COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

# ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

## FOR THE PERIOD July 1, 2019 TO JUNE 30, 2020

| GENERAL INFORMATION | | | |
|---|---|---|---|
| Permittee Name: | Londonderry Township | NPDES Permit No.: | PAG133547 |
| Mailing Address: | 783 South Geyers Church Road | Effective Date: | 7/1/18 |
| City, State, Zip: | Middletown, PA 17057 | Expiration Date: | 6/30/2023 |
| MS4 Contact Person: | Monique Dykman | Renewal Due Date: | 1/30/2023 |
| Title: | MS4 Environmental Specailist | Municipality: | Londonderry Township |
| Phone: | 717-461-0027 | County: | Dauphin |
| Email: | MDykman@londonderrypa.org | | |

Co-Permittees (if applicable):

Appendix(ces) that permittee is subject to (select all that apply):

☐ Appendix A ☐ Appendix B ☐ Appendix C ☒ Appendix D ☒ Appendix E ☐ Appendix F

## WATER QUALITY INFORMATION

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

Identify all surface waters that receive stormwater discharges from the permittee's MS4 and provide the requested information (see instructions).

| Receiving Water Name | Ch. 93 Class. | Impaired? | Cause(s) | TMDL? | WLA? |
|---|---|---|---|---|---|
| See attached Appendix A Water Quality | | | | | |
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## 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 | Londonderry Township | Moniqe Dykman | 717-461-0027 |
| #2 Public Involvement/Participation | Londonderry Township | Moniqe Dykman | 717-461-0027 |
| #3 Illicit Discharge Detection and Elimination (IDD&E) | Londonderry Township | Moniqe Dykman | 717-461-0027 |
| #4 Construction Site Storm Water Runoff Control | Dauphin County Conservation District | Robert Christoff | 717-921-8100 |
| #5 Post-Construction Storm Water Management in New Development and Redevelopment | Dauphin County Conservation District | Robert Christoff | 717-921-8100 |
| #6 Pollution Prevention / Good Housekeeping | Londonderry Township | Moniqe Dykman | 717-461-0027 |

## 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: 5/13/2020 Were updates made? ☒ Yes ☐ No

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

   See attached Appendix B MCM#1 (Figure 1)

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:

   Future plans and golas will follow objectives set in the BMP manual for pervious permits, see Attached Appendix B MCM #1 (Figure 1). Some of the planned 2020 outreach events were canceled due to COVID-19. Londonderry moved as many resources and events online, as possible. We will continue to adapt as COVID-19 continues to effect our program.

**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: 5/15/20 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: 5/18/2020 Were updates made? ☒ Yes ☐ No

3. Do you have a municipal website? ☒ Yes ☐ No (URL: www.londonderrypa.org)

If Yes, what MS4-related material does it contain?
Website contains information on a variety of topics; including all MCms. See attached Appendix B MCM#1 )figure 2). Recently added a resource for resturaunts

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:
Additional information was provided via workshops, newsletters and bulliten boards. See attached Appendix B MCM 1 (Figures 2&3)

5. Identify specific plans for the publication of stormwater materials for the upcoming year:
Future plans and goals will follow goals set in the BMP Manual for previous permits. See Attached Appendix B MCM 1 (Figure 1). Some events will be post phoned or altered due to COVID19.

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

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

Additional information was provided via workshops, newsletters, bulliten boards, etc. See attached Appendix B MCM 1 Figure 2 & 3

**MCM #1 Comments:**

Sll supporting documents are attached as Appendix B MCM 1

## MCM #2 – PUBLIC INVOLVEMENT/PARTICIPATION

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

1. For new permittees only, was the PIPP developed and implemented within one year of permit coverage?

☐ Yes ☐ No

2. Date of latest annual review of PIPP: 7/30/2020 Were updates made? ☒ Yes ☐ No

**BMP #2: Advertise to the public and solicit public input on ordinances, SOPs, Pollutant Reduction Plans (PRPs) (if applicable) and TMDL Plans (if applicable), including modifications thereto, prior to adoption or submission to DEP:**

1. Was an MS4-related ordinance, SOP, PRP or TMDL Plan developed during the reporting period? ☐ Yes ☒ No

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

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 |
|---|---|---|---|
| | | | |

| | | | |
|---|---|---|---|
| | | | |

**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: MS4 Environmental Specialist attends Board of Supervisors meetings monthly and gives updates. See attached Appendix C MCM#2 (Figure 1).

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 partnered with a variety of local organizations to discuss opportunities. See attached Appendix C MCM #2 (figure 2).

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.

   The Township and partnering organizaitons held 2 events to enage the public. See attached Appendix C MCM #2 (Figure 3).

