probe
Ammonia		mG/L	Test strip



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Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation		Excessive	
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

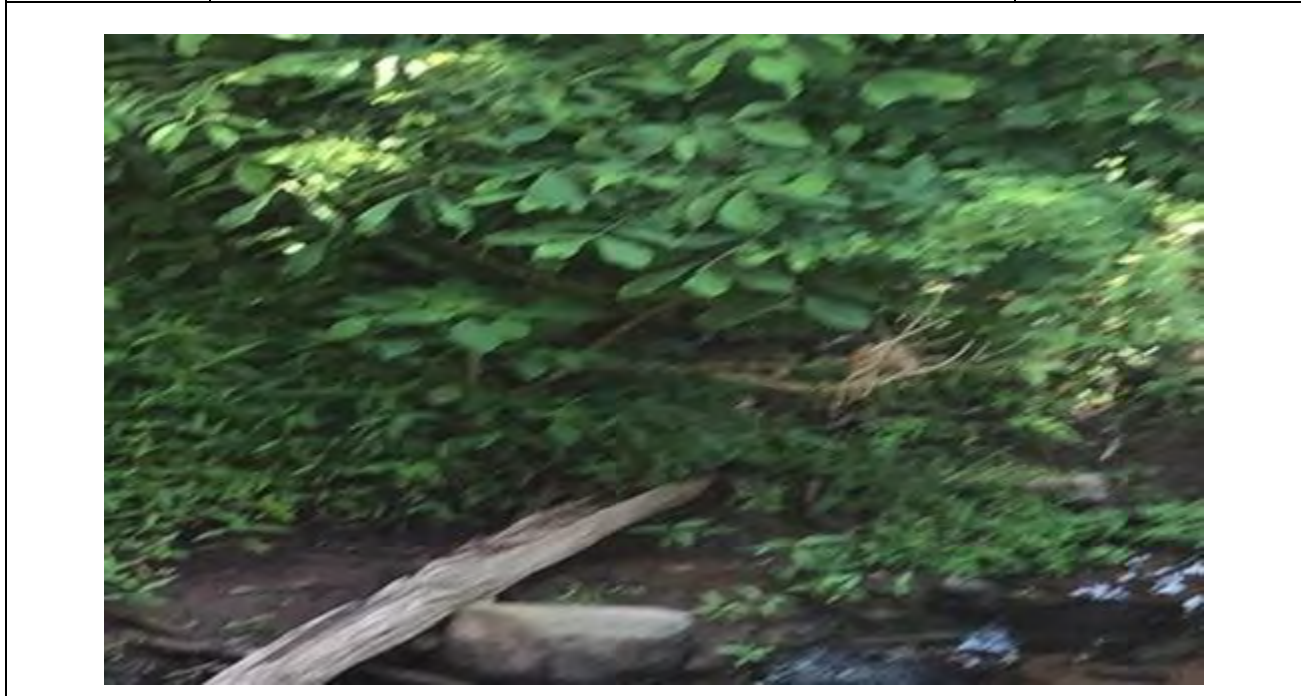
1. Sample for the lab?	
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

None

Photo No. 1	Dry Weather Outfall Field Screening	06/29/2021
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DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date: 06/28/2022	Time Inspected: 08:36
Outfall Number: 413	Outfall/Observation Point: Outfall
Lat/Long: -75.56887346757286, 40.28058676164548	Inspector(s): Jk
Subwatershed:	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 6/23/2022	Amount of Previous Precipitation: 0.39"
Responsible Official Name:	Signature: Jay Kowal, New Hanover Township

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: Partially
				With sediment: No
Open	Concrete		24/32	
In-stream? Yes				
Flow present? Yes				
Flow description (if present): Trickle				

Quantitative Characterization (field data for flowing outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
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		70	°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mG/L	Test strip



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Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge: Obvious

Data Collection

1. Sample for the lab?	
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

No

Photo No. 1	Dry Weather Outfall Field Screening	06/28/2022
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DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date: 06/28/2022	Time Inspected: 08:39
Outfall Number: 416	Outfall/Observation Point: Outfall
Lat/Long: -75.56905946739823, 40.280713918105285	Inspector(s): Jk
Subwatershed:	Contributing Drainage Area Land Use: Suburban Residential
Date of Previous Precipitation: 6/23/2022	Amount of Previous Precipitation: 0.39"
Responsible Official Name:	Signature: Jay Kowal, New Hanover Township

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water: No
				With sediment: No
Open	Concrete		24 inch	
In-stream? Yes				
Flow present? No				
Flow description (if present):				

Quantitative Characterization (field data for flowing outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
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		70	°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mG/L	Test strip



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Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:

No

Photo No. 1	Dry Weather Outfall Field Screening	06/28/2022
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Annual MS4 Status Report

APPENDIX D

MCM #5 Post Construction Stormwater Management



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BMP #	BMP Type	Site Name	BMP Address	Date Installed	NPDES #	Latitude	Longitude	Inspection Status
1A	Retention Basin	Fun-E-Farm, LLC	3488 Church Road	11/9/2018	PAG02004614031	40.31312575	-75.55232574	To be Inspected in 2022
1B	Rain Garden/Bio-Retention	Fun-E-Farm, LLC.	2488 Church Road	11/9/2018	PAG02004614031	40.31226284	-75.55255488	To be Inspected in 2022
1B1	Rain Garden/Bio-Retention	Fun-E-Farm, LLC.	2488 Church Road	11/9/2018	PAG02004614031	40.31170066	-75.55165912	To be Inspected in 2022
1C	Protected Sensitive Features	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3141	-75.5555	To be Inspected in 2022
1C1	Protected Sensitive Features	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3140	-75.5539	To be Inspected in 2022
1D	Revegetation Area	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3131	-75.5520	To be Inspected in 2022
1E	Vegetated Swale	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3127	-75.5516	To be Inspected in 2022
1F	Soils Amendment and Restoration	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3129	-75.5522	To be Inspected in 2022
1F1	Soils Amendment and Restoration	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3126	-75.5520	To be Inspected in 2022
1G	Disconnection from Storm Sewers	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3129	-75.5520	To be Inspected in 2022
1G1	Disconnection from Storm Sewers	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3124	-75.5517	To be Inspected in 2022
1G2	Disconnection from Storm Sewers	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3122	-75.5509	To be Inspected in 2022
1G3	Disconnection from Storm Sewers	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3120	-75.5518	To be Inspected in 2022
1G4	Disconnection from Storm Sewers	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3120	-75.5512	To be Inspected in 2022
1G5	Disconnection from Storm Sewers	Fun-E-Farm, LLC.	3488 Church Road	11/9/2018	PAG02004614031	40.3120	-75.5520	To be Inspected in 2022
2A	Detention Basin	Hanover Woods	Dotterer Road	7/5/2006	PAG2004605185	40.3085	-75.5877	To be Inspected in 2022
2A1	Detention Basin	Hanover Woods	Jackie Drive	7/5/2006	PAG2004605185	40.3085	-75.5861	To be Inspected in 2022
2A2	Detention Basin	Hanover Woods	Marisa Lane	7/5/2006	PAG2004605185	40.3075	-75.5862	To be Inspected in 2022
2B	Retentive Grading	Hanover Woods	Marisa Lane	7/5/2006	PAG2004605185	40.3076	-75.5848	To be Inspected in 2022
2B1	Retentive Grading	Hanover Woods	Garnet Drive	7/6/2006	PAG2004605186	40.3076	-75.5848	To be Inspected in 2022
2C	Sump Inlet	Hanover Woods	Garnet Drive	7/5/2006	PAG2004605185	40.3085	-75.5874	To be Inspected in 2022
2C1	Sump Inlet	Hanover Woods	Garnet Drive	7/5/2006	PAG2004605185	40.3088	-75.5876	To be Inspected in 2022
2C2	Sump Inlet	Hanover Woods	Jackie Drive	7/5/2006	PAG2004605185	40.3090	-75.5861	To be Inspected in 2022
2C3	Sump Inlet	Hanover Woods	Marisa Lane	7/5/2006	PAG2004605185	40.3085	-75.5851	To be Inspected in 2022
2C4	Sump Inlet	Hanover Woods	Marisa Lane	7/5/2006	PAG2004605185	40.3074	-75.5858	To be Inspected in 2022
2E	Bio-Infiltration Area	Hanover Woods	Layfield Park	7/6/2006	PAG2004605186	40.3076	-75.5848	To be Inspected in 2022
3	Infiltration Basin	Orff	961 Layfield Drive, Perkiomenville PA 18074	1/24/2007	PAG2004606121	40.3594	-75.5280	To be Inspected in 2022
4	Detention Basin	Falcon Crest (Shannon Rose Estates)	111 Lawrence Drive, Gilbertsville PA	7/3/2007	PAG2004606157	40.2784	-75.5705	To be Inspected in 2022
5A	Detention Basin	Fairbrook	107 Fairbrook Drive, Gilbertsville PA	2/4/2011	PAG02004605117R	40.2938	-75.5807	To be Inspected in 2022
5B	Vegetated Swale	Fairbrook	107-119 Fairbrook Drive, Gilbertsville PA	2/4/2011	PAG02004605117R	40.2930	-75.5805	To be Inspected in 2022
6	Detention Basin	Hanover Greene	2292 Sterling Drive, Gilbertsville PA, 19525		PAR10T919	40.2869	-75.5759	To be Inspected in 2022
8A	Seepage Bed	Highlands at Hanover II	2512 Tracy Ln, Gilbertsville PA 19525			40.2756	-75.5632	To be Inspected in 2022
8A1	Seepage Bed	Highlands at Hanover II	2514 Tracy Ln, Gilbertsville PA 19525			40.2752	-75.5630	To be Inspected in 2022
8A2	Seepage Bed	Highlands at Hanover II	2516 Tracy Ln, Gilbertsville PA 19525			40.2751	-75.5629	To be Inspected in 2022
9A	Wet (Detention) Basin	McSurdy Office Center	1831 Swamp Pike, Gilbertsville PA 19525		PAG2004606064	40.3042	-75.5887	To be Inspected in 2022
9B	Snout	McSurdy Office Center	1831 Swamp Pike, Gilbertsville PA 19525		PAG2004606064	40.3038281	-75.58913457	To be Inspected in 2022
9B1	Snout	McSurdy Office Center	1831 Swamp Pike, Gilbertsville PA 19525		PAG2004606064	40.30399249	-75.58924755	To be Inspected in 2022
10A	Seepage Bed	Minister Creek Farms	107 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29142756	-75.56022879	To be Inspected in 2022
10A1	Seepage Bed	Minister Creek Farms	109 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29152259	-75.56038365	To be Inspected in 2022
10A2	Seepage Bed	Minister Creek Farms	111 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29161493	-75.5605422	To be Inspected in 2022
10A3	Seepage Bed	Minister Creek Farms	113 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29171003	-75.56070065	To be Inspected in 2022
10A4	Seepage Bed	Minister Creek Farms	115 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29181196	-75.56085709	To be Inspected in 2022



BMP #	BMP Type	Site Name	BMP Address	Date Installed	NPDES #	Latitude	Longitude	Inspection Status
10A5	Seepage Bed	Minister Creek Farms	117 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29192332	-75.56107605	To be Inspected in 2022
10A6	Seepage Bed	Minister Creek Farms	205 Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29168057	-75.56219435	To be Inspected in 2022
10A7	Seepage Bed	Minister Creek Farms	219 Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29184063	-75.56226361	To be Inspected in 2022
10A8	Seepage Bed	Minister Creek Farms	221 Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29199494	-75.56219084	To be Inspected in 2022
10A9	Seepage Bed	Minister Creek Farms	223 Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29215703	-75.56211481	To be Inspected in 2022
10A10	Seepage Bed	Minister Creek Farms	227 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29137077	-75.56313551	To be Inspected in 2022
10A11	Seepage Bed	Minister Creek Farms	222 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29060278	-75.56349764	To be Inspected in 2022
10A12	Seepage Bed	Minister Creek Farms	220 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29054207	-75.56338786	To be Inspected in 2022
10A13	Seepage Bed	Minister Creek Farms	218 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29047912	-75.56329974	To be Inspected in 2022
10B	Infiltration Bed	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29222331	-75.56381541	To be Inspected in 2022
10B1	Infiltration Bed	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29114726	-75.56411507	To be Inspected in 2022
10C	Detention Basin	Minister Creek Farms	Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.2920776	-75.56168216	To be Inspected in 2022
10D	Retention Basin	Minister Creek Farms	Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.2920873	-75.56105321	To be Inspected in 2022
10E	Natural Features - Stream Riparian Corridor	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29323518	-75.56235338	To be Inspected in 2022
10E1	Natural Features - Existing Woodlands	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29242954	-75.56193757	To be Inspected in 2022
10E2	Natural Features - Vegetative Stabilization	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29238927	-75.56157874	To be Inspected in 2022
10E3	Natural Features - Steep Slopes	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29248722	-75.56122627	To be Inspected in 2022
10E4	Natural Features - Steep Slopes	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29244006	-75.56064154	To be Inspected in 2022
10E5	Natural Features - Riparian Stream Corridor	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29252059	-75.56013508	To be Inspected in 2022
10E6	Natural Features - Vegetative Stabilization	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29342133	-75.56047791	To be Inspected in 2022
10E7	Natural Features - Existing Woodlands	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29227774	-75.56026237	To be Inspected in 2022
10E8	Natural Features - Stream Riparian Corridor	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29194692	-75.56353696	To be Inspected in 2022
10E9	Natural Features - Existing Woodlands	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29141842	-75.56459925	To be Inspected in 2022
10E10	Natural Features - Steep Slopes	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29095724	-75.56404764	To be Inspected in 2022
10E11	Natural Features - Stream Riparian Corridor	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29088472	-75.56378879	To be Inspected in 2022
10F	Vegetative Grass Swale	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29045927	-75.56324142	To be Inspected in 2022
10F1	Vegetative Grass Swale	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29046373	-75.56159134	To be Inspected in 2022
10G	Landscape Planting	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29013961	-75.56244865	To be Inspected in 2022
10G1	Landscape Planting	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29017077	-75.56127403	To be Inspected in 2022
10G2	Landscape Planting	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29079218	-75.56005131	To be Inspected in 2022
10H	Grassy Filter Strip	Minister Creek Farms	Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	40.29100156	-75.5609908	To be Inspected in 2022
11A	Detention Basin	Pryor Tract	2303 Wooded Creek Cir			40.33610341	-75.53370217	To be Inspected in 2022
11B	Swale	Pryor Tract	2301 Wooded Creek Cir			40.33661246	-75.53408402	To be Inspected in 2022
13A	Recharge Pit	Lawrence	2408 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	40.27516046	-75.57437413	To be Inspected in 2022
13A1	Recharge Pit	Lawrence	2404 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	40.2754518	-75.57494533	To be Inspected in 2022
13B	Roof Drain Cleanout	Lawrence	2404 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	40.27558346	-75.57508051	To be Inspected in 2022
13B1	Roof Drain Cleanout	Lawrence	2408 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	40.27531888	-75.57414311	To be Inspected in 2022
13B2	Roof Drain Cleanout	Lawrence	2400 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	40.27526827	-75.57531452	To be Inspected in 2022
15A	Infiltration Basin	Rosenberry Ridge	2281 Sterling Drive, Gilbertsville, PA 19525	1/23/2008	PAG2004606154	40.2851516	-75.57605019	To be Inspected in 2022
15B	Vegetated Swale	Rosenberry Ridge	2295-2285 Sterling Drive, Gilbertsville, PA 19525	1/23/2008	PAG2004606154	40.28529527	-75.57675292	To be Inspected in 2022
16A	Detention Basin	Sterling Tract	2306 Sterling Dr, Gilbertsville, PA 19525			40.28452655	-75.57675192	To be Inspected in 2022
17A	Seepage Bed	Valley Brook II	303 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31366153	-75.53708024	To be Inspected in 2022



BMP #	BMP Type	Site Name	BMP Address	Date Installed	NPDES #	Latitude	Longitude	Inspection Status
17A1	Seepage Bed	Valley Brook II	307 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31402831	-75.53672003	To be Inspected in 2022
17A2	Seepage Bed	Valley Brook II	313 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31443322	-75.53630393	To be Inspected in 2022
17A3	Seepage Bed	Valley Brook II	355 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31635284	-75.53431389	To be Inspected in 2022
17A4	Seepage Bed	Valley Brook II	363 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31751795	-75.53544925	To be Inspected in 2022
17A5	Seepage Bed	Valley Brook II	361 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31674791	-75.5338845	To be Inspected in 2022
17B	Detention Basin	Valley Brook II	355 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31692449	-75.53495127	To be Inspected in 2022
17B1	Detention Basin	Valley Brook II	313 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.3147598	-75.53683583	To be Inspected in 2022
17C	Snout	Valley Brook II	303 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31356449	-75.537188	To be Inspected in 2022
17C1	Snout	Valley Brook II	307 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31394732	-75.53680296	To be Inspected in 2022
17C2	Snout	Valley Brook II	313 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31434623	-75.53638539	To be Inspected in 2022
17C3	Snout	Valley Brook II	355 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31647551	-75.53421611	To be Inspected in 2022
17C4	Snout	Valley Brook II	363 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31739332	-75.53536758	To be Inspected in 2022
17C5	Snout	Valley Brook II	361 Renninger Rd, Gilbertsville, PA 19525		PAG2004604200	40.31685304	-75.53377774	To be Inspected in 2022
18A	Detention Basin	Windlestrae	Tulip Lane, Gilbertsville, PA 19525	7/7/2010	PAG-02004603158R	40.31211658	-75.59192548	To be Inspected in 2022
18A1	Detention Basin	Windlestrae	Tulip Lane, Gilbertsville, PA 19525	7/7/2010	PAG-02004603158R	40.3114396	-75.59487129	To be Inspected in 2022
18A2	Detention Basin	Windlestrae	Tulip Lane, Gilbertsville, PA 19525	7/7/2010	PAG-02004603158R	40.30998746	-75.59372226	To be Inspected in 2022
18A3	Detention Basin	Windlestrae	Dotterer Road	6/15/2006	PAG-02004603158R	40.30864393	-75.58900586	To be Inspected in 2022
18A4	Detention Basin	Windlestrae	Wrenfield Lane	6/15/2006	PAG-02004603158R	40.314715	-75.584983	To be Inspected in 2022
18B	Porous Pavement	Windlestrae	Tulip Lane	6/15/2006	PAG-02004603158R	40.31023	-75.593324	To be Inspected in 2022
18C	Flo-Guard Vortex Separator	Windlestrae	Tulip Lane	6/15/2006	PAG-02004603158R	40.310072	-75.593296	To be Inspected in 2022
18D	Detention Basin Forebay	Windlestrae	Wrenfield Lane	6/15/2006	PAG-02004603158R	40.313416	-75.584459	To be Inspected in 2022
18D1	Detention Basin Forebay	Windlestrae	Wrenfield Lane	6/15/2006	PAG-02004603158R	40.31413	-75.584581	To be Inspected in 2022
18D2	Detention Basin Forebay	Windlestrae	Tulip Lane	6/15/2006	PAG-02004603158R	40.310282	-75.593745	To be Inspected in 2022
18D3	Detention Basin Forebay	Windlestrae	Middle Creek Road	6/15/2006	PAG-02004603158R	40.31196097	-75.591765	To be Inspected in 2022
18D4	Detention Basin Forebay	Windlestrae	Tulip Lane, Gilbertsville, PA 19525	6/15/2006	PAG-02004603158R	40.31196097	-75.591765	To be Inspected in 2022
18E	Inlet Snout/Oil-Grit Separator	Windlestrae	Middle Creek Road	6/15/2006	PAG-02004603158R	40.30974	-75.593271	To be Inspected in 2022
19A	Detention Basin	Kingston Hill	Canyon Creek Road, Gilbertsville, PA 19525			40.2819997	-75.59724539	To be Inspected in 2022
19A1	Detention Basin	Kingston Hill	Canyon Creek Road, Gilbertsville, PA 19525			40.28255153	-75.59640348	To be Inspected in 2022
19A2	Detention Basin	Kingston Hill	Canyon Creek Road, Gilbertsville, PA 19525			40.28233778	-75.59452013	To be Inspected in 2022
19A3	Detention Basin	Kingston Hill	Canyon Creek Road, Gilbertsville, PA 19525			40.28245222	-75.5907528	To be Inspected in 2022
19C	Amended Soils	Kingston Hill	2001 CANYON CREEK RD			40.28181	-75.5988	To be Inspected in 2022
19C1	Amended Soils	Kingston Hill	2003 CANYON CREEK RD			40.28198	-75.5986	To be Inspected in 2022
19C2	Amended Soils	Kingston Hill	2007 CANYON CREEK RD			40.28228	-75.5983	To be Inspected in 2022
19C3	Amended Soils	Kingston Hill	1988 CANYON CREEK RD			40.28095	-75.5979	To be Inspected in 2022
19C4	Amended Soils	Kingston Hill	1986 CANYON CREEK RD			40.28081	-75.5977	To be Inspected in 2022
19C5	Amended Soils	Kingston Hill	1987 CANYON CREEK RD			40.28045	-75.5981	To be Inspected in 2022
19C6	Amended Soils	Kingston Hill	1985 CANYON CREEK RD			40.28037	-75.5979	To be Inspected in 2022
19C7	Amended Soils	Kingston Hill	1983 CANYON CREEK RD			40.28026	-75.5977	To be Inspected in 2022
19C8	Amended Soils	Kingston Hill	1981 CANYON CREEK RD			40.28018	-75.5975	To be Inspected in 2022
19C9	Amended Soils	Kingston Hill	CANYON CREEK RD			40.28022	-75.5972	To be Inspected in 2022
19C10	Amended Soils	Kingston Hill	1977 CANYON CREEK RD			40.28008	-75.597	To be Inspected in 2022
19C11	Amended Soils	Kingston Hill	602 MADISON CT			40.28006	-75.5967	To be Inspected in 2022



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19C12	Amended Soils	Kingston Hill	604 MADISON CT			40.27985	-75.5967	To be Inspected in 2022
19C13	Amended Soils	Kingston Hill	606 MADISON CT			40.27962	-75.5966	To be Inspected in 2022
19C14	Amended Soils	Kingston Hill	608 MADISON CT			40.27939	-75.5964	To be Inspected in 2022
19C15	Amended Soils	Kingston Hill	609 MADISON CT			40.27935	-75.5961	To be Inspected in 2022
19C16	Amended Soils	Kingston Hill	1969 CANYON CREEK RD			40.28008	-75.5957	To be Inspected in 2022
19C17	Amended Soils	Kingston Hill	CANYON CREEK RD			40.28017	-75.5955	To be Inspected in 2022
19C18	Amended Soils	Kingston Hill	1965 CANYON CREEK RD			40.28027	-75.5952	To be Inspected in 2022
19C19	Amended Soils	Kingston Hill	1963 CANYON CREEK RD			40.28041	-75.595	To be Inspected in 2022
19C20	Amended Soils	Kingston Hill	1976 CANYON CREEK RD			40.28054	-75.5966	To be Inspected in 2022
19C21	Amended Soils	Kingston Hill	CANYON CREEK RD			40.28053	-75.5963	To be Inspected in 2022
19C22	Amended Soils	Kingston Hill	1960 CANYON CREEK RD			40.281	-75.5953	To be Inspected in 2022
19C23	Amended Soils	Kingston Hill	1956 CANYON CREEK RD			40.28124	-75.5949	To be Inspected in 2022
19C24	Amended Soils	Kingston Hill	1954 CANYON CREEK RD			40.28141	-75.5948	To be Inspected in 2022
19C25	Amended Soils	Kingston Hill	CENTENNIAL AVE			40.28154	-75.5963	To be Inspected in 2022
19C26	Amended Soils	Kingston Hill	CENTENNIAL AVE			40.28223	-75.5961	To be Inspected in 2022
19D	Restoration: Buffers/Landscape/Floodplain	Kingston Hill	Kingston Hill			40.28163	-75.5967	To be Inspected in 2022
19B	Infiltration Berm	Kingston Hill	Canyon Creek Road			40.27986	-75.5954	To be Inspected in 2022
20A1	Rain Garden	Country Meadows	201/203 Peter Lane	11/25/2019		40.30577667	-75.59344093	To be Inspected in 2022
20A2	Rain Garden	Country Meadows	205 Peter Lane	11/25/2019		40.30560004	-75.59309002	To be Inspected in 2022
20A3	Rain Garden	Country Meadows	207 Peter Lane	11/25/2019		40.30548523	-75.5927894	To be Inspected in 2022
20A4	Rain Garden	Country Meadows	207/209 Peter Lane	11/25/2019		40.3053759	-75.59243467	To be Inspected in 2022
20A5	Rain Garden	Country Meadows	101 Fox Lane	11/25/2019		40.30649711	-75.59311778	To be Inspected in 2022
20A6	Rain Garden	Country Meadows	103/105 Fox Lane	11/25/2019		40.3067467	-75.59296669	To be Inspected in 2022
20A7	Rain Garden	Country Meadows	107/109 Fox Lane	11/25/2019		40.30729425	-75.59276799	To be Inspected in 2022
20A8	Rain Garden	Country Meadows	209/211 Qual Drive	11/25/2019		40.30692678	-75.59124793	To be Inspected in 2022
20A9	Rain Garden	Country Meadows	211/213 Qual Drive	11/25/2019		40.30669041	-75.59099221	To be Inspected in 2022
20B1	Infiltration Berm	Country Meadows	2939 Dotterer Road	11/25/2019		40.30652171	-75.59119038	To be Inspected in 2022
20B2	Infiltration Berm	Country Meadows	108 Fox Lane	11/25/2019		40.30675551	-75.59159425	To be Inspected in 2022
20B3	Infiltration Berm	Country Meadows	206 Peter Lane	11/25/2019		40.30598561	-75.59195029	To be Inspected in 2022
20C1	Underground Detention Basin	Country Meadows	203 Peter Lane	11/25/2019		40.30562247	-75.59332716	To be Inspected in 2022
20C2	Underground Detention Basin	Country Meadows	207 Peter Lane	11/25/2019		40.30538989	-75.59271352	To be Inspected in 2022
20C3	Underground Detention Basin	Country Meadows	209 Peter Lane	11/25/2019		40.30522612	-75.59201335	To be Inspected in 2022
20C4	Underground Detention Basin	Country Meadows	105 Fox Lane	11/25/2019		40.30694979	-75.59304967	To be Inspected in 2022
20C5	Underground Detention Basin	Country Meadows	109 Fox Lane	11/25/2019		40.30755609	-75.59240669	To be Inspected in 2022
20C6	Underground Detention Basin	Country Meadows	110 Fox Lane	11/25/2019		40.30731911	-75.59176762	To be Inspected in 2022
20C7	Underground Detention Basin	Country Meadows	213 Qual Road	11/25/2019		40.3065427	-75.59053494	To be Inspected in 2022
20C8	Underground Detention Basin	Country Meadows	214 Qual Road	11/25/2019		40.30693589	-75.59011089	To be Inspected in 2022
20D1	Inlet Snout/Oil-Grit Separator	Country Meadows	Qual Road	11/25/2019		40.30770173	-75.5925191	To be Inspected in 2022
20D2	Inlet Snout/Oil-Grit Separator	Country Meadows	Fox Lane	11/25/2019		40.30742269	-75.59205959	To be Inspected in 2022
20D3	Inlet Snout/Oil-Grit Separator	Country Meadows	Fox Lane	11/25/2019		40.30742807	-75.59217562	To be Inspected in 2022
20D4	Inlet Snout/Oil-Grit Separator	Country Meadows	Qual Drive	11/25/2019		40.30747918	-75.59190913	To be Inspected in 2022
20D5	Inlet Snout/Oil-Grit Separator	Country Meadows	Fox Drive	11/25/2019		40.30690377	-75.59250531	To be Inspected in 2022



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BMP #	BMP Type	Site Name	BMP Address	Date Installed	NPDES #	Latitude	Longitude	Inspection Status
20D6	Inlet Snout/Oil-Grit Separator	Country Meadows	Peter Lane	11/25/2019		40.30601687	-75.59328135	To be Inspected in 2022
20D7	Inlet Snout/Oil-Grit Separator	Country Meadows	Peter Lane	11/25/2019		40.30586516	-75.59292233	To be Inspected in 2022
20D8	Inlet Snout/Oil-Grit Separator	Country Meadows	Peter Lane	11/25/2019		40.30557589	-75.59224415	To be Inspected in 2022
20D9	Inlet Snout/Oil-Grit Separator	Country Meadows	Peter Lane	11/25/2019		40.30528241	-75.59178828	To be Inspected in 2022
20D10	Inlet Snout/Oil-Grit Separator	Country Meadows	213 Qual Drive	11/25/2019		40.30634926	-75.59071226	To be Inspected in 2022
20D11	Inlet Snout/Oil-Grit Separator	Country Meadows	Dotterer Road	11/25/2019		40.3065475	-75.59026179	To be Inspected in 2022
20D12	Inlet Snout/Oil-Grit Separator	Country Meadows	Qual Drive	11/25/2019		40.30672959	-75.59022771	To be Inspected in 2022
20E	Vegetated Swale	Country Meadows	Fox Lane	11/25/2019		40.30736	-75.592957	To be Inspected in 2022
20F	Protect/Convert/Establish Riparian Buffer	Country Meadows	Quail Drive	11/25/2019		40.307959	-75.593251	To be Inspected in 2022
21A	Bio-Retention Area	Halteman Office Center	1808 Swamp Pike	5/21/2007		40.30256679	-75.59364287	To be Inspected in 2022
21B	Infiltration Basin	Halteman Office Center	1808 Swamp Pike	5/21/2007		40.30293336	-75.59279609	To be Inspected in 2022
21C	Inlet Snout	Halteman Office Center	1808 Swamp Pike	5/21/2007		40.30280809	-75.59288995	To be Inspected in 2022
22	Infiltration Trench	Boyertown Middle School East	2020 Big Rd, Gilbertsville, PA 19525	6/21/2004		40.31420061	-75.57776165	To be Inspected in 2022
23A	Vegetated Filter Strip	Acorn Hills	Samantha Way	7/30/2014		40.28458668	-75.54910452	To be Inspected in 2022
23B1	Disconnection of Roof	Acorn Hills	3024 Samantha Way	7/30/2014		40.28483105	-75.54923692	To be Inspected in 2022
23B2	Disconnection of Roof	Acorn Hills	3028 Samantha Way	7/30/2014		40.28506826	-75.54913446	To be Inspected in 2022
23C	Detention Basin	Acorn Hills	Samantha Way	7/30/2014		40.28655396	-75.5483012	To be Inspected in 2022
23D	Existing Vegetation	Acorn Hills	Samantha Way	7/30/2014		40.28529846	-75.54882198	To be Inspected in 2022
23D1	Existing Vegetation	Acorn Hills	Samantha Way	7/30/2014		40.28305732	-75.55024998	To be Inspected in 2022
23B3	Disconnection of Roof	Acorn Hills	3004 Samantha Way	7/30/2014		40.28349652	-75.54997427	To be Inspected in 2022
23B4	Disconnection of Roof	Acorn Hills	2698 ST VICTORIA DR	7/30/2014		40.28245095	-75.55183821	To be Inspected in 2022
23B5	Disconnection of Roof	Acorn Hills	2694 ST VICTORIA DR	7/30/2014		40.2824071	-75.55226836	To be Inspected in 2022
23C1	Detention Basin	Acorn Hills	ST VICTORIA DRIVE	7/30/2014		40.28235317	-75.55343081	To be Inspected in 2022
23B6	Disconnection of Roof	Acorn Hills	2544 ST VICTORIA DR	7/30/2014		40.28396416	-75.55578754	To be Inspected in 2022
23B7	Disconnection of Roof	Acorn Hills	2538 SAINT VICTORIA DR	7/30/2014		40.28379671	-75.55601048	To be Inspected in 2022
23B8	Disconnection of Roof	Acorn Hills	2534 ST VICTORIA DR	7/30/2014		40.28355051	-75.55613559	To be Inspected in 2022
23B9	Disconnection of Roof	Acorn Hills	2530 ST VICTORIA DR	7/30/2014		40.28335354	-75.55628921	To be Inspected in 2022
23B10	Disconnection of Roof	Acorn Hills	2528 ST VICTORIA DR	7/30/2014		40.28325108	-75.55642638	To be Inspected in 2022
24	Detention Basin	Boyertown YMCA	3065 N CHARLOTTE ST	2/25/2003		40.31025248	-75.57749627	To be Inspected in 2022
25A1	Infiltration Trench	Briar Ridge	2370/2374 Sycamore Lane	9/13/2012		40.2775305	-75.57669551	To be Inspected in 2022
25A2	Infiltration Trench	Briar Ridge	2463 Magnolia Drive/2377 Sycamore Lane/2381 Sycamore Lane	9/13/2012		40.27823323	-75.57589658	To be Inspected in 2022
25A3	Infiltration Trench	Briar Ridge	2398 Magnolia Dirve	9/13/2012		40.27843067	-75.57446234	To be Inspected in 2022
25A4	Infiltration Trench	Briar Ridge	2393/2397/2401 Mulberry Lane	9/13/2012		40.27893332	-75.57295608	To be Inspected in 2022
25A5	Infiltration Trench	Briar Ridge	2414 Magnolia Drive	9/13/2012		40.2800458	-75.57272916	To be Inspected in 2022
25A6	Infiltration Trench	Briar Ridge	2430/2426/2422 Magnolia Drive	9/13/2012		40.28055161	-75.57391794	To be Inspected in 2022
25B1	Infiltration Basin	Briar Ridge	2411/2427 Magnolia Drive	9/13/2012		40.27990086	-75.57403652	To be Inspected in 2022
27A1	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.28994292	-75.55436404	To be Inspected in 2022
27A2	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.28929895	-75.55296962	To be Inspected in 2022
27A3	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29161511	-75.55144463	To be Inspected in 2022
27A4	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29231931	-75.55112516	To be Inspected in 2022
27A5	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29410959	-75.55176106	To be Inspected in 2022
27A6	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29472597	-75.5521575	To be Inspected in 2022