**MCM #2 Comments:**

All supporting documents are attached as Appendix C MCM#2

## 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: 7/25/2019 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): 3/23/17

3. Total No. of Outfalls in MS4: 46 Total No. of Outfalls Mapped: 284

4. Total No. of Observation Points: 0 Total No. of Observation Points Mapped: 0

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): ????

**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? 9

2. Indicate the percentage of all outfalls screened in the past five years. 34%

3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: 44%

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: 12/6/2010

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 |
|---|---|---|---|
| See attached Appendix D MCM#3 (Figure 2) | | | |
| | | | |
| | | | |

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? Information regarding IDD&E was included in the Township Newsletter, Website, etc. See Appendix B MCM #1 (Figure 2)

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:**

All supporting documentation can be found in Appendix C MCm #3.

## 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: 12/6/2010

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: 4

**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: 13

**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: 0

**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:

Outreach through the Conservation District.

**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: 2

**MCM #4 Comments:**

Memorandum of Understanding with Dauphin County Conservation District, see attached Appendix E MCM#4 (Figure 2).

## 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: 12/06/2010

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: 16/06/2010

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 | See attached Appendix F MCM #5 (Figure 2) | | | ° ' " | ° ' " | | | |
| 2 | | | | ° ' " | ° ' " | | | |
| 3 | | | | ° ' " | ° ' " | | | |
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| 6 | | | | ° ' " | ° ' " | | | |
| 7 | | | | ° ' " | ° ' " | | | |
| 8 | | | | ° ' " | ° ' " | | | |
| 9 | | | | ° ' " | ° ' " | | | |
| 10 | | | | ° ' " | ° ' " | | | |
| 11 | | | | ° ' " | ° ' " | | | |
| 12 | | | | ° ' " | ° ' " | | | |
| 13 | | | | ° ' " | ° ' " | | | |
| 14 | | | | ° ' " | ° ' " | | | |
| 15 | | | | ° ' " | ° ' " | | | |
| 16 | | | | ° ' " | ° ' " | | | |

**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:**

All supporting documentation can be found in Appendix F MCM#5.

## 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 permitee that have the potential to generate stormwater runoff into the MS4? ☒ Yes ☐ No

2. When was the inventory last reviewed? 6/14/19

3. When was it last updated? 3/6/16

**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: 9/12/18

**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: 8/01/2019 Date of latest training: 8/22/2019

3. Training topics covered:

   See attached Appendix G MCM#6 (Figure 1&2)

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

   See attached Appendix G MCM#6 (Figure 1&2)

5. Names of training attendees:

   See attached Appendix G MCM#6 (Figure 1&2)

**MCM #6 Comments:**

All supporting documentation can be found in Appendix G MCM#6.

## 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) | 9/13/17 | ☐ | 9/30/23 |
| Source Inventory | 9/18/20 | ☒ | |
| Investigation of Suspected Sources | | ☐ | 9/30/22 |
| Ordinance/SOP for Controlling Animal Wastes | | ☐ | n/a |

**PCM Comments:**

See separate PDF for PCM Source Ineventory. Storm sewershed map revisions are being reporcessed after upcoming land development which is slated to be finshed before the new permit term.

## 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 |
|---|---|---|---|
| ☐ Chesapeake Bay PRP (Appendix D) | | | Chesapeake Bay |
| ☐ Impaired Waters PRP (Appendix E) | | | |
| ☐ TMDL Plan (Appendix F) | | | |
| ☒ Combined Chesapeake Bay / Impaired Waters PRP | 9/15/17 | 4/6/18 | Chesapeake Bay, Conewago Creek, Swatara Creek |
| ☐ 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: Mount Joy Township

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) |
|---|---|---|---|
| ☐ Chesapeake Bay PRP (Appendix D) | | | |
| ☐ Impaired Waters PRP (Appendix E) | | | |
| ☐ TMDL Plan (Appendix F) | | | |
| ☐ Combined Chesapeake Bay / Impaired Waters PRP | 40,377 | | |
| ☐ Combined PRP / TMDL Plan | | | |

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: ??

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.

   9/30/23

5. Summary of progress achieved during reporting period.

   Continue to seek funding, build relationships with landowners and finalize design plans.
   Applied for Permits:
   Nationwide 27 PCN (Pre-Construction Notification) via Army Corps
   Clean water Act and Waiver 16/E&S VIA DEP Chapter 105

6. Anticipated activities for next reporting period.

   Begin Phase 1 construction in Spring 2021, pending permit approvals. Pending funding approval: Phase 2 in 2022, and Phase 3 in 2023.

**PRP/TMDL Plan Comments:**

During CBPRP preperation, a presumptive approach was taken in which it was assumed that once 10% sediment load reduction was achieved, the corresponding required nutrient load reductions would laso be achieved. Therefore the pollutant load reduction requirements for TP and TN were not calculated.

## 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | ° ' " | ° ' " | | ☐ | ☐ | |
| | | | | | | ° ' " | ° ' " | | ☐ | ☐ | |
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## 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 Inspect -ion | Satis-factory? |
|---|---|---|---|---|---|---|---|---|---|---|---|
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## 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).

| | |
|---|---|
| Monique Dykman | Monique Dykman |
| Name of Responsible Official | Signature |
| 717-461-0027 | 9/29/2020 |
| Telephone No. | Date |

# Londonderry Township

## Dauphin County

Annual Report 2019-2020

PAG-13 Permit # PAG133547

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## Appendix A – Water Quality

| Receiving Water Name | Ch. 93 Class | Impaired? | Cause(s) | TMDL? | WLA? |
|---|---|---|---|---|---|
| Susquehanna River | WWF, MF | Yes | PCB | No | No |
| Swatara Creek | WWF, MF | No | | No | No |
| Conewago Creek | TSF, MF | Yes | Nutrients | Yes | No |
| Iron Run | WWF, MF | Yes | Siltation | No | No |
| Lynch Run | TSF, MF | Yes | Siltation | Nyes | No |
| UNT 09364 to Swatara Creek | WWF, MF | No | | No | No |
| UNT 09235 to Lynch Run | TSF, MF | Yes | Unknown | Yes | No |
| UNT 09374 to Iron Run | WWF, MF | No | | No | No |
| UNT 09375 to Swatara Creek | WWF, MF | No | | No | No |
| UNT 09375 to Swatara Creek | WWF, MF | Yes | Siltation | No | No |
| UNT 09243 to Conewago Creek | TSF, MF | Yes | Suspended Solids | Yes | No |

## Appendix B – MCM #1

**Londonderry Township**

*MCM # 1: Public Education and Outreach on Stormwater Impacts*

- ***BMP 1:*** *Develop, implement, and maintain a written Public Education and Outreach Program (PEOP).*
- ***BMP 2:*** *Develop and maintain lists of target audience groups; including schools, businesses in urbanized areas, residents, farmers and municipal employees.*
- ***BMP 3:*** *Publish public outreach campaigns including but not limited to; posters, pamphlets, web-publishing will be updated quarterly, or as necessary.*
- ***BMP 4:*** *Distribute stormwater educational materials and information marketing to the target audiences.*

### PEOP

Londonderry Township, Dauphin County, PA is a Township of approximately 5,200 residents that has decided to conduct a general outreach campaign using the bi-annual newsletter and other outreach materials to reach the majority of their residents. The Township has also identified other key areas to focus attention; including school aged children, local business owners, farmers, and other campaign materials like posters. Londonderry Township proposes the following BMPs and measurable goals in order to best motivate the local community:

**Minimum Measure Objective:** The Township will educate the general public by making about 10,000 impressions per year with a storm water quality message via print, web publishing, or other appropriate media. Using the Delaware DOT as a reference the goal is to reach 2 impressions per person per year (2 impressions/year **x** 5,200 residents ≈ 10,000 impressions).

- ***BMP 1:*** *Develop, implement, and maintain a written Public Education and Outreach Program (PEOP)*
    - **Measurable Goal:** Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents.
        - The township will publish stormwater articles in the spring and fall newsletters and continually update the environmental section of its website with information regarding: stormwater BMPs, stormwater management for homeowners, volunteer opportunities, and illicit discharge detection.
        - The website contains a link for users to report a stormwater concern and additional education links to organizations such as Stormwater PA, Chesapeake Bay Foundation, Alliance for the Chesapeake Bay, Center for Watershed Protection, DEP, and EPA.
        - The township will update its Facebook page monthly, with information regarding stormwater management for homeowners, volunteer opportunities, and illicit discharge detection.
        - The Township will present stormwater education material monthly, at each Board of Supervisors meeting. These presentations will address what the Environmental Department is currently working on and any volunteer opportunities for residents. During the summer of the current permit year, a public stormwater awareness meeting will be held at the Board of Supervisors meeting. The presentation will address general stormwater management concepts, the Township's MS4 program, and the MS4 permit.
        - The Township will provide yearly education to BOS, office staff, Public Works and Golf Course employees (See MCM #6).
        - The Township will post information regarding projects, stormwater BMPs, illicit discharge reporting, and stormwater management information at Sunset Park and Sunset Golf Course. Posters will be affixed to each of the three pavilions, snack bar, and on the sign at the entrance of the walking trail. Posters will also be affixed on the front and back doors of the Sunset Golf Course Clubhouse. The posters will be updated quarterly.
        - The Township will utilize table space in its meeting room to provide visitors with stormwater management pamphlets and flyers.

        - The Township will utilize a bulletin board in the central hallway to provide visitors with stormwater management education and information. This information will be updated annually.