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27A7	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29345699	-75.54718844	To be Inspected in 2022
27A8	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29506686	-75.54900386	To be Inspected in 2022
27A9	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.2956508	-75.54648643	To be Inspected in 2022
27A10	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29556669	-75.54536238	To be Inspected in 2022
27A11	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29159868	-75.54780882	To be Inspected in 2022
27A12	Bioretention Garden	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29161122	-75.54737226	To be Inspected in 2022
27B1	Vegetated Swale with Check Dam	Camp Laughing Waters	2698 HILDEBEIDEL RD			40.29309417	-75.55179458	To be Inspected in 2022
28A	Permanent Vegetation	New Hanover Square Pump Station	3076 New Hanover Square Road	6/27/1905		40.293487	-75.556403	To be Inspected in 2022
29A	Detention Basin	Hanover Preserves	513/515 Courtside Ave	12/14/2006	PAG02004606058	40.281446	-75.593041	To be Inspected in 2022
29B	Detention Basin	Hanover Preserves	517 Courtside Ave	12/14/2006	PAG02004606058	40.28127	-75.592377	To be Inspected in 2022

For Operation & Maintenance requirements, refer to the PA Stormwater BMP Manual.
 Reference the BMP inspection report for maintenance activities performed over the past year.
 NPDES numbers not available for all BMPs.



August 4, 2022



STORMWATER MANAGEMENT PROGRAM

STORMWATER BMP INSPECTION PROGRAM



Prepared For:

New Hanover Township

2943 North Charlotte Street
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Prepared By:



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*Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.*

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APPENDICES

APPENDIX A – STORMWATER BMP Inspection Form

1.0 INTRODUCTION

New Hanover Township (Township) has developed and is implementing a *Stormwater Best Management Practice (BMP) Inspection Program* as part of the Township's Stormwater Management Program. The *Stormwater BMP Inspection Program* is based on requirements of National Pollutant Discharge Elimination System (NPDES) Permits for Stormwater Discharges Associated with Construction Activities (i.e., ≥ 1 acre of earth disturbance). The *Stormwater BMP Inspection Program* also includes BMPs installed to meet Township Stormwater Ordinance requirements, associated with projects with $>1,000$ square feet of impervious surface but less than one (1) acre of earth disturbance [i.e., less than one acre (LT1A) BMPs]. Under the *Stormwater BMP Inspection Program*, the Township will check that all regulated Post Construction Stormwater Management (PCSM) BMPs approved since March 10, 2013 are properly operated and maintained.



The *Stormwater BMP Inspection Program* includes the following:

- New Hanover Township Stormwater Management Ordinance;
- Stormwater BMP inventory;
- Township inspection protocol;
- Stormwater BMP types, components, and maintenance activities;
- prohibitions; and
- an overview of the compliance process.

The *Stormwater BMP Inspection Program* is designed to comply with the Township's NPDES – Municipal Separate Storm Sewer System (MS4) Individual Permit No. PAG130020 issued by the Pennsylvania Department of Environmental Protection (PA DEP). It was developed based on the Special Conditions listed in the NPDES MS4 Permit (3800-PM-BCW0200e 12/2016). More specifically, it will meet the measurable goals and criteria outlined in Minimum Control Measure (MCM) #5 – PCSM in New Development and Redevelopment, BMP #3 of the NPDES MS4 Permit.

2.0 NEW HANOVER TOWNSHIP STORMWATER MANAGEMENT ORDINANCE

The Township adopted a stormwater ordinance (Chapter 23) as part of the Township Code on July 23, 2007. The ordinance may be cited as the “New Hanover Township Stormwater Management Ordinance”. The adoption of this ordinance followed the advertising requirements set forth in the Pennsylvania General Assembly Second Class Township Code (1933 Act 69), Section 1601 to provide the opportunity for public review, input, and feedback. The ordinance is available to the public online.

Sections of the Township ordinance that relate to the operations and maintenance (O&M) of PCSM BMPs are located under Chapter 23 (Stormwater Management) are detailed in **Table 2.1** below.



Table 2.1: New Hanover Township Stormwater Ordinance - PCSM BMP O&M

Ordinance Section Number	Ordinance Section Title
§1	General Provisions.
§2	Definitions.
§3	Drainage Plan Requirements.
§4	Stormwater Management.
§5	Inspections.
§6	Fees and Expenses.
§7	Maintenance Responsibilities.
§8	Prohibitions.
§9	Enforcement and Penalties.

These sections of the ordinance require the O&M responsibilities of all permanent BMPs, conveyances, or other stormwater management facilities to be reviewed and approved by the Township and recorded as public record. The ordinance describes both general and specific requirements for the O&M Plan and Agreement to be addressed during the Township review and approval process.

The O&M Plan and Agreement are required to establish an owner of proposed Stormwater BMPs during the review and approval process. The owner is responsible for operation, repair, and maintenance of BMPs and/or conveyances following the completion of construction. The ordinance grants duly authorized

representatives of the Township right of entry and access to inspect the O&M of stormwater management facilities per Chapter 23 §901 (Right of Entry).

3.0 STORMWATER BMP INVENTORY

MCM #5, BMP #3 requires permittees to develop and continually update an inventory of Stormwater BMPs, as development projects are reviewed, approved, and constructed. The inventory is required to include all Stormwater BMPs installed to meet requirements of the NPDES Permits for Stormwater Discharges Associated with Construction Activities (i.e., ≥ 1 acre of earth disturbance) approved since March 10, 2003 and LT1A BMPs. A copy of the current BMP inventory should be maintained and submitted to DEP each year with the Annual MS4 Status Report. The Stormwater BMP Inventory requirements are detailed in **Table 3.1** below. Because the inventory is dynamic, it is maintained as a separate document independently of this Program.

Table 3.1: NPDES MS4 Permit Requirements

Inventory Requirements
<ul style="list-style-type: none">• All stormwater BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003;• BMP location (i.e., latitude and longitude, with street address);• BMP owner (and responsible party for O&M) name, address, and phone number;• Type of BMP and the year it was installed;• Maintenance required for the BMP type (according to the Pennsylvania Stormwater BMP Manual and/or other resources);• Actual inspection/maintenance activities for each BMP; and• An assessment by the permittee if proper O&M occurred during the year; and if not, what actions the permittee has taken, or shall take, to address compliance with O&M requirements.

4.0 PRIVATE PROPERTY OWNER NOTIFICATION

Prior to conducting site inspections, property owners must be notified prior to personnel entering the private property to conduct the inspection. A certified letter should be sent to the property owner including an approximate timeframe within which the inspection will be conducted and for what purpose. This correspondence should be reviewed by the Township Solicitor. The property owner does not need to be present during the inspection.

5.0 TOWNSHIP INSPECTION PROTOCOL

The general *Stormwater BMP Inspection Program* inspection protocol is described below. The protocol can be applied to all stormwater BMPs listed in the Township Inventory for both MS4 PCSM BMPs and LT1A BMPs.

5.1 Frequency

BMP #3, under MCM #5 of the NPDES MS4 permit, states that the permittee (New Hanover Township) is responsible to “ensure adequate O&M of all post-construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.” The NPDES MS4 permit does not specify a required inspection frequency. However, the Annual MS4 Status Report requires the permittee (New Hanover Township) to ensure proper O&M of all applicable BMPs occurs during the reporting period and, if not, what actions were taken to achieve compliance.

New Hanover Township has established inspection frequency goals of:

- 1) Annually for the first 5 years.
- 2) Once every 3 years thereafter.
- 3) During or immediately after the cessation of a 25-year or greater storm, as determined by the Township Engineer.

These frequencies are consistent with PA DEP requirements as meet the specified in the PA DEP 2022 Model Stormwater Management Ordinance and coordinated with PA DEP directly. The frequency may be increased in cases of repeat non-compliance. Follow-up inspections will be required when non-compliance is documented. In some instances (i.e. minor violations), photograph documentation provided by the owner may suffice in lieu of a follow-up inspection.

5.2 Inspector

Stormwater BMPs will be inspected by a qualified Township employee or authorized sub-contractor. Inspectors should have a general knowledge on the functionality of stormwater BMPs, from both a design and construction standpoint, and/or receive training from a qualified individual.

5.3 Inspection Process

The inspection will consist of a site visit and completion of the applicable section(s) of the Stormwater BMP Inspection Form based on a visual inspection of the BMP from the surface. The **Stormwater BMP Inspection Report Form** has been provided in **Appendix B**. The approved PCSM BMP Plans and/or As-built Plans should be referenced during the site visit to ensure the BMPs are functioning as designed. Any deficiencies should be noted, and appropriate corrective action recommended. Appropriate tools should be brought to and utilized at the inspections. These tools may include a flashlight to inspect pipe interiors, tape measure to ensure the infrastructure matches the design dimensions, camera to obtain photo documentation, and a manhole hook to lift the covers inspect stormwater infrastructure (as needed). The inspector should also provide photographic documentation of BMP condition at the time of the inspection.

The Stormwater BMP Inspection Form is all-encompassing and can be utilized for the inspection of any type of BMP (both structural and non-structural). Consequently, the inspector must be aware that not all inspection elements will be applicable for each BMP. It is integral that the O&M requirements specified on the approved PCSM Plans are referenced in conjunction with the Pennsylvania Stormwater BMP Manual (December 2006) to complete the form appropriately.

The inspector should look for inconsistencies with the approved plan, accelerated erosion, excess sediment and/or debris accumulation, structural integrity, and unstabilized areas. In the event that the PCSM or O&M Plan does not contain specific maintenance requirements, the Township should inspect each BMP per the recommendations in the Pennsylvania Stormwater BMP Manual.



6.0 STORMWATER BMP TYPES

The Stormwater BMP inventory includes all PCSM BMPs installed to meet requirements in the NPDES Permits for Stormwater Discharges Associated with Construction Activities (i.e., ≥ 1 acre of earth disturbance) approved since March 10, 2003 and LT1A BMPs. Included below area <1 acre BMP that the Township includes in inspection. These BMPs should be inspected per the best available information: including the approved PCSM Plans, manufacturer specifications, and Pennsylvania Stormwater BMP Manual (The Manual) considerations. O&M protocol for each BMP type, as specified The Manual are summarized in the subsequent sections.

Structural BMPs within the Township include the following:

- Subsurface Infiltration Bed (Seepage Bed)
- Infiltration Berm and Retentive Grading (Detention Berm)
- Infiltration Basin
- Dry Extended Detention Basin
- Rain Garden
- Inlet Snout/ Oil separator

6.1 Subsurface Infiltration Bed (Seepage Bed)

A subsurface infiltration bed consists of a vegetated, highly pervious soil media underlain by a uniformly graded aggregate bed for temporary storage and infiltration of stormwater runoff. It provides temporary storage and infiltration of runoff in subsurface storage media. However, in some cases, runoff may also be temporarily stored on the surface to enhance volume capacity of the system. Maintenance activities required for subsurface infiltration beds focus on regular sediment and debris removal. The Manual recommends regular maintenance be conducted by the BMP owner/responsible party, as detailed in **Table 6.1** below.



Table 6.1: Subsurface Infiltration Bed

Primary Components	Recommended Maintenance by Responsible Party
<ul style="list-style-type: none"> • Uncompacted subgrade. • 12 to 36 inches clean washed uniformly graded coarse aggregate bed; • Perforated pipe along bed bottom for distribution as necessary; • Stone bed wrapped in non-woven geotextile fabric; • 12 to 18 inches of permeable soil cover on top of the stone bed; • Native grass or meadow plantings (or other dense low-growing vegetation); • Flow entrance (e.g. inlets, swales, etc.); and • Positive overflow. 	<ul style="list-style-type: none"> • All catch basins and inlets should be inspected and cleaned at least 2 times per year. • The overlying vegetation of subsurface infiltration beds should be maintained in good condition, and any bare spots revegetated as soon as possible. • Vehicular access on subsurface infiltration beds should be prohibited, and care should be taken to avoid excessive compaction by mowers.

6.2 Infiltration Berm and Retentive Grading (Detention Berm)

An infiltration berm is a mound of compacted earth with sloping sides that is usually located along a contour on relatively gently sloping sites. Berms can also be created through excavation/removal of upslope material, effectively creating a berm with the original grade. Berms may serve various stormwater drainage functions, including creating a barrier to flow, retaining flow and allowing infiltration for volume control, and directing flows. Grading may be designed in some cases to prevent rather than promote stormwater flows, through creation of “saucers” or “lips” in site yard areas where temporary retention of stormwater does not interfere with use. The Manual recommends regular maintenance be conducted by the BMP owner/responsible party, as detailed in **Table 6.2** below.