    - **Accountability:** Using Google analytics to measure hits to the environmental portion of the Township website, the Township can ascertain number of impressions made using this media. Additionally, the Township will monitor Facebook interactions on stormwater content. The Township will monitor how many citizens reach out with stormwater concerns, a result of stormwater education.

- ***BMP 2:*** *Develop and maintain lists of target audience groups; including schools, businesses in urbanized areas, residents and municipal employees.*

    - ***See chart "Target Audience" in this section for specifics on Londonderry's Target Audience.***

    - ***Schools:*** During the school year, the Township will collaborate with the Londonderry Elementary School to host an Earth Day celebration (in conjunction with Earth Week) to educate students (targeting grades 3-5) about water pollution and conservation that will culminate with an action project.

        - **Accountability:** Educating school children on storm water and water quality practices, including water conservation measures, will help promote better public awareness. Londonderry Township wants to encourage youth to participate, educate, and support their local community. Londonderry's youth outreach program also receives guidance and assistance from Penn State Extension and the 4H "Stream Teams" program. The Township maintains lesson plans from previous environmental programs in order to continue to expand and improve these presentations.

    - **Businesses in urbanized areas**: Outreach materials on proper stormwater management practices for businesses will be sent out during the third quarter of the current permit year (Nov-January).

        - The Township has stormwater education materials available for construction permit applicants such as developers, construction managers, residents, and contractors.

        - The Township will send an environmental questionnaire with the annual Junk Yard Permit applications. The questionnaire allows the department to evaluate the permittees knowledge of stormwater management. An MS4 representative from the Township will accompany the Codes and Zoning Officer to inspect each junk yard property. Any violations/suggestions will be noted. An informational

sheet regarding junk yard best practices for stormwater management will be provided to permit applicants on the day of inspection.

- **Accountability:** Local business operations, especially auto repair and junk yards, have been identified as a significant contributor of oil and grease into the MS4 system. The targeted education campaign will make local business owners aware of proper disposal and recycling practices for oil and grease, and inform them of potential fines for illegal dumping into the MS4. In addition, informing permit applicants of regulations within the MS4 will help prevent illicit discharge and other prohibited activities.

- ***Local farmers:*** Outreach on proper storm water management practices for Township farmers will be conducted by providing advertising for resources on the website and Facebook. The Township will work with partner organizations to host Farmer's Field Day's to educate farmers on better practices such as BMPs for farming around waterways, cover cropping, no-till farming, reduced use of pesticide applications, etc. The Township plans to invite PSU Extension (to incentivize the event with possible pesticide credits), seed companies, equipment retailers, and organic farmers (Rodale Institute).

  - **Accountability:** The Township can directly use these materials to educate and inform the public, particularly farmers about the MS4 program. Outreach material can be disseminated at various events, such as the Farmer's Field Day.

- Residents: See BMP 3

- Municipal employees: See MCM #6 BMP 3

- ***BMP 3:*** *Other public outreach campaigns including but not limited to; newsletter, posters, pamphlets, Facebook, website will be updated quarterly, or as necessary.*

  - **Measurable Goal:** The Township will produce and distribute educational materials via newsletters, posters, pamphlets and online via Facebook and the township website. Information includes but is not limited to:

    - Stormwater issues
    - Stormwater Best Management Practices
    - Important phone numbers and information on reporting illicit discharge.
    - And other environmental issues and solutions, when possible

- These materials can be used at Township events, golf course events, Sunset Park events, and other gatherings within the Township to increase exposure to this issue. In addition, the Township will distribute these outreach materials to permit applicants and target audiences. All outreach materials are located in Appendix B MCM #1 (Figure 1) through (Figure 3).
    - **Accountability:** By having material to pass out and available at different locations, the Township can utilize different techniques in their Targeted Education Campaign. The Township will emphasize distributing educational materials to construction permit applicants, agriculture groups, businesses, schools, and local residents. The Targeted Education Campaign will make local groups aware of illegal practices and inform them of potential fines for not following proper procedures.

- ***BMP 4:*** *Distribute stormwater educational materials and information marketing to the target audiences.*
    - Londonderry will specifically target previously referenced audiences;
        - ***Schools:*** *As part of the Earth Day celebration, Londonderry Township will distribute informational material to be taken home to parents.*
        - **Businesses in Urbanized Areas**: Outreach materials on proper stormwater management practices for businesses will be sent out during the third quarter of the current permit year (November-January).
        - ***Local Farmers:*** Outreach material on proper storm water management practices for Township farmers distributed to property owners utilizing land for farm space. The Township will host a Farmer's Field Day in conjunction with Partner Organizations.