*Detention Berm - BMP #20B1
Photos taken during 2021 inspection.*

Table 6.2: Infiltration Berm and Retentive Grading

Primary Components	Recommended Maintenance by Responsible Party
<ul style="list-style-type: none"> • Maintain a minimum 2-foot separation to bedrock and seasonally high-water table, provide distributed infiltration area (5:1 impervious area to infiltration area - maximum), site on natural, uncompacted soils with acceptable infiltration capacity, and follow other guidelines described in Protocol 2: Infiltration Systems Guidelines. • Berms should be relatively low, preferably no more than 24 inches in height. • If berms are to be mowed, the berm side slopes should not exceed a ratio of 4:1 to avoid “scalping” by mower blades. • The crest of the berm should be located near one edge of the berm, rather than in the middle, to allow for a more natural, asymmetrical shape. • Berms should be vegetated with turf grass at a minimum, however more substantial plantings such as meadow vegetation, shrubs and trees are recommended. 	<ul style="list-style-type: none"> • Regularly inspect to ensure they are infiltrating; monitor drawdown time after major storm events. • Inspect any structural components, such as inlet structures to ensure proper functionality. • If planted in turf grass, maintain by mowing. Other vegetation will require less maintenance. Trees and shrubs may require annual mulching, while meadow planting requires annual mowing and clippings removal. • Avoid running heavy equipment over the infiltration area at the base of the berms. The crest of the berm may be used as access for heavy equipment when necessary to limit disturbance. • Routinely remove accumulated trash and debris. • Remove invasive plants as needed.

Primary Components	Recommended Maintenance by Responsible Party
	<ul style="list-style-type: none"> Inspect for signs of flow channelization; restore level gradient immediately after deficiencies are observed.

6.3 Infiltration Basin

An infiltration basin is an impoundment designed to store and infiltrate stormwater runoff. Maintenance activities required for infiltration basins focus on regular sediment and debris removal. The Manual recommends regular maintenance be conducted by the BMP owner/responsible party, as detailed in **Table 6.3** below.



Table 6.3: Infiltration Basin

Primary Components	Recommended Maintenance by Responsible Party
<ul style="list-style-type: none"> Uncompacted subgrade; Soil amendments / subsurface beds; Underdrain in basin floor; Native grass, meadow, tree and/or shrub plantings; Flow entrance (e.g., inlets and swales); Forebay; 	<ul style="list-style-type: none"> Catch basins and inlets (upgradient of infiltration basin) should be inspected and cleaned at least two (2) 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.

Primary Components	Recommended Maintenance by Responsible Party
<ul style="list-style-type: none"> • Positive overflow through engineered outlet structure; • Stable outflow (e.g., rip-rap apron); and • Emergency Spillway. 	<ul style="list-style-type: none"> • 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. • Accumulated sediment should be removed from the basin as required. The original cross section and infiltration rate should be restored. The sediment removed should be disposed of properly.



6.4 Dry Extended Detention Basin

A dry extended detention basin is a surface stormwater structure that provides for the temporary storage of stormwater runoff to prevent downstream flooding impacts. Water quality benefits may be achieved with extended detention of the runoff volume from the design storm. The Manual recommends regular maintenance be conducted by the BMP owner/responsible party, as detailed in **Table 6.4** below.

Table 6.4: Dry Extended Detention Basin

Primary Components	Recommended Maintenance by Responsible Party
<ul style="list-style-type: none"> • One (1) or more forebays; • Inflow (e.g., pipe, swale, overland flow); • Vegetated bottom; • Engineered outlet structure; • Micro pool/aquatic bench surrounding outlet structure; • Stable outflow (e.g., rip-rap apron); and 	<ul style="list-style-type: none"> • Maintenance should take place on a quarterly basis. • Owners should inspect all structures for clogging and excessive debris and sediment accumulation at least four (4) times per year, as well as after every storm greater than one (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. Disturbed areas should be immediately stabilized and revegetated.

Primary Components	Recommended Maintenance by Responsible Party
<ul style="list-style-type: none"> Emergency spillway. 	<ul style="list-style-type: none"> Mowing and/or trimming of vegetation should be performed as necessary to sustain the system, and all detritus should be removed from the basin. Owners should inspect vegetated areas annually for erosion and invasive species. Vegetative cover should be maintained at a minimum of 95 percent. If vegetative cover has been reduced by 10 percent, vegetation should be reestablished.

6.5 Rain Garden



Rain Gardens are BMPs that are typically used in lieu of a traditional detention or infiltration basin. They are designed with native facultative wet vegetation. The goal of these BMPs is to temporarily detain runoff to allow time for plant uptake or ground infiltration. Rain Gardens have been growing in popularity within residential areas as they are more aesthetically pleasing than a traditional basin.

Table 6.5: Rain Garden

Primary Components	Recommended Maintenance by Responsible Party
<ul style="list-style-type: none"> Natural or created depression Native herbaceous vegetation Native Woody vegetation Emergency spillway Flow entrance 	<ul style="list-style-type: none"> Check and spot tree for invasive species, commonly phragmites and cattails. Ensure emergency spillway is clear from debris Vegetation should be maintained through selective trimming and pruning Inspect basin post storm events to ensure water is not being retained past 72 hours

Primary Components	Recommended Maintenance by Responsible Party
	<ul style="list-style-type: none"> Accumulated sediment should be removed from the basin as required. The original cross section and infiltration rate should be restored. The sediment removed should be disposed of properly.

6.7 Inlet SNOUT

The SNOUT system from Best Management Products, Inc. (BMP, Inc.) is based on a vented hood that can reduce floatable trash and debris, free oils, and other solids from stormwater discharges. In its most basic application, a SNOUT hood is installed over the outlet pipe of a catch basin or other stormwater quality structure which incorporates a deep sump (see Installation Drawing). The SNOUT forms a baffle in the structure which collects floatable debris and free oils on the surface of the captured stormwater, while permitting heavier solids to sink to the bottom of the sump. The clarified intermediate layer is forced out of the structure through the open bottom of the SNOUT by displacement from incoming flow. The resultant discharge contains considerably less unsightly trash and other pollutants, and can also offer reductions of free-oils and finer solids.



Primary Components	Recommended Maintenance by Responsible Party
<ul style="list-style-type: none"> SNOUTs are a standalone product that are installed in existing storm inlets. 	<ul style="list-style-type: none"> Monthly monitoring for 1st year after stabilization is recommended. The structure should be cleaned out when the sump is half full. If Bio-Skirts™ are being used in the structure to enhance hydrocarbon capture and/or bacteria removals, they should be checked monthly, and serviced or replaced when more than 2/3 of the boom is submerged, indicating a nearly saturated state. Assuming a typical pollutant-loading environment exists, Bio-Skirts should be serviced* or replaced annually.

7.0 PROHIBITIONS

The New Hanover Township Stormwater Management Ordinance provides for restrictions on the alteration of BMPs; specifically, in Chapter 23, Article VIII, §804 (Alteration of BMPs). Refer to the ordinance language below.

The alteration of BMPs is prohibited in the ordinance (Chapter 23, Article VIII, §804 [Alteration of BMPs]) as follows:

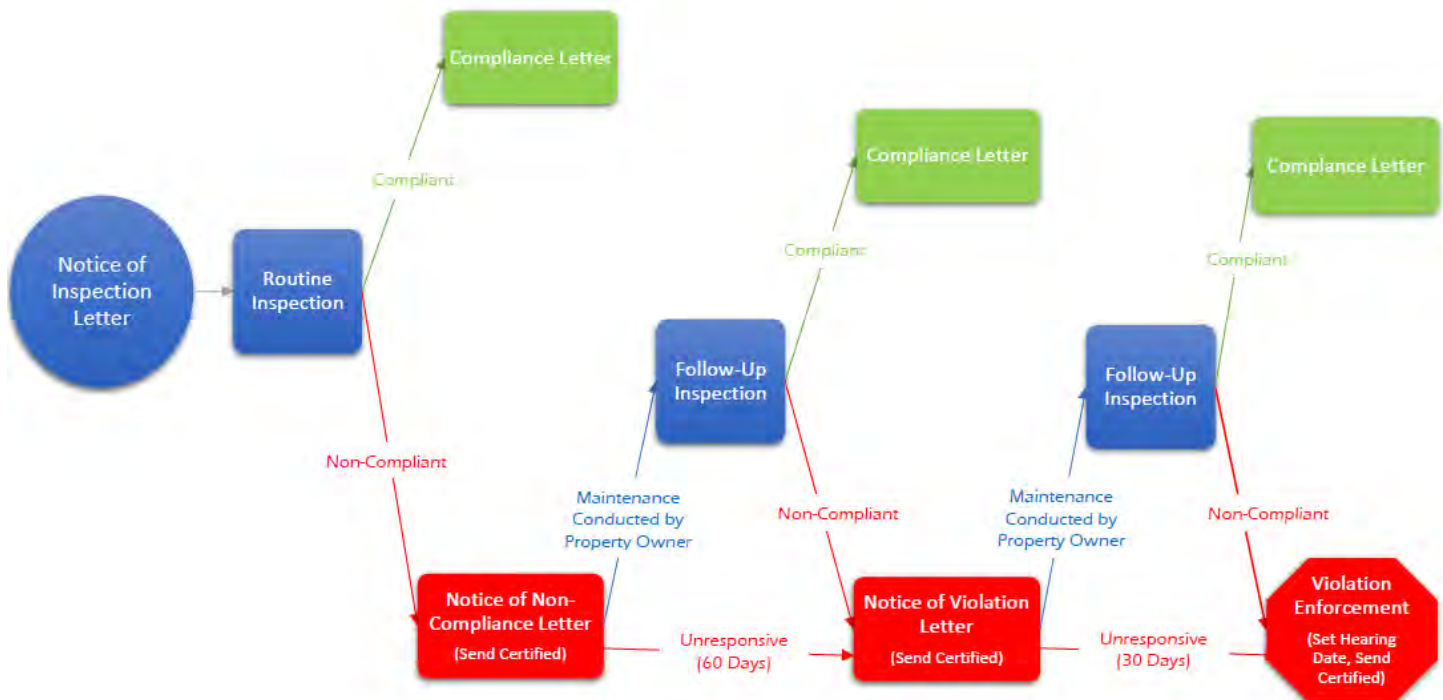
- No person shall modify, remove, fill, landscape, or alter any existing stormwater control or BMP unless it is part of an approved maintenance program without the written approval of New Hanover Township.
- No person shall place any structure, fill, landscaping, or vegetation into a stormwater control or BMP or within a drainage easement that would limit or alter the functioning of the stormwater control or BMP without the written approval of New Hanover Township.

8.0 COMPLIANCE PROCESS

If deficiencies are noted during the municipal inspection process that require addressing, the BMP owner should be notified. Due to the varying severity of deficiencies, there are different kinds of actions that the Township may need to take, including **voluntary compliance** and **enforcement** (Chapter 23, Part 9 Enforcement and Penalties). Notices of violation, enforcement and related official Township correspondence should be reviewed by the Township Solicitor.

Typically, the process of obtaining compliance should be pursued in a graduated manner. The Township should begin with efforts to obtain voluntary compliance and escalate to increasingly severe enforcement actions if compliance is not obtained. However, depending on the severity of the violation and/or if the violation is ongoing, the enforcement action should be more stringent. Specific guidance on the Township process for obtaining compliance if violation(s) are observed is illustrated in **Figure 1** below and described further in **Section 8.1**.

Figure 1: Compliance and Enforcement Chart



8.1 Notice of Violation

If a person fails to comply with the requirements of this chapter or fails to conform to the requirements of any permit issued hereunder, New Hanover Township shall provide written notification of the violation. Such notification shall state the nature of the violation(s) and establish a time limit for correction of these violation(s). Failure to comply within the time specified shall subject such person to the penalty provisions of this chapter. All such penalties shall be deemed cumulative and shall not prevent New Hanover 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 chapter.

8.2 Enforcement

In the event that voluntary compliance cannot be secured, or the responsible party is unresponsive, the Township should send a certified Enforcement Notice. The New Hanover Township Stormwater Management Ordinance (Chapter 23 Part 9 [Enforcement and Penalties], Section 905 [penalties] allows for the legal enforcement of O&M violations. The Enforcement Notice should contain the same information as the Notice of Violation with additional enforcements provisions. Failure to comply with or appeal the Enforcement Notice within 15 days of the date of the letter may subject the responsible party to the penalty provisions (see excerpt below).



ENFORCEMENT NOTICE

- **Any person, firm or corporation who shall violate any provision of this part, upon conviction thereof in an action brought before a magisterial district judge in the manner provided for the enforcement of summary offenses under the Pennsylvania Rules of Criminal Procedure, shall be sentenced to pay a fine of not more than \$1,000 plus costs and, in default of payment of said fine and costs, to a term of imprisonment not to exceed 90 days. Each day that a violation of this part continues or each section of this part which shall be found to have been violated shall constitute a separate offense.**

- **In addition, New Hanover Township, through its Solicitor, may institute injunctive, mandamus, or any other appropriate action or proceeding at law or in equity for the enforcement of this chapter. 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.**

8.3 County, State, or Federal Authorities

In certain cases, it may also be possible, helpful, or necessary to seek additional enforcement action from state or federal authorities. Depending on the nature of the violation, the jurisdictional agencies may include one or more of the following:

- Pennsylvania Department of Environmental Protection (DEP)
- Pennsylvania Fish and Boat Commission (PFBC)
- Environmental Protection Agency (EPA)
- Montgomery County Conservation District (CCCD)





APPENDIX A

STORMWATER BMP

INSPECTION REPORT FORM



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**NEW HANOVER TOWNSHIP
STORMWATER BMP INSPECTION REPORT FORM**

BMP #:		Site Name:	
BMP Type:		Temperature:	
		Weather:	
NPDES Permit #:		Date:	
Year Constructed:		Rainfall within 72 hours?	<input type="checkbox"/> Yes <input type="checkbox"/> No
PCSM BMP Plan Reference:		Structural/Non-Structural:	<input type="checkbox"/> Structural <input type="checkbox"/> Non-Structural

Responsible Party(s):		Responsible Party Address:	
Responsible Party(s):		BMP Address:	

Inspector:		Inspector Signature:	
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Inspection Type: Routine Follow-Up Post Rain Event Complaint

Site Observations

BMP Component	Violations Observed					
Contributing Drainage Area	<input type="checkbox"/> Excessive trash/debris	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Other:		
<input type="checkbox"/> No violations present at the time of inspection						
Photo No.	Comments:					
Pretreatment: Inlets, Forebays & Inflow	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Evidence of clogging	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Evidence of ponding, odors, water stains, floating aquatic	<input type="checkbox"/> Structural deterioration of inlets, outfalls or pretreatment overflow weirs into facility	<input type="checkbox"/> Maintenance access in need of repair
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Gutters, downspouts and inflow devices	<input type="checkbox"/> Screens, first flush diverters or vents blocked	<input type="checkbox"/> Other:			
Photo No.	Comments:					



BMP Component	Violations Observed					
Berm/Embankment	<input type="checkbox"/> Overgrown/unmaintained vegetation	<input type="checkbox"/> Exposed or bare soil/vegetation	<input type="checkbox"/> Woody vegetation threatening structure	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Cracking or seeping	<input type="checkbox"/> Evidence of animal burrows
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Outlet	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Structural components in need of repair	<input type="checkbox"/> Hydraulic control components in need of repair	<input type="checkbox"/> Other:	
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Overflows or Emergency Spillways	<input type="checkbox"/> Evidence of accelerated erosion or instability	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:		
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Bio-Filter Media	<input type="checkbox"/> Filter is blocked/clogged	<input type="checkbox"/> Evidence of accelerated erosion	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Stone Bed/Underdrain	<input type="checkbox"/> Perforated pipe is not functioning as designed	<input type="checkbox"/> Not dewatering per design	<input type="checkbox"/> Evidence of blockage/clogging	<input type="checkbox"/> Excessive trash/debris/sediment accumulation	<input type="checkbox"/> Other:	
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Vegetation	<input type="checkbox"/> Vegetation is dying or dead	<input type="checkbox"/> Mowing requirements not being followed/vegetation unmaintained	<input type="checkbox"/> Plant composition inconsistent	<input type="checkbox"/> Exposed/bare soil	<input type="checkbox"/> Other:	
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Insects & Rodents	<input type="checkbox"/> Insects and rodents presence impacting functionality of BMP	<input type="checkbox"/> Other:				
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					
Spill Prevention	<input type="checkbox"/> Hazardous/toxic substances are located or used near BMPs	<input type="checkbox"/> Other:				
<input type="checkbox"/> No violations present at the time of inspection	<input type="checkbox"/> Other:					
Photo No.	Comments:					

BMP #:		BMP Type:	BMP Address:
Photo No. 1	Date:	Date:	
Description			
Photo No. 2	Date:	Date:	
Description			

BMP #:		BMP Type:	BMP Address:
Photo No. 3	Date:	Date:	
Description			
Violation Type (if applicable):			
Photo No. 4	Date:	Date:	
Description			
Violation Type (if applicable):			



Annual MS4 Status Report

APPENDIX E

MCM #6 Pollution Prevention/ Good Housekeeping



ceg

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**NPDES MS4 Program Overview,
Outfall Field Screening, and
Pollution Prevention & Good Housekeeping**



Employee Training

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Project Manager

June 22, 2022
New Hanover Township Building
CedarvilleEng.com 1

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Why is the Township's Stormwater Management Program important?