*Updated to reflect current Township programs and abilities 5/13/2020.*

*Updated to better align with permit requirements 7/25/2019.*

*Updated to reflect current Township programs and abilities 5/2/2019.*

## Target Audience

Updated 5/29/2019

| Urbanized Area | Business | Address | Phone |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Iron Run | Ridge Run Tavern | 4620 Ridge Rd, Elizabethtown, PA, 17022 | (717) 944-6445 |
| Iron Run | Noah F Boyle Cabinets | 3043 Steinruck Rd, Elizabethtown, PA 17022 | (717) 944-1007 |
| Vine St | Love's Travel Stop | 3555 Vine St, Middletown, PA 17057 | (717) 948-1840 |
| Vine St | Bureau of Topographic and Geologic Surveys | 3240 Schoolhouse Rd, Middletown, PA 17057 | (717) 702-2017 |
| Vine St | Lesher Natural Stone, Quartz and Tile | 2400 Swatara Creek Rd, Middletown, PA 17057 | (717) 944-4431 |
| 283 Corridor | Fountain of Life Ministries | Middletown, PA 17057 | (717) 944-4455 |
| 283 Corridor | Discover Kids Childcare Center | 290 Lauffer Rd, Middletown, PA 17057 | (717) 944-1599 |
| 283 Corridor | Hidden Pines Farm, LLC | 510 Lauffer Rd, Middletown, PA 17057 | (717) 648-6036 |
| 283 Corridor | Heiser Automotive, Inc | 515 Iron Mine Rd, Middletown, PA 17057 | (717) 388-1576 |
| 283 Corridor | Mulhollemes Taxidermy | 149 Colebrook Rd, Middletown, PA 17057 | (717) 979-5119 |
| 283 Corridor | Ads Machine Shop | 189 Iron Mine Rd, Middletown, PA 17057 | (717) 944-9781 |
| 283 Corridor | Doc's Family Fun Center | 1733 E Harrisburg Pike, Middletown, PA 17057 | (717) 944-7866 |
| 283 Corridor | Stoney Lawn Farms | 1597 Colebrook Rd, Middletown, PA 17057 | (717) 616-8798 |
| 283 Corridor | Zach Engineering (Auto Repair Shop) | 1105 Colebrook Rd, Middletown, PA 17057 | (717) 544-0147 |
| 283 Corridor | Mike Miata Parts | 2101 E Harrisburg Pike, | (717) 940-3305 |

| | | | |
|---|---|---|---|
| | | Middletown, PA 17057 | |
| 283 Corridor | Formula 101 | 2203 E Harrisburg Pike, Middletown, PA 17057 | (888) 367-6852 |
| 283 Corridor | Riverhouse Bar and Grill | 2495 E Harrisburg Pike, Middletown, PA 17057 | (717) 930-8700 |
| 283 Corridor | Longs Welding | 90 S Geyers Church Rd, Middletown, PA 17057 | (717) 944-5150 |
| 283 Corridor | Hemlock Bait Shop | 2700 E Harrisburg Pike, Middletown, PA 17057 | |
| 283 Corridor | Vermeer Sales and Services | 2888 E Harrisburg Pike, Middletown, PA 17057 | 717) 930-8780 |
| 283 Corridor | TLC Quilting | 2900 E Harrisburg Pike, Middletown, PA 17057 | (717) 979-4374 |
| 283 Corridor | Swatara Hill Church-Brethren | Middletown, PA 17057 | (717) 944-3331 |
| 283 Corridor | Rocky Ridge Farm | 2997 E Harrisburg Pike, Middletown, PA 17057 | (717) 944-2362 |
| 283 Corridor | ER Lighty Co. | 3069 E Harrisburg Pike, Middletown, PA 17057 | (717) 944-0132 |
| 283 Corridor | Frank's Foreign Cars | 2777 E Harrisburg Pike, Middletown, PA 17057 | (717) 944-2757 |
| 283 Corridor | Top Star | 2826 E Harrisburg Pike, Middletown, PA 17057 | (717) 944-6350 |
| 283 Corridor | Londonderry Fire Co. | 2655 Foxianna Rd, Middletown, PA 17057 | (717) 944-2175 |
| 283 Corridor | Middletown Auto X-Change | 2857 E Harrisburg Pike, Middletown, PA 17057 | (717) 944-2886 |
| 283 Corridor | Evangelical Center for | 3193 E Harrisburg Pike, | (717) 314-2864 |

| | | | |
|---|---|---|---|
| | Revival | Middletown, PA 17057 | |
| 283 Corridor | Staley's Repair Shop | 90 S Geyers Church Rd, Middletown, PA 17057 | (717) 944-7377 |
| 283 Corridor | JTM Alignment | 1754 Felker Rd, Middletown, PA 17057 | (717) 944-5463 |
| 283 Corridor | Londonderry Township Building | 783 S Geyers Church Rd, Middletown, PA 17057 | (717) 944-1803 |
| Conewago Creek | Hobby House Retreat | 845 Locust Grove Rd, Middletown, PA 17057 | (717) 944-1125 |
| Conewago Creek | Armstrong Hardwood Products | 400 1st St, Middletown, PA 17057 | (717) 944-6480 |
| Conewago Creek | Tool Shed | 4294 E Harrisburg Pike, Middletown, PA 17057 | (717) 944-0318 |
| Conewago Creek | Truck Mounts Unlimited | 4190 E Harrisburg Pike, Middletown, PA 17057 | (717) 939-8320 |
| Conewago Creek | Geyers Garage | 4801 E Harrisburg Pike, Middletown, PA 17057 | (717) 944-3973 |
| Conewago Creek | Church of Christ | 4806 E Harrisburg Pike, Elizabethtown, PA 17022 | (717) 367-8211 |
| Conewago Creek | E & S Tag and Notary | 89 Florence Drive, Elizabethtown, PA 17022 | (717) 367-1727 |
| Conewago Creek | Cedar Manor | 94 Florence Drive, Elizabethtown, PA 17022 | (717) 367-1122 |
| Conewago Creek | Debs Homemade Pet Treats | 270 Michael St, Elizabethtown, PA 17022 | (717) 468-8942 |
| Conewago Creek | Xtreem Bike Works | 2820 N Market St, Elizabethtown, PA 17022 | (717) 429-6070 |
| Conewago | Expertise Auto Glass | 2820 N Market St, | (717)-367-0174 |

| | | | |
|---|---|---|---|
| Creek | Repair | Elizabethtown, PA 17022 | |
| Conewago Creek | Dunn's Antique and Collectables | 2798-B N Market St, Elizabethtown, PA 17022 | (610) 413-4608 |
| Conewago Creek | KC's Collision Repair | 2750 N Market St, Elizabethtown, PA 17022 | (717) 361-7282 |
| Conewago Creek | Ed's Landscaping Inc. | 2623 N Market St, Elizabethtown, PA 17022 | (717) 367-1006 |
| Susquehanna River | Victory Fellowship Church | Middletown, PA 17057 | |
| Susquehanna River | Red Hill Market | 3949 River Rd, Middletown, PA 17057 | |
| Susquehanna River | PA Large Storage | 2912 River Rd, Middletown, PA 17057 | (717) 944-4709 |
| Susquehanna River | Tri-County Boat Club | 2229 River Rd, Middletown, PA 17057 | (717) 944-1411 |
| Susquehanna River | Earl & Dave's Scrap Co. | 1 Hollendale St, Middletown, PA 17057 | (717) 944-4823 |
| Susquehanna River | Royalton Recycling | 3 Hollendale St, Middletown, PA 17057 | (717) 944-4823 |

| **Park** | **Address** | **People** |
|---|---|---|
| Sunset Park | 2401 Sunset Dr., Middletown, PA 17057 | Families, Pavilion Renters, Trail Hikers |

| Golf Course | Address | Phone | People |
|---|---|---|---|
| Sunset Golf Course | 2601 Sunset Dr., Middletown, PA 17057 | (717) 944-5415 | Apprx 40,000 visitors/year |

| School | Address | Phone |
|---|---|---|
| Londonderry Elementary School | 260 Schoolhouse Rd, Middletown, PA 17057 | (717) 944-9462 |
| Lower Dauphin School District | 291 E Main St, Hummelstown, PA 17036 | (717) 566-5300 |

| Trailer Park | Owner | Address | Phone |
|---|---|---|---|
| Pine Manor & Cedar Manor | Dorothy Swartz, GSP Management Co. | 94 Florence Dr.,Elizabethtown, PA 17022 | (717) 367-1122 |
| Crestview | Jamie Werich | Crestview Village ,Middletown, PA 17057 | (717) 943-0056 |
| Stauffer Rentals | Tim Stauffer | 3652 E. Harrisburg Pike, Middletown, PA 17057 | (717) 821-2922 |
| Hi-Land | Tom Edwards | Middletown, PA 17057 | (717) 644-2174 |

## Appendix B MCM #1 (Figure 1)

Township Website

**Minimum Control Measures**

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)

# Stormwater Management & MS4

## What is Stormwater Runoff?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater runoff from naturally soaking into the ground.

## Why is Stormwater Runoff a Problem?

Stormwater can pick up debris, chemicals, dirt and other pollutants and flow into a storm sewer system or directly into a lake, stream, river, wetland, or costal water, untreated.

## What is MS4?

A Municipal Separate Storm Sewer System (MS4) is a conveyance or system of conveyances that is owned by a municipality, designed or used, to collect or convey stormwater.