- **Reduce pollutants into municipal storm sewer systems and streams.**
- **Protect water quality.**
- **It is a state and federal requirement.**




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Background

What is the NPDES MS4 Program?



- **National Pollutant Discharge Elimination System**
- **Municipal Separate Storm Sewer System**
- **EPA-mandated (NPDES)**
- **DEP administers in Pennsylvania**
- **Ultimate goals for the MS4 program**
 - *Recognize and increase awareness of stormwater as a point-source pollutant*
 - *Manage stormwater as any other point-source pollutant (i.e. wastewater, industrial, etc.)*


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Background

- **Permit Round 1 - 2003 - 2013**
 - Implement Best Management Practices (BMPs) under Six (6) Minimum Control Measures (MCMs)
- **Permit Round 2 - 2013 - 2018**
 - Continuation of MCMs
 - Added Total Maximum Daily Load (TMDL) Requirements
- **Permit Round 3 - 2018 - 2023**
 - Continuation of MCMs
 - Added Pollutant Reduction Plans & Pollutant Control Measures (PCMs) Requirements


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Pollutant Reduction Plan (PRP)


Planning

5-year Implementation
Period will not begin until PRP is approved.




Design & Construction

Must record annual progress towards achieving BMPs identified in your PRP.



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Minimum Control Measures


1. **Public Education & Outreach**
2. **Public Involvement & Participation**
- ★ 3. **Illicit Discharge Detection & Elimination**
4. **Construction Site Stormwater Runoff Control**
5. **Post Construction Stormwater Management for Development & Redevelopment**
- ★ 6. **Pollution Prevention/Good Housekeeping**

Annual Status Report




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Public Education & Outreach (MCM #1)


Permit Requires:

- **Written PEOP Program**
 - Review annually and update as needed.
 - Plans and goals.
- **Target Audience Lists**
 - Review annually and update as needed.
- **Publish at least one (1) education item per year**
 - Website
 - Newsletter
- **Distribute stormwater educational materials to target audiences using at least two (2) distribution methods per year**
 - Displays, posters, signs
 - Pamphlets, booklets, brochures, mailings, fact sheets
 - Radio, local TV, newspaper articles, other advertisements
 - Presentations, conferences, meetings
 - Workshops, giveaways, storm drain stenciling

DOCUMENT, DOCUMENT, DOCUMENT!



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Post Construction Stormwater Management in New and Re-Development (MCM #5)

Permit requires:

- Statewide Program for issuing **NPDES Permits for Stormwater Discharges Associated with Construction Activities** through DEP & the County Conservation District **SATISFIES A PORTION** of this permit requirement.
- Ordinance
- Low Impact Development (LID)
- PCSMBMP Inventory
- Written PCSMBMP Inspection Program **for BMPs approved after 2003** (Operations & Maintenance)



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Pollution Prevention/Good Housekeeping (MCM #6)




Permit Requires:


- **Written Operations & Maintenance Program**
 - Review annually and update as needed
 - Township-owned facilities and activities
- **Written Employee Training Program (for everyone!)**
 - Review annually and update as needed
 - Hold **one (1)** Employee Training per year **(you are completing this requirement as we speak!)**

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Now, let's learn more about
MCM #3
Illicit Discharge Detection & Elimination!



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MS4 Permit Requirements for Illicit Discharge Detection and Elimination

6 Best Management Practices (BMPs)

- BMP #1:** Written IDD&E Program
- BMPs #2 and #3:** Mapping
- BMP #4:** Dry Weather Outfall Field Screening
- BMP #5:** Ordinance Prohibiting Non-Stormwater Discharges into the MS4
- BMP #6:** Educational outreach specific to IDD&E

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MCM #3 - IDD&E What is an Illicit Discharge?

- Any discharge (or seepage) to a MS4 that is not composed entirely of stormwater.
 - Does not refer to discharges authorized under a NPDES permit.

Pet waste

Leaking dumpsters

Grass clippings

Sediment runoff from construction sites

Parking lot trash

Leaf litter

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How do you detect an Illicit Discharge?

What to look for:

- Discoloration
- Clarity/sedimentation
- Oily sheen
- Odor
- Floating solids
- Suspended solids
- Foam
- Other visible indicators of pollution


EXAMPLES.....

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Motor vehicle fluids (oil, etc.)

Color: Rainbow sheen
Odor: Petroleum or gasoline smell




Soaps, detergents

Color: White, grey, cloudy
Odor: Laundry detergent, soaps, or none at all




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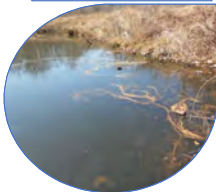
Sediment

Color: Brown, orange/yellow, "chocolate milk"
Odor: None




Restaurant Grease

Color: Yellow, golden, brown
Odor: Cooking grease, petroleum




Sewage

Color: Grey
Odor: Sulfur, fecal matter





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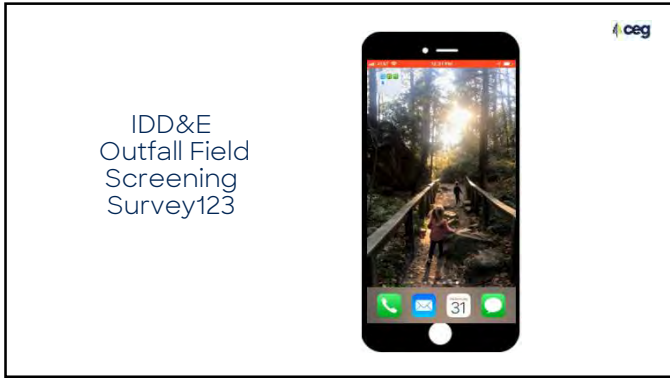
What do you do when you see an Illicit Discharge?

- **Resident:** Call Township
- **Public Works:** Report to MS4 point person

DOCUMENT!!!

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OUTFALL DESCRIPTION				
TYPE	MATERIAL	SHAPE	DIMENSIONS	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"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other <input type="checkbox"/> Other	Diameter: _____ in	<input type="checkbox"/> In Water <input type="checkbox"/> With Sediment
<input type="checkbox"/> Open Channel	<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: _____ in Top Width: _____ in Bottom Width: _____	


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MS4 Outfall Field Screening Report 

		
Submerged: More than 1/2 below water	Partially submerged: Bottom is below water	Fully submerged: Can't see outfall

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MS4 Outfall Field Screening Report 

		
Trickle Flow: Very narrow stream of water	Moderate Flow: Steady stream, but very shallow depth	Significant flow (Source is a fire hydrant discharge)

Dry Weather Flow Present at Outfall During Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, skip to Certification Section)
Description of Flow Rate: <input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Significant <input type="checkbox"/> N/A

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MS4 Outfall Field Screening Report 

DRY WEATHER FLOW EVALUATION
Does the dry weather flow contain color? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide a description below.
Does the dry weather flow contain an odor? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide a description below.
Is there an observed change in the receiving waters as a result of the discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide a description below.
Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, provide a description below.

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MS4 Outfall Field Screening Report

Were sample(s) collected of the dry weather flow? Yes No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS					
PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory:

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MS4 Outfall Field Screening Report

ILLCIT DISCHARGES
Is the dry weather flow an illicit discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes, describe efforts made to determine the source(s) of the illicit discharge.
Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.
Inspector Comments:

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MS4 Outfall Field Screening Report

RESPONSIBLE OFFICIAL CERTIFICATION	
<p>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).</p>	
Responsible Official Name _____	Signature _____
Telephone No. _____	Date _____

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Sampling / Laboratory Analysis



Common Test Parameters:

- pH
- Conductivity
- Fecal Coliform bacteria
- Heavy Metals
- Chemical Oxygen Demand (COD)
- 5-day Biochemical Oxygen Demand (BOD5)
- Total Suspended Solids (TSS)
- Total Dissolved Solids (TDS)
- Oil and Grease
- Total Residual Chlorine (TRC)
- Ammonia-nitrogen

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Illicit Discharge:
Paint

Source:
Painters
Dumping



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Illicit Discharge:
Detergent

Source:
Illicit Washing
Machine
Connection



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Eliminating an Illicit Discharge

- Voluntary Compliance
- Enforcement
 - Enforcement Notice
 - Notice of Violation
 - Citation
 - Cease & Desist Order
 - Penalties and fines

Program Documentation



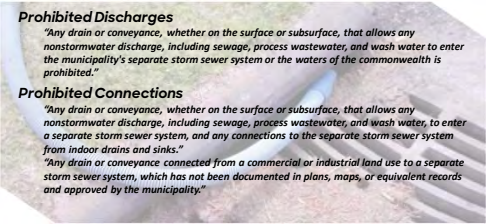
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MCM #3 - IDD&E Stormwater Management Ordinance

Prohibited Discharges
"Any drain or conveyance, whether on the surface or subsurface, that allows any nonstormwater discharge, including sewage, process wastewater, and wash water, to enter the municipality's separate storm sewer system or the waters of the commonwealth is prohibited."

Prohibited Connections
*"Any drain or conveyance, whether on the surface or subsurface, that allows any nonstormwater discharge, including sewage, process wastewater, and wash water, to enter a separate storm sewer system, and any connections to the separate storm sewer system from indoor drains and sinks."
 "Any drain or conveyance connected from a commercial or industrial land use to a separate storm sewer system, which has not been documented in plans, maps, or equivalent records and approved by the municipality."*



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MCM #3 - IDD&E Stormwater Management Ordinance

Authorized Discharges*

- Discharges from firefighting activities.
- Potable water sources including dechlorinated water line and fire hydrant flushings.
- Irrigation drainage.
- Routine external building washdown (which does not use detergents or other compounds).
- Air conditioning condensate.
- Water from individual residential car washing.
- Spring water from crawl space pumps.
- Uncontaminated water from foundation or from footing drains.
- Flows from riparian habitats and wetlands.
- Lawn watering.
- Pavement washwaters 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.
- **Dechlorinated swimming pool discharges.**
- Uncontaminated groundwater.



*To be updated for consistency with 2018 NPDES MS4 Permit and 2022 DEP Model Stormwater Management Ordinance by September 30, 2022.

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Now, let's learn more about MCM #6 Pollution Prevention & Good Housekeeping!



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How can you prevent illicit discharges from municipal facilities?



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MCM #6 Pollution Prevention and Good Housekeeping

- Goal of the Operation & Maintenance (O&M) Program is:
 - to prevent/reduce pollutants from municipal operations to the maximum extent practical




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Good Housekeeping

- Maintain a clean and orderly work environment.
- Prevent pollutant discharges into floor drains.
- Regularly inspect and maintain equipment.
- Proper chemical storage.
- Have spill clean-up materials present and accessible.



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Hazardous Spill Clean-up Sheet

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Inventory Sheet No.: _____ Date of Spill: _____
 Storage Facility Name & Address: _____
 Preparer Name(s): _____ Time of Spill: _____

What was spilled and how much?
Approximately 1/2 gallon of oil.

How long after the spill occurred did clean-up operations commence?
Within 5 minutes.

How was the spill cleaned up and how was the material disposed of?
Oil dry powder was applied to the spill and given time to absorb. The powder was swept up and disposed of in a sealed bag.

Are there any other actions that need to be undertaken regarding this spill?
No.

Contributor (Public Works Personal Contact Information)
 Employee:
 Name:
 Phone Number:
 Address:

Additional Comments _____

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Materials Storage & Handling

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- Containers, drums, and bags stored away.
- All chemicals stored in a designated cabinet.
- Chemical, fluids and supplies kept indoors.
- If outside, containers to be covered and placed on platforms.
- Contain spill with dike, berm, or absorbent materials and dispose of properly after use.

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Materials Log

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Year: _____
 Municipality: _____

Material	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
Salt (amount used)												
Wood (amount collected)												
Street Sweeping (amount collected)												
Other:												
Other:												

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Stormwater Inspections

• What to inspect:

- BMPs
- Storm Drain Inlets
- Storm Sewer Piping, Drainage Channels, and Outfalls

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Township-Owned Stormwater BMPs

- Inspect after severe weather to ensure proper functioning.
- All inspections, results, and recommendations are to be documented.

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Storm Drain Inlets

- Inspect to determine trash/sediment load and overall condition of the structure.
- Check for evidence of illegal dumping or illicit discharges.
- **Document!!!**

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Storm Sewer Piping, Drainage Channels, and Outfalls

- Inspect for:
 - Trash, debris, sediment build-up, obstructions, and water quality
- **Document!!!**

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Storm Sewer System O&M Form

Date of Inspection: _____ Facility Name: _____

Inspector: _____ Facility Location: _____

Component/Name of Check	Primary Observed	Maintenance (Check Interval)			Comments	Location (Issue #, Address, Room #, etc.)
		Yr	Mo	Day		
Catch Basin/Drain Inlet	☐ Detachment of Cover/Lid					
	☐ Cracked Baffle/Grate or Other Major Fault					
	☐ Debris or Blockage					
	☐ Damage to Structure					
Storm Manhole	☐ Detachment of Deck/Lid					
	☐ Damage to Structure					
Storm Sewer Piping	☐ Cracked Pipe					
	☐ Detached Pipe					
Ditches/Swales	☐ Excessive Vegetation					
	☐ Debris (branches, litter, garbage, etc.)					
	☐ Excessive Erosion					
Roadside/Grass Culverts	☐ Cracked Pipe					
	☐ Detached Pipe					

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Municipal Vehicle Maintenance

- Store oils, grease, and lubricants **indoors**.
- Use **dry cleanup methods** for spills instead of hosing down work areas.
- **Recycle** materials when possible.
 - Antifreeze, used oil, mineral spirits, solvents, etc.
- **Inspect** vehicles for leaks.