## To learn more about Stormwater, follow the links below for external resources:

- How to Be Stormwater Smart by DEP
- The Homeowner's Guide to Storm Water by Penn State College of Agricultural Sciences
- Learn about NPDES (National Pollutant Discharge Elimination System) permits and the general MS4 Program
- Activity booklet for children to learn about stormwater

## To learn more about Londonderry Township's Stormwater Management Program explore the left hand navigation bar.

**Contact Us**

783 S. Geyers Church Rd.
Middletown, PA 17057

Ph: 717.944.1803
Fax: 717.944.1926

**Office Hours**
Monday – Friday
8:30am to 5:00pm

LONDONDERRY TOWNSHIP

783 South Geyers Church Road - Middletown, PA 17057 (717) 944-1803 FAX (717) 944-1926

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# Chesapeake Bay Pollution Reduction Plan

## Londonderry Township CBPRP

As of September 2017, Londonderry Township has completed the next step in the restoration effort of local water bodies and the Chesapeake Bay. This comes in the form of the Chesapeake Bay Pollution Reduction Plan (CBPRP), an unfunded DEP mandate to meet the Total Maximum Daily Load (TMDL) requirements set by the federal government.

This plan sets a 5-year goal, from DEP's approval of the CBPRP, to reduce pollution into our local waterways by installing Best Management Practices (BMPs). The township is required to reduce pollution caused from sediment by 10%, Phosphorus by 5%, and Nitrogen by 3%. It is assumed that by meeting the reduction in sediment pollution the phosphorus and nitrogen reductions will also be met, since these pollutants bind to soil particles. The current calculated sediment pollutant load (accounting for all previously installed BMPs) is 544,872 lbs/yr, meaning that the township is responsible for reducing this by 54,487 lbs/yr.

In order to meet these reduction goals, the township has developed a plan involving three projects for BMP implementation. The plans are preliminary and may change during the permit cycle if more feasible/cost effective projects are discovered. The current project list is made up of a stream restoration in the Conewago Creek (including two bioswales) and two detention basin retrofits. Between these three projects the calculated Load Reduction is 57,276 lbs/yr, slightly exceeding the required reduction for the 5-year permit. These projects are expected to cost around $290,000. Although implementation of CBPRP could be a significant cost to the Township, the municipal staff and public works departments are proactively looking for ways to achieve pollutant load reductions and pursue grant opportunities to reduce the overall cost of achieving the required load reductions.

A copy of the CBPRP is available at the township office for viewing.

CBPRP

CBPRP Case Study

# Public Education

## Effects of Stormwater Runoff

- Polluted stormwater runoff can have many adverse effects on plants, fish, animals, and people.
- Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.
- Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.
- Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.
- Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.
- Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.
- Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.

## Be the Solution to Runoff Pollution!

As stormwater flows over driveways, lawns, and sidewalks, it picks up debris, chemicals, dirt, and other pollutants. Stormwater can flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water. Polluted runoff is the nation's greatest threat to clean water.

By practicing healthy household habits, homeowners can keep common pollutants like pesticides, pet waste, grass clippings, and automotive fluids off the ground and out of stormwater. Adopt these healthy household habits and help protect lakes, streams, rivers, wetlands, and coastal waters. Remember to share the habits with your neighbors!

You can help by taking steps around the home to increase the amount of water that soaks into the ground. This reduces the amount of water flowing into the street. Here's how:

- Wash your car on the lawn (not the driveway), or take your car to a commercial car wash
- Plant lots of trees, shrubs, and ground cover
- Use a rain barrel to catch and store water for gardens
- Redirect down spouts from paved areas to vegetated areas
- Install gravel trenches along driveways and patios
- Use porous materials (i.e. wooden planks and bricks) for walkways and patios
- Grade driveway and walkways to direct water flow toward vegetated areas

**Download Londonderry Township's Plan for Public Education and Outreach**

### Minimum Control Measures

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)

LONDONDERRY TOWNSHIP

Boards & Committees | Parks & Recreation | Public Services | Resource Center | Zoning, Codes & Resolutions | Stormwater Management & MS4 | Contact Us

# Public Involvement

## Why Is Public Participation and Involvement Necessary?

The EPA believes that the public can provide valuable input and assistance to a regulated small MS4's municipal stormwater management program and, therefore, suggests that the public be given opportunities to play an active role in both the development and implementation of the program. An active and involved community is crucial to the success of a stormwater management program because it allows for:

- Broader public support since citizens who participate in the development and decision making process are partially responsible for the program and, therefore, may be less likely to raise legal challenges to the program and more likely to take an active role in its implementation;
- Shorter implementation schedules due to fewer obstacles in the form of public and legal challenges and increased sources in the form of citizen volunteers;
- A broader base of expertise and economic benefits since the community can be a valuable, and free, intellectual resource; and
- A conduit to other programs as citizens involved in the stormwater program development process provide important cross-connections and relationships with other community and government programs. This benefit is particularly valuable when trying to implement a stormwater program on a watershed basis, as encouraged by EPA.