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Municipal Facility O&M Form

Date of Examination		Facility Name	
Inspector		Facility Location	
Category	Component/Item to be Inspected	Inspection Criteria	Inspection Results
Collection	Household sewage disposal system	Properly installed and maintained	Pass / Fail
	Sanitary sewer system	Properly installed and maintained	Pass / Fail
	Sanitary sewer main	Properly installed and maintained	Pass / Fail
	Sanitary sewer service line	Properly installed and maintained	Pass / Fail
	Sanitary sewer manhole	Properly installed and maintained	Pass / Fail
	Sanitary sewer cleanout	Properly installed and maintained	Pass / Fail
	Sanitary sewer vent	Properly installed and maintained	Pass / Fail
	Sanitary sewer trap	Properly installed and maintained	Pass / Fail
	Sanitary sewer riser	Properly installed and maintained	Pass / Fail
	Sanitary sewer drop	Properly installed and maintained	Pass / Fail
Stormwater	Stormwater collection system	Properly installed and maintained	Pass / Fail
	Stormwater main	Properly installed and maintained	Pass / Fail
	Stormwater service line	Properly installed and maintained	Pass / Fail
	Stormwater manhole	Properly installed and maintained	Pass / Fail
	Stormwater cleanout	Properly installed and maintained	Pass / Fail
	Stormwater vent	Properly installed and maintained	Pass / Fail
	Stormwater trap	Properly installed and maintained	Pass / Fail
	Stormwater riser	Properly installed and maintained	Pass / Fail
	Stormwater drop	Properly installed and maintained	Pass / Fail
	Stormwater outlet	Properly installed and maintained	Pass / Fail


Category	Component/Item to be Inspected	Inspection Criteria	Inspection Results	Comments / Action Items
Stormwater	Stormwater collection system	Properly installed and maintained	Pass / Fail	
	Stormwater main	Properly installed and maintained	Pass / Fail	
	Stormwater service line	Properly installed and maintained	Pass / Fail	
	Stormwater manhole	Properly installed and maintained	Pass / Fail	
	Stormwater cleanout	Properly installed and maintained	Pass / Fail	
	Stormwater vent	Properly installed and maintained	Pass / Fail	
	Stormwater trap	Properly installed and maintained	Pass / Fail	
	Stormwater riser	Properly installed and maintained	Pass / Fail	
	Stormwater drop	Properly installed and maintained	Pass / Fail	
	Stormwater outlet	Properly installed and maintained	Pass / Fail	

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EPA/DEP Audits

- Non-compliance is costly
 - Four central PA communities were fined in 2010 for stormwater violations. One community was fined \$177,500.
- What do they want to see?
 - Clean work spaces
 - Labeled chemicals/containers
 - Signage
 - Preparedness for spills
 - DOCUMENTATION!



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EPA/DEP Audits

Are you ready?

- **O&M Program is there to help when EPA/DEP comes to audit!**
- **IMPORTANT to keep records and documents of repairs, events, or anything pertaining to the stormwater system.**



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Tips ceg

- Designate a Public Works staff member to conduct more frequent routine inspections.
- Always DOCUMENT inspections, screenings and O&M activities.
- Don't just write it down. Take PHOTOS.
- Notify Supervisor/Manager immediately if there appears to be an illicit discharge and/or safety concern.


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Resources ceg

Montgomery County Conservation District
Perkiomen Watershed Conservancy
PA Department of Environmental Protection (PA DEP)

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Homeowners Guide to Stormwater BMP Maintenance
What You Need to Know to Take Care of Your Property

About Stormwater Management Pages 1 - 4
The Regulations for Stormwater Pages 5 - 8
Home Stormwater BMP Responsibilities Pages 9 - 22

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QUESTIONS?

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New Hanover Township
MS4 Training Sign-In Sheet

Name/Department	Date	Signature	
NHT Public works	6-22-22	Tom Vance	Tom Vance
	6-22-22	J KOWAL	Jay KOWAL
	6-22-22	Kevin Fulmer	Kevin Fulmer
	6-22-22	Randy Miller	Randy Miller
	6-22-22	Kevin Snyder	Kevin Snyder
	6-22-22	Tom Miskiewicz	Tom Miskiewicz

The above-referenced attendees attended an in-person Township-specific MS4 training provided by CEDARVILLE Engineering Group, LLC (CEG) covering the following content:

- NPDES MS4 Program Overview
- Illicit Discharge Detection and Elimination (MCM #3)
- Pollution Prevention and Good Housekeeping (MCM #6)

* Course Instructor- Beth Uhler, CEG





September 14, 2022



STORMWATER MANAGEMENT PROGRAM OPERATIONS & MAINTENANCE FOR MUNICIPAL OPERATIONS & FACILITIES

Prepared For:

New Hanover Township
Montgomery County, Pennsylvania
2943 North Charlotte Street
Gilbertsville, PA 19525
Updated January 2022



Prepared By:



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CedarvilleEng.com

Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.

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- APPENDIX B – Municipal Facility Operations and Maintenance Form
- APPENDIX C – Materials Inventory Log
- APPENDIX D – Hazardous Spill Clean-up Sheet
- APPENDIX E – Storm Sewer System Operation and Maintenance Form
- APPENDIX F – Municipal Owned Facilities Map

1. INTRODUCTION

New Hanover Township has developed an Operations & Maintenance (O&M) Program as part of the Township's Stormwater Management Program.

The O&M Program was developed to provide methods of pollution prevention and good housekeeping measures for all municipal operations and facilities that may contribute to the discharge of pollutants from the Municipal Separate Storm Sewer System (MS4). The goal of the O&M Program is to prevent or reduce pollutants to the maximum extent practical. This O&M manual will be reviewed annually and updated, as necessary.

Specifically, the O&M Program identifies:

O&M Program

- Management practices, policies, and procedures to reduce or prevent the discharge of pollutants to the MS4.
- Maintenance activities and schedules and inspection procedures to reduce the potential for pollutants to the MS4.
- Controls for reducing or eliminating the discharge of pollutants from municipal facilities; and
- Procedures for the proper disposal of waste.

The O&M Program is designed to comply with New Hanover Township's National Pollution Discharge Elimination System - Municipal Separate Storm Sewer System (NPDES-MS4) Individual Permit No. PAG130020 issued by the Pennsylvania Department of Environmental Protection (DEP). More specifically, it will meet the measurable goals and criteria outlined in Minimum Control Measure (MCM) No. 6 - Pollution Prevention/Good Housekeeping - Best Management Practice (BMP) #2 of the NPDES-MS4 permit.

Pollution prevention and good housekeeping are the simplest and least costly methods to implement to help protect stormwater quality from municipal facilities. These are integral components to an effective stormwater management policy because it is easier to prevent pollution from entering waterways than to clean it up later.

Outside contractors will also be required to follow the procedures outlined in this manual.

2. GOOD HOUSEKEEPING

Good housekeeping practices are designed to maintain a clean and orderly work environment. Often the most effective first step towards preventing pollution in the stormwater collection system simply involves using good common sense to improve basic housekeeping methods. A clean and orderly work area reduces the possibility of accidental spills caused by mishandling of chemicals or equipment and should reduce safety hazards to Township personnel. In the event of a spill, Township personnel should complete the Hazardous

Spill Clean-Up Sheet (**Appendix D**) to record the details of the spill and how it was remediated. In addition to maintaining an organized work-area, Township employees will:

- Maintain clean, dry floors and ground surfaces by using brooms, shovels, vacuum cleaners, or cleaning machines. Sweeping shall be conducted as needed to remove dirt and other debris, as well as immediately following loading/unloading activities, when practical.
- Regularly pickup garbage and waste materials and place all trash, dirt, and other debris in the dumpster. The Township's recycling program shall be utilized to collect and properly dispose of paper, plastic, cans, and bottles.

3. MATERIALS STORAGE & HANDLING

3.1 Materials Storage Practices

Improper storage can result in the release of materials or chemicals that can cause stormwater runoff pollution. Keep storage areas clean, well-organized and provide adequate aisle space to facilitate material transfer and easy access for inspections.

- All containers, drums, and bags shall be stored away from direct traffic routes to prevent accidental spills.
- All chemicals shall be stored in a designated cabinet to be easily located when necessary or for inspections.
- When practical, chemical, fluids, and supplies should be kept indoors.
- If containers containing chemicals are stored outside, they must be covered when not being used and placed on spill platforms.
- All containers shall be properly labeled or marked and kept in good condition and tightly closed when not in use.
- Perform regular inspections of all indoor and outdoor storage locations.
- Maintain the Materials Inventory Log (**Appendix C**) for record-keeping of materials.



The Township currently stores the following materials at the Public Works Garage:

- Oil containers
- Petroleum products
- Fuel additives
- Paints (spray and cans)
- De-icing materials
- Household cleaning supplies

3.2 Materials Handling Practices

Absorbent material, spill kits and drip pans must be kept near any potential spill hazard and protected from rainfall. If spills or accidents occur, contain with dikes, berms, or appropriate absorbent materials, and dispose of properly after use. Spills of hazardous materials require special care and should only be attempted by trained Township or contracted personnel. Collect all waste fluids in properly labeled containers and dispose of properly.

4. STORMWATER FACILITIES

4.1 Stormwater BMPs

The Township owns three(3) Post Construction Stormwater Management (PCSM) BMPs, which are inspected and maintained under MCM No. 5 – Post-Construction Stormwater Management (PCSM) in New Development and Redevelopment – BMP #3 of the NPDES MS4 Permit.



BMPs are to be inspected at least annually to check for sediment accumulation and overall conditions and they should be inspected after large rain events to evaluate overall performance and drainage characteristics. Inspections are to be conducted by New Hanover Township Public Works personnel (or other Township representatives) to evaluate the performance of the stormwater facilities and to determine the potential amounts of pollutants, trash and debris entering and discharging from the stormwater collection system. These inspections should occur as part of regular job duties.

- Inspections will check for excessive silt build-up, erosion, collapsed pipes, misaligned joints and water quality concerns such as unusual algae growth, discolored water, water with a sheen, and suspect odors.
- Inspections will occur after severe weather conditions, such as heavy rains, to ensure they are working properly and are clear of debris. Inspection frequencies will depend on a variety of factors including weather conditions and type and function of the stormwater structures.
- All inspections activities, results and recommendations are to be documented in writing and kept on file with the Township. Typical records to be retained for future reference include a log of all inspections, repairs and maintenance performed at the site, copies of inspection reports, invoices for work performed, and a photograph of facilities.

All municipally owned stormwater facilities will be operated per their design specifications and in a manner that prevents or reduces adverse environmental or public health and safety impacts.

New Hanover Township's stormwater facility O&M program is structured to provide inspections of all facilities and to provide maintenance as needed. All maintenance activities are to be documented in writing and kept on file with the Township. When possible, photos will be taken of various storm sewer system components to document before and after maintenance conditions.

4.2 Storm Drain Inlets

New Hanover Township owns and maintains 1,746 storm drain inlets located along roadways and in parking lots throughout the Township. To maintain the integrity of the Township's stormwater system, the Township personnel will:

- Inspect all Township storm drain inlets at least annually to determine the trash and sediment load and overall condition of the structure. If the depth of deposits is greater than or equal to one-third the depth from the basin, cleaning will be scheduled.
- Storm drain inlets that accumulate trash and deposits quickly will be inspected more frequently and the drainage area will also be inspected to determine possible causes.
- Inlet grates will be inspected to ensure that there is no trash blocking the inlets, especially before heavy rains are forecast.
- While inspecting storm drain inlets, Township staff will check for evidence of illegal dumping or illicit discharges. If evidence of illegal dumping or illicit discharges is found, efforts are to be made to identify the source of these discharges.
- New Hanover Township personnel shall schedule cleaning of municipal storm drain inlets when inspections reveal an excessive accumulation of sediment or debris. Structural repairs to any part of storm drain inlets will be performed as needed including replacement of damaged or deficient piping.



4.3 Storm Sewer Piping, Drainage Channels, and Outfalls

The Township owns several large box culverts and many miles of underground storm sewer piping ranging in size from 6 to 60 inches. The age of the piping ranges from 40 years old to new pipe that was recently installed. The piping is constructed of reinforced concrete pipe, corrugated metal pipe, and HDPE pipe. The Township maintains several ditches, culverts and swales that function as storm drainage channels. To maintain the storm sewer system, Township public works personnel will:

- Open conveyances will be inspected annually to check for trash, debris, sediment build-up, obstructions, and general water quality conditions.
- Inspect piping as needed to check for structural integrity, blockages, or any other unusual conditions such as improper cross-connections or excessive inflow/infiltration.
- Inspect stormwater outfalls periodically to check for any unusual conditions such as excessive erosion or illicit discharges.

If inspections of storm sewer piping reveal structural deficiencies, cross-connections, tree roots, sediment build-up or obstructions, then the appropriate maintenance solution will be selected and implemented as soon as possible. These solutions may include excavation and repair, tree root removal, and physical cleaning. Chemical agents will not be utilized. For cleaning techniques, such as jet/vactor use, rodding or bucketing, the downstream end of the pipe will be blocked off and the debris will be captured and removed from the system.

- For storm culverts, ditches and swales, maintenance of free-flowing conditions will be achieved by physical removal of any debris, sediment, or overgrown vegetation.
- For storm sewer easements, the Township will remove any obstruction that is identified.
- Trash/obstructions will be removed at the outfalls to maintain free flowing conditions.
- Velocity reducers will be maintained or replaced as needed.

5. ROADWAYS

New Hanover Township owns and maintains approximately 80 miles of Township roadways.

- The overall condition and cleanliness of Township roads and parking lots shall constantly be inspected and evaluated during routine travels by public works personnel.
- Those areas with excessive staining, trash or sediment will be investigated and scheduled for cleaning or repairs, as necessary.
- Appropriate corrective actions shall be considered for any areas exhibiting flooding or poor drainage patterns.

The following roads within the Township are State owned and maintained:

- Big Road
- Layfield Road
- Charlotte Street
-

While the following roads within the Township are county owned and maintained

- Hill Road
- Henning Road
- Synder Road
- Hoffmansville Road
- Ludwig Road
- New Hanover Square Road
- Fagleysville Road
- Sanatoga Road
- Moyer Road

New Hanover Township is responsible for repairs and maintenance of all Township owned roadways. If outside contractors perform road paving or repairs, the following guidelines should be followed:

5.1 Roadway Paving Repair

Roadway paving repairs have the potential to generate stormwater pollution due to the materials and equipment needed to perform the repairs. To avoid and/or minimize stormwater pollution, the Township will follow the guidelines provided below:



- Avoid paving activities during wet weather.
- Ensure that storm drain inlets and open manholes are protected during road repair work to prevent slurry mixes, dust, and debris from entering the storm sewers.
- Avoid using water to clean up. Mechanically sweep and/or vacuum dust and debris following all activities. DO NOT wash residue into the storm drain system.
- Place stockpiles away from waterways and stormwater inlets to prevent materials from being washed into streams. Cover stockpiles or contain with berms.
- Contain water and wastes generated during cleaning and flushing of spray equipment and field servicing of equipment. Use inlet protection and allow area to dry before uncovering storm drain inlets.
- Recycle used materials such as asphalt. Store these materials properly.
- Use drip pans to contain leaks from vehicles and equipment parked at the site overnight.

5.2 Traffic Line Painting

During routine traffic line painting, the Township will follow the guidelines provided below to reduce the potential for stormwater pollution to the MS4:

- Develop paint-handling procedures for proper use, storage, and disposal of paints to keep the material contained.
- Protect storm drain inlets, open manholes and roadside ditches during grinding and pressure washing activities.
- Avoid using water to clean up. Mechanically sweep and/or vacuum grindings and dust following all activities. DO NOT wash residue into the storm drain system.
- Contain water and wastes generated during cleaning and flushing of equipment and field servicing of equipment. Use inlet protection and allow area to dry before uncovering storm drain inlets.

5.3 Snow Removal and De-Icing

The storage and application of materials used for roadway de-icing or traction control shall be conducted in a manner that reduces the impact to the storm sewer system and the environment. New Hanover Township uses salt for de-icing. All road salt is stored indoors at the public works maintenance facility. All salt is further tarpred within the storage shed to prevent any runoff when not in use.

- During loading and unloading of salt, prevent and/or minimize spills by utilizing safe work practices and sound judgment.
- If any material is spilled, promptly collect it using dry cleaning methods. All collected materials shall be either reused or properly discarded.
- Minimize the tracking of materials from the storage area and the distance that road salt is transported during the loading/unloading operations.
- All operators of snowplows/salt spreaders are to be trained in the proper application rates of road salt. The salt spreaders are to be examined before operating to ensure that they are functioning properly.
- The application of road salt to roads or parking lots will be only enough to accomplish the task and will take into consideration site specific characteristics such as road width and design, traffic concentration, and proximity to surface waters.



6. DISPOSAL OF DEBRIS

Yard waste and organic debris is disposed of by the contracted refuse management company. The Township does not collect or handle any debris.

7. FERTILIZERS, HERBICIDES & PESTICIDES

The Township utilizes pesticides and herbicides to manage roadside vegetation. Chemical application is used in tandem with regular mowing. Currently the Township has two (2) licensed applicators:

- Dean Armstrong
- Tom Miskiewicz

Any herbicide and pesticide used on Township lands or around any part of the storm sewer collection system will be reviewed by the person(s) listed above to comply with all applicable regulations and to prevent adverse water quality impacts.

- Applications will only be conducted by Township personnel or contractors who have an appropriate applicators license from the PA Department of Agriculture.
- Herbicides, and pesticides shall be applied exactly according to manufacture guidelines, as more is not always better in the case of chemical applications. The use of these chemicals will be limited as much as possible and non-hazardous alternatives shall be encouraged.
- Herbicides and pesticides shall be stored in a covered location to avoid any chemicals from entering into the municipal separate storm system.

8. MUNICIPAL FACILITIES

The Township owns and maintains two (2) facilities that have the potential for producing stormwater pollution. There are also various parks and open spaces that do not have the potential for producing stormwater pollution. See the list below. An inventory of activities and BMPs for each facility is located in **Appendix A**. The locations of these facilities are illustrated on the Municipal Facilities Location Map in **Appendix F**. These properties will be operated and maintained in a manner that reduces the potential for pollution to enter the municipal storm sewer system or to the environment using the Municipal Facility Operation & Maintenance Form, located in **Appendix B**.



- **Municipal Complex** (2901 North Charlotte Street)
The municipal complex consists of a main garage, fueling station, a salt shed, police station, administrative offices, associated parking facilities and other infrastructure.
- **NHTA Waste Water Treatment Plant (WWTP)** (2990 Fagleysville Road)
- **3 NHTA Pump Stations** New Hanover township has the following three (3) pump stations which were determined to not have potential for generating pollution to stormwater runoff.
 - Burton Drive
 - New Hanover Square Road
 - Samantha Way
- **Parks/Open Space** - The following list of parks and open space were determined to not have a potential for generating pollution to stormwater runoff:

<ul style="list-style-type: none"> ○ New Hanover Township Recreation Area ○ Hickory Park ○ Swamp Creek Park ○ Anthony Gambone Sports Complex ○ Wassmer-Layfield Park ○ Deep Creek Park 	<ul style="list-style-type: none"> ○ New Hanover Township Community Park ○ Parestis Park ○ Rosenberry Road Open Space ○ Kurtz Road Open Space ○ Pleasant Run Park
--	--



9. MUNICIPAL VEHICLES

All Township vehicles will be operated in a manner that reduces the potential for pollution to enter the municipal stormsewer system or to the environment. This includes obeying all road and traffic rules and being alert at all times.

New Hanover Public Works Department owns the following vehicles and large equipment used for maintenance, repairs, and mowing.

UNIT NO.	YEAR	MAKE	MODEL
TRUCKS			
T-1	2020	Ford	550
T-3	2014	International	4300SBA
T-4	2016	International	7400SFA
T-5	2015	Ford	550
T-6	2022	Ford	F-250/4X4
T-7	2016	Inionational	7400SfA
T-8	2015	Ford 4x4	Crew cab
T-9	2019	Peterbuilt	Tandam Dump
T-10	2009	Mack	Tandam Dump
T-11	2011	Chevrolet	2500 Silverado
T-12	2013	Chevrolet	2500 Silverado
T-15	2005	GMC	C15
TRAILERS			
TR-1	2015	Interstate trailer	-
Tr-2	2013	Belmont	Landscape
Tr-3	2015	Carmate	Enclosed
TR-4	2017	Belmont	5x10
HEAVY EQUIPMENT			
P-1	2015	Leeboy	8500C
B-1	2018	Case Backhoe	590SN
L-1	2016	Case Loader	621
Mini Excavator	2021	John Deere	50G
L-1F	2016	Case forks	Case 721F
L-1B	2016	American Bucket	-
L-1TB	2016	Tree Basket	Case721F
M-1	2011	John Deere	6330
M-1DBM	2020	Diamond	BoomMower
M-1SB	2015	Sweepster Broom	QC32M9DM18
M-2	2010	John Deere	3520MFWD
Track Loader	2021	John Deere	333
SST-MM	2013	Bradco Mill Mach.	CP24HE
ATTACHMENTS AND MOWERS			



SST.B	2012	JCB Bucket	332/3180
SST-F	2015	Paladin Forks	30945
M-3	2012	Exmark mower	Lazer Z
M-4	2014	Toro Mower	7427
Ch-1	2010	Bandit Chipper	1090XP
R-1	2017	Case Roller	Dv36
Blower	2017	Toro PRO Blower	44552
V Box	2017	Boss V Box	VBX8000
Broom for 333	2021	John Deere	Skid Attachment

In the event of an accident involving vehicle fluids or cargo, all attempts will be made to prevent the spilled material(s) from entering the storm sewer system or nearby waterways. This could include diking, damming, absorbing, or removing the material from the affected area. All recovered materials will be disposed of in accordance with all applicable state and federal waste disposal regulations. Appropriate spill containment and recovery equipment will be maintained at the public works facility and on vehicles, when possible.

For any spill beyond the Township’s ability to address, emergency responders or local contractors will be contacted to provide assistance. An up-to-date list of appropriate contactors as well as other entities to be contacted (PA DEP, PA Fish & Boat Commission, water users/intakes, etc.) will be maintained at the Township and made readily available.

9.1 Maintenance

Minor vehicle maintenance is performed at the public works facility located at 2901 North Charlotte Street. Other maintenance such as oil change, regular maintenance, inspection, etc. is performed at Sawchuk’s Garage INC. Within the maintenance garage is a continuous floor drain that discharges into our sanitary sewer system. Washing of vehicles is not permitted within the public works garage. All vehicles must be washing outside in a location where runoff is directed to a pervious area. Vehicles, to the maximum extent possible, are stored inside our public works garage. Vehicles are periodically checked for leaks. Drip pans are to be placed to capture leaks. Do not pour liquid waste into floor drains, sinks, outdoor storm drain inlets, or other storm drains or sewer connections.

All products such as oils, grease and lubricants will be stored indoors. All products of maintenance activities, such as greasy rags, oil filters, air filters, batteries, tires and degreasers will be placed in appropriate containers within the maintenance building for proper disposal or recycling.

Avoid hosing down work areas and do not wash areas containing spillage or contaminants with water so that the runoff could enter the floor drains within the maintenance building. Utilize dry cleanup methods whenever possible. Suitable materials will be maintained on site for the cleanup and disposal of oils, chemicals, or other hazardous materials.

Utilize non-hazardous cleaners and solvents whenever possible and maintain an organized inventory of materials used in the maintenance building. Recycle antifreeze, used oil, mineral spirits and solvents when possible. Label and track the recycling of waste material. Drain oil filters before disposal or recycling. Place oil filters in a funnel over the waste oil recycling or disposal collection container to drain excess oil before disposal, then crush and recycle oil filters. Keep waste streams separate (i. e. waste oil and solvents).

Routinely inspect vehicle storage and maintenance areas to determine the effectiveness of the pollution prevention program. Maintain inspection records and promptly correct any deficiencies. Training will be conducted to educate employees and contractors on proper waste control and disposal procedures.

9.2 Fueling

The Township maintains a 5,000-gallon aboveground storage tank for fueling operations. The tank is a split tank and holds 5,000 gallons of diesel fuel. The steel tank was installed in 2006 and has double wall construction. The second outside wall is for containment. This containment area has spill monitors located on the top of tank. The tank and pump is protected by steel bollards.

The facility is used by Township Public Works and the Police Department. No other public use is permitted.



Observe proper safety techniques and constantly monitor all fueling operations to prevent or react to spillage. Do not leave a fueling operation or a storage tank delivery unattended. Discourage “topping off” of vehicle fuel tanks through training and signage. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment, and appropriate contact information for the person(s) responsible for spill response.

The fuel delivery company is responsible to assure proper delivery procedures are followed. Any spills are to be reported to the responsible person immediately.

Any spillage from fueling activities will be controlled and cleaned up immediately. Appropriate clean up materials such as oil dry or absorbent pads will be maintained at the maintenance facility and will be used to prevent spillage from migrating away from the area. Small spills can be cleaned up with rags and larger spills can be cleaned with dry absorbent materials such as kitty litter, straw, or sawdust. Dispose of collected waste properly. Water will not be used to wash or cleanup fuel spillage.

The fueling area and storage tank will be routinely monitored for general housekeeping conditions and signs of possible leakage. Any fueling equipment found to be leaking or in disrepair will be repaired or replaced as soon as possible.

9.3 Vehicle/Equipment Washing

All vehicles or equipment washing is to occur outside and away from storm drains. The Township washes vehicles and equipment on an as needed basis. The washing activities runoff must infiltrate into the ground and is not be permitted to enter any storm drain system or be permitted to remain on outdoor paved areas where future rain events could then carry it to a storm drain system. Phosphate-free biodegradable detergents will be used whenever possible. All efforts should be made to avoid any water from entering the municipal stormwater system.

10. GOALS AND ACCOMPLISHMENTS

The goal of the O&M program is to prevent and reduce pollution runoff from operations, facilities, and activities by the Township. The Township is required to submit annual reports on the Stormwater Management Program to DEP by September 30th. The annual reports are available to the public by request at the Township Municipal Building. O&M accomplishments will be reported each year in the Annual MS4 Status Report.



APPENDIX A

Municipal Facilities Inventory



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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NEW HANOVER TOWNSHIP - MUNICIPAL FACILITIES INVENTORY OF ACTIVITIES

ACTIVITIES & BEST MANAGEMENT PRACTICES (BMPs)	Public Works Facility	WWDP (Fagleysville Road)	Parks and Open Space
Landscaping & Lawncare			
Pesticide Application/Storage			X
Herbicide Application/Storage			X
Limit Purchase/Storage to One Year Supply			
Zero/Low Input Lawns			
Alternative Landscaping Techniques			
Grass Clippings Left on Lawn			
Integrated Pest Management			
Recordkeeping Fertilizer & Pesticide Use			
Spill Response & Prevention			
Aboveground Storage Tanks	X	X	
Drums for Liquid Storage	X	X	
Chemical Storage	X	X	
Secondary Containment Systems	X	X	
Floor Drain Storage Tank	X		
Spill Berm			
Roof/Overhang			
Vehicle/Equipment Washing			
Vehicle Washing	X		
Washwater Drains to MS4			
Vehicle Washing Inside; Single Purpose Bay			
Biodegradable Soaps (if used)	X		
Washwater Drains to Floor Drain Storage Tank	X		
Washwater Drains to Sanitary Sewer			
Equipment Rinsed on Vegetated Area			
Commercial Carwash Used (for small vehicles)	X		
Roadway & Bridge Maintenance			
Roadway Patching, Resurfacing, Sealing			

ACTIVITIES & BEST MANAGEMENT PRACTICES (BMPs)	Public Works Facility	WWDP (Fagleysville Road)	Parks and Open Space
Maintenance of Unpaved Roads			
Bridge & Structure Maintenance			
Painting/Paint Removal			
Dry Weather Paving			
Cover Storm Drain Inlets Prior to Paving			
Fluid Leaks/Spills from Paving Cleaned ASAP			
Cover Storm Drain Inlets When Painting			
Sweeping/Vacuuming After Task is Done			
Hazardous & Waste Materials Management			
Oil/Antifreeze Use and/or Storage	X	X	
Paints, Thinners, Solvents Use and/or Storage	X	X	
Cleaning Agents Use and/or Storage	X	X	
Illegal Dumping Occurs			
Recycle Drop Off Location			
Limit Purchase/Storage to One Year Supply	X	X	
Proper Storage; Away from Floor/Storm Drains	X	X	
Oil & Antifreeze Recycling	X	X	
Household Hazardous Waste Collected			
Litter Control Program			
Inspection of Material Storage Areas	X	X	
Building Maintenance			
Household Cleaning Performed	X	X	
Exterior Building Washing Performed	X	X	
Sidewalk Cleaning	X	X	
Roof Drainage Systems	X	X	
Walkway Salt Application	X	X	
Direct Washwater Away from MS4	X	X	
Minimize Salt Use	X	X	
Direct Roof Drain(s) to Grass, Rain Garden, etc.			

ACTIVITIES & BEST MANAGEMENT PRACTICES (BMPs)	Public Works Facility	WWDP (Fagleysville Road)	Parks and Open Space
Fluorescent/Other Light Recycling	X	X	
Paper/Plastic Recycling	X	X	
Stormwater Infrastructure Maintenance			
Stormwater Infrastructure Present	X	X	
Stormwater is Treated on Site	X		
Stormwater Drains to MS4	X	X	
Structure Inspection	X	X	
Structure Maintenance, Repair & Cleaning	X	X	
Open Ditch Maintenance	X	X	
Dispose/Store Vactor Waste Properly	X	X	
Structural BMP on Site	X		
Non-Structural BMP on Site			
Street Cleaning			
Street Cleaning & Maintenance			
Street Sweeping			
Disposal of Sweeper Waste			
Sweeps in a Pattern to Avoid Inlets			
Maintain Roadside Vegetation			
Dispose/Store Sweeper Waste Properly			
Road Salt Storage & Application			
Road Salt Performed			
Salt Storage On-Site	X		
Covered Salt Storage Facility	X		
Spreaders Calibrated & Maintained	X		
Diversion Berms to Reduce Run-On to Storage			
Alternative Materials Used (identify)			
Establish Low Salt for Sensitive Areas			

Comments:



APPENDIX B

Municipal Facility Operations and Maintenance Form



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Municipal Facility Operation & Maintenance Form

Date of Inspection:

Inspector:

Category	Components/Items to Check	Problems Observed	Maintenance/Repairs Necessary			Comments / Actions Taken
			Yes	No	N/A	
Hazardous Spill Response and Prevention	Products/waste storage areas	<input type="checkbox"/> Uncovered/deteriorating containers <input type="checkbox"/> Materials spilled, leaks				
	Equipment storage areas	<input type="checkbox"/> Fluid Leaks				
	Secondary containment systems	<input type="checkbox"/> Structural deterioration <input type="checkbox"/> Leakage of fluids				
	Floor drains, storm receiver inlets and outlets	<input type="checkbox"/> Accumulation of contaminants				
Hazardous and Waste Materials Management	Outside storage areas	<input type="checkbox"/> Weathering				
	Salt piles	<input type="checkbox"/> Salt staining				
	Soil staging areas	<input type="checkbox"/> Silt runoff				
	Aboveground storage tanks	<input type="checkbox"/> Deterioration				
	Inside storage areas	<input type="checkbox"/> Potential for discharges				
	Drums, other containers	<input type="checkbox"/> Deterioration <input type="checkbox"/> Uncovered				
Vehicle and Equipment Maintenance/Storage Area	Truck/equipment	<input type="checkbox"/> Leak/spills				
	Salt/sand spreader	<input type="checkbox"/> Improper amounts of product applied				
	Lawn care equipment	<input type="checkbox"/> Improper operation				
Vehicle and Equipment Washing Area	Designated "wash only" area	<input type="checkbox"/> No impermeable pad with wastewater collection system				
	Wastewater discharge location	<input type="checkbox"/> Does not flow to either a holding tank or to sanitary sewers				
	Washing/degreasing compounds	<input type="checkbox"/> Solvent based				
Road Salt Storage and Application	Storage shed	<input type="checkbox"/> Salt outside of shed				
	Truck loading area	<input type="checkbox"/> Salt on ground				
	Roads - (sites of application)	<input type="checkbox"/> Excessive salt on ground				
	Salt spreader	<input type="checkbox"/> Excessive salt on ground				
Pest Control	Pesticide storage area	<input type="checkbox"/> Excessive amounts of pesticides <input type="checkbox"/> Spilled pesticides <input type="checkbox"/> Empty containers				
	Application equipment	<input type="checkbox"/> Improper amounts of pesticides applied				



APPENDIX C

Materials Inventory Log



Cedarville Engineering Group, LLC

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Materials Inventory Log

Calendar Year:

Material	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
Salt (amount used)												
Yard Waste (amount collected)												
Street Sweeping (amount collected)												
Other: _____												
Other: _____												



APPENDIX D

Hazardous Spill Clean-up Sheet



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Hazardous Spill Clean-up Sheet

Inventory Sheet No.:

Storage Facility Name & Address:

Preparer Name(s):

Date of Spill:

Time of Spill:

What and how much was spilled?

How long after the spill did clean-up begin?

How was the spill cleaned up and how was the material disposed of?

Are there any other actions that need to be undertaken regarding this spill?

Additional Comments:



APPENDIX E

Storm Sewer System Operation and Maintenance Form



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Storm Sewer System Operation & Maintenance Form

Date of Inspection:				Facility Name:			
Inspector:				Facility Location:			
Components/Items to Check	Problems Observed	Maintenance/ Repairs Necessary			Comments	Location (House #, distance from intersection)	
		Yes	No	N/A			
Catch Basin/Drop Inlet	<input type="checkbox"/> Deterioration of Structure						
	<input type="checkbox"/> Clogged Inlets During or After Storm Event						
	<input type="checkbox"/> Deposits in Structure						
Storm Manhole	<input type="checkbox"/> Deterioration of Structure						
	<input type="checkbox"/> Deposits in Structure						
Storm Sewer Piping	<input type="checkbox"/> Clogged Pipe						
	<input type="checkbox"/> Deteriorated Pipe						
Ditches/Swales	<input type="checkbox"/> Excessive Vegetation						
	<input type="checkbox"/> Debris (branches, litter, garbage, etc.)						
	<input type="checkbox"/> Excessive Siltation						
Roadside/Cross Culverts	<input type="checkbox"/> Clogged Pipe						
	<input type="checkbox"/> Deteriorated Pipe						
BMPs	<input type="checkbox"/> Excessive Vegetation						
	<input type="checkbox"/> Debris (branches, litter, garbage, etc.)						
	<input type="checkbox"/> Excessive Siltation						



APPENDIX F

Municipal Owned Facilities Map



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August 4, 2022



STORMWATER MANAGEMENT PROGRAM EMPLOYEE TRAINING PROGRAM



Prepared For:

New Hanover Township

2943 North Charlotte Street
Gilbertsville, PA 19525
Montgomery County, Pennsylvania

Prepared By:



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Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.

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APPENDICES

APPENDIX A - Training and Education Tracking Sheet

1. INTRODUCTION

New Hanover Township has developed an Employee Training Program that focuses on educating Township employees as part of the Township Stormwater Management Program. The Employee Training Program was developed to further the goal of preventing or reducing the discharge of pollutants from municipal operations to the regulated Municipal Separate Storm Sewer System (MS4). The Employee Training Program is designed to comply with New Hanover Township's National Pollution Discharge Elimination System – Municipal Separate Storm Sewer System (NPDES MS4) Individual Permit No. PAG130020 issued by the Pennsylvania Department of Environmental Protection (PA DEP). More specifically, it will meet the measurable goals and criteria outlined in Minimum Control Measure (MCM) No. 6 – Pollution Prevention/Good Housekeeping – Best Management Practice (BMP) #3 of the NPDES MS4 permit.

2. TARGET AUDIENCE GROUPS

Education and training are important to help prevent stormwater pollution. New Hanover Township has developed procedures for the education and training of all relevant employees and contractors including the three (3) main target audiences employed with the Township:

- Public works staff
- Police and fire departments
- Administration

3. TRAINERS

The trainings may be conducted by New Hanover Township staff or outside personnel, depending on the nature of the topics covered. The person(s) conducting the trainings must be familiar with the NPDES MS4 permit requirements, along with the regular activities of the Township. The trainer's ability to contextualize the information to New Hanover Township will increase its applicability and aid in information retention for all trainees.



4. FREQUENCY

The trainings should be held at least annually. A higher frequency of trainings is recommended in order to heighten the awareness of stormwater management all year-round. Additional smaller trainings can be worked in with existing trainings that the Township already does as a refresher. With new hires and seasonal employees, it is recommended to implement employee training throughout the year strategically.

5. DOCUMENTATION

Each training must be documented in writing to be reported in the Annual MS4 Status Reports. **Appendix A** provides a training and education tracking sheet for record keeping. Documentation of trainings is important in order to demonstrate that the trainings officially occurred. In the event of an audit from the United States Environmental Protection Agency (USEPA) or an inspection by PA DEP, the Township must present this documentation to support the training requirements of the permit.

Table 1: Documentation Requirements

Documentation Items	✓ Date of the training
	✓ Attendee name(s)
	✓ Training presenter(s)
	✓ Topic(s) covered
	✓ Handouts (if applicable)

6. LOCATION

Trainings may be held at the Township building, on-site/in the field, at the wastewater treatment plant, or whichever is most appropriate for the topics that are covered. A classroom setting may be the ideal place to begin a training session, as it would allow for the easy distribution of NPDES MS4 permit information, background, and context in a controlled setting. Incorporation of a field component to supplement the classroom information would be valuable, as it would engage the trainees and allow them to actively participate in and practice what they have learned or reviewed. Trainings may also be virtual or recorded webinars depending on the topic. Refer to **Table 2** for suggestions.

7. TOPICS

Training topics will be tailored to each of the three (3) Township target audiences, but each will generally focus on topics such as: how stormwater pollution can be prevented or reduced with operation, inspection, maintenance, and repair activities associated with the municipal operations and facilities. The Township holds various in-house trainings on a variety of topics for each department on an annual basis. The Township can mesh MS4 training information into these existing training opportunities. Specific staff training topics for the three (3) Township target audiences (Public Works, Police, and Administration) may include the following.

7.1 Public Works

The Township public works staff are directly involved in the operations and maintenance of the Township MS4 infrastructure, sanitary sewer system, parks and recreational facilities, equipment repair, and property

maintenance. This target audience is the most directly applicable to the goals of the MS4 program. Public works-specific training topics may include:

- Recognizing, reporting, and locating the source of illicit dumping into the Township stormwater conveyance system;
- Identification and removal procedures for yard waste dumping in and adjacent to streams and the Township stormwater conveyance system;
- Proper disposal of waste removed during stormwater facility maintenance;
- Proper handling, storage, and disposal of hazardous materials;
- Vehicle and equipment washing techniques; and
- What to do in the event of a spill.



7.2 Police

The police department staff are often out and about in the Township, are first responders to incidents, and have a mission to keep the Township safe. This target audience consists of a large portion of Township staff that already receives annual training, which can be supplemented with MS4 topics. Police department staff-specific training topics may include:

- Recognizing, reporting, and locating the source of illicit dumping into the Township stormwater conveyance system.
- What to do in the event of a spill; and
- The basics of the MS4 permit.

7.3 Administration

The Township administrative department consists of all office staff at each of the Township -owned buildings. It is important to train administrative staff because of their consistent interactions with the public. Administration staff-specific training topics may include:

- Recognizing and reporting illicit dumping into the Township stormwater conveyance system; and
- The basics of the MS4 permit.

Table 2: Potential Field Training Locations

Training Locations	Suggested Training Activities
BMPs (i.e., basins)	Conduct mock inspections.
Municipal Facilities	Conduct mock inspections.
Residential Neighborhoods (i.e., inlets)	Walk around and discuss and/or locate potential sources of illicit discharge.
Outfalls	Conduct mock outfall field screening.

Each of the training topics listed above will identify:

- The individual responsible for implementation and oversight of the activities;
- The Department or group conducting the activities;
- Methods to be used to measure compliance;
- Records that must be maintained; and
- Whom to report activities and submit tracking records.

New Township employees should be trained on reporting protocols and forms, and current applicable technologies, including GIS applications. Existing staff should receive annual refreshers on reporting procedures and the software to ensure consistent and uniform documentation within the Township. Refer to **Table 3** below for a combined list of training topics for all.

Table 3: Training Topics

Pollution Prevention & Reduction Topics	
<ul style="list-style-type: none"> • Street sweeping. • Snow removal/de-icing. • Lawns/ground 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. 	<ul style="list-style-type: none"> • Streets, roads, highways, parking lots, maintenance and storage yards, waste transfer stations, parks, fleet or maintenance shops, wastewater treatment plants, stormwater conveyances, riparian buffers, and stormwater storage or treatment units. • Illicit discharge detection and elimination. • Construction sites. • Hazardous materials. • Ordinance requirements. • Material transfer operations.

8. ANNUAL GOALS

The Township aims to provide that all current and incoming municipal employees are introduced to the NPDES MS4 permit requirements and the numerous municipal activities that contribute to the Township’s compliance. All applicable trainees must be trained annually, and all applicable topics mentioned above must be covered.

9. ANNUAL REPORTING AND ACCOMPLISHMENTS

The Township is required to submit Annual MS4 Status Reports to PA DEP by September 30th each year. These reports are available to the public by request at the Township building. Employee Training Program accomplishments will be reported in the Annual MS4 Status Reports.



APPENDIX A

Training and Education Tracking Sheet



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

P: 610-705-4500 E: info@CedarvilleEng.com

CedarvilleEng.com



Training and Education Tracking Sheet

Seminar Date: _____
Seminar Location: _____
Instructor Name(s): _____
Instructor Affiliation: _____

Seminar Time: _____
Topics Covered: _____

Name & Title of Public Works Employees

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Annual MS4 Status Report

APPENDIX F

MS4 Infrastructure Map

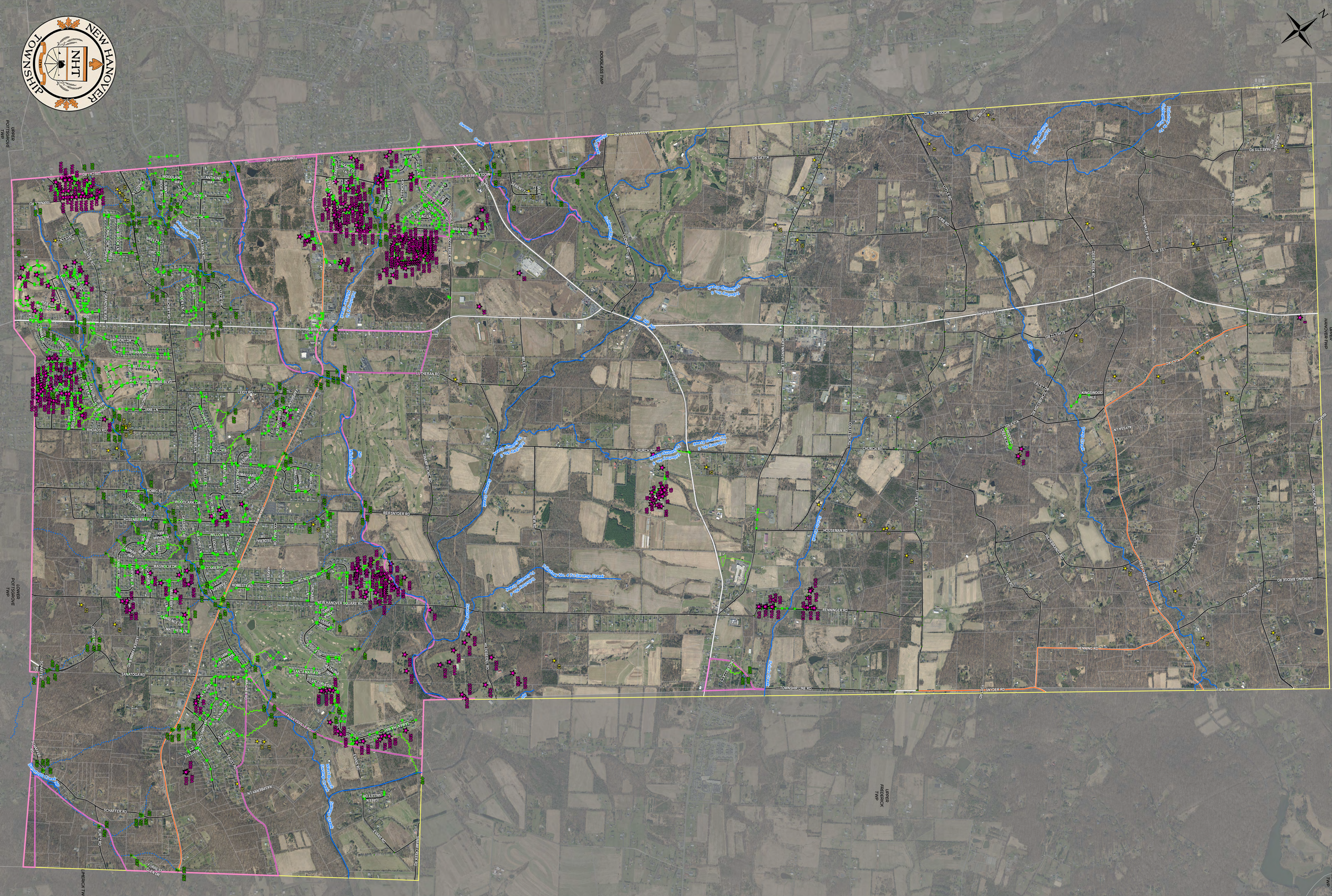


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CedarvilleEng.com



Legend	
	PCSN BMP
	LTAC BMP
	Observation Points
	Outfalls
	Stormwater Structures
	Culvert
	Inflow
	Inlet
	Manhole
	Outflow
	Stormwater Conveyances
	Culvert
	Pipe
	Swale
	Urbanized Area 2010
	Located Tributaries
	Streams
	Township Boundary
	Parcels
	Township Road
	County Road
	State Road
	Private Road
	Municipal Boundaries

NEW HANOVER TOWNSHIP

MS4 INFRASTRUCTURE MAP

MONTGOMERY COUNTY, PA

NOTES:

1. Parcels provided by the County (2022)
2. Road centerlines provided by the County (2022)

DISCLAIMER:

This product is for informational purposes only and is not intended to be used as a basis for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to verify the accuracy of the information displayed for general planning purposes. It may not be accurate and is not legal or definitive.

DRAWN BY: WH

DATE: 8/31/2022

1 inch = 800 Feet

0 400 800 1600 US Feet

MS4 INVENTORY

DATE: 8/31/2022

1 inch = 800 Feet

0 400 800 1600 US Feet