**Volunteer Opportunities with Greening the Lower Susquehanna!**

**Download Londonderry Township's Plan for Public Involvement and Participation**

### Minimum Control Measures

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)

LONDONDERRY TOWNSHIP

Boards & Committees | Parks & Recreation | Public Services | Resource Center | Zoning, Codes & Resolutions | Stormwater Management & MS4 | Contact Us

# Illicit Discharge Detection & Elimination

## What is an Illicit Discharge?

An illicit discharge is an unlawful act of disposing, dumping, spilling, emitting, or other discharge of any substance other than stormwater into the stormwater drainage system. The stormwater drainage system includes streets, ditches, catch basins, yard inlets, lakes, and streams.

Illicit discharges cause water pollution by sending pollutants right into creeks, streams, ponds, and lakes. Be sure you know what illicit discharges are so you can help prevent water pollution and keep our streams clean!

Prevent water pollution. Call the Township to report an illicit discharge or any type of water pollution in our streams or stormwater inlets. In case of emergencies, call 911.

## Examples of Illicit Discharges

- Paint being poured into or near the storm drainage system
- Changing oil or antifreeze over or near a storm structure
- Washing vehicles where the runoff could drain into the storm drainage system
- Washing dumpster pads and allowing the runoff to drain into the storm drainage system

## What Information Should Be Given When Reporting a Suspected Illicit Discharge?

- **What is your name and best contact information?** This information is kept confidential and is only used if the Township requires additional information.
- **What time did you see the discharge?** It is important that illicit discharges are reported immediately so the person(s) responsible can be found and the discharge can be cleaned up and corrected as soon as possible. We want to respond as quickly as possible to prevent pollution to our environment.
- **Where did you see the discharge?** We'll need an address, intersection, business name, or landmark to help us quickly find the illicit discharge.
- **What do you think the discharge is?** Was it a paint spill, oil spill, sewer leak, or some another type of illicit discharge?

## Report A Spill

**Illicit Discharge Detection & Elimination**
783 S. Geyers Church Rd.
Middletown, PA 17057

Ph: 717-944-1803
Fax: 717.944.1926

**Office Hours**
Monday – Friday
8:30am to 5:00pm

**Download Londonderry Township's Plan for Illicit Discharge Detection and Elimination**

### Minimum Control Measures

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)

# From the MS4 Department

*Posted Monday, August 17, 2020*

## Restaurant's Guide to Stormwater Pollution & Prevention

For more information log on to:

https://www.londonderrypa.org/stormwater-illicit-discharge-detection-elimination.php#gsc.tab=0

Restaurant Outreach .pdf

Boards & Committees | Parks & Recreation | Public Services | Resource Center | Zoning, Codes & Resolutions | Stormwater Management & MS4 | Contact Us

# Construction

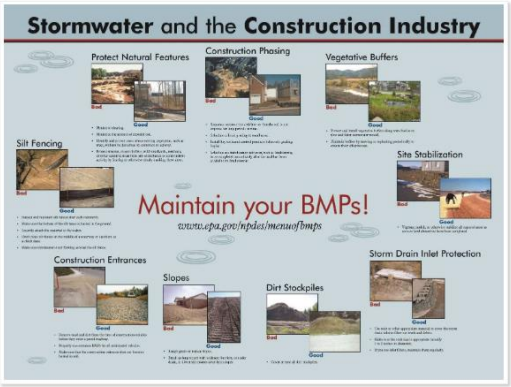
Uncontrolled stormwater runoff from construction sites can significantly impact our streams. Sediment in waterbodies from construction sites can reduce the amount of sunlight reaching aquatic plants, clog fish gills, smother aquatic habitat and spawning areas, and impede navigation.

In partnership with the Dauphin County Conservation District, and in association with our MS4 permit, Londonderry Township has a program to reduce pollutants in stormwater runoff to the MS4 for construction sites disturbing one or more acres.

We have developed measures to comply with our permit:

- An ordinance,
- Requirements to implement erosion and sediment control best management practices (BMPs),
- Requirements to control other waste at the construction site,
- Procedures for reviewing construction site plans,
- Procedures to receive and consider information submitted by the public, and
- Procedures for inspections and enforcement of stormwater requirements at construction sites.

Most types of construction require local permits, and construction sites disturbing one or more acres of land may require additional permits.




**Download Londonderry Township's Plan for Construction Site Runoff Control**

## Minimum Control Measures

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
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- Annual Report (~16mb)

Boards & Committees | Parks & Recreation | Public Services | Resource Center | Zoning, Codes & Resolutions | Stormwater Management & MS4 | Contact Us

# Post Construction

As areas are developed, the amount of paved surfaces increase leading to an increase in stormwater volume and pollutants, which can harm our streams.

The best way to mitigate stormwater impacts from new development is to use practices that treat, store, and infiltrate runoff onsite before it can affect water bodies downstream. Innovative site designs that reduce paved surfaces, or imperviousness, and other green infrastructure practices are excellent ways to reduce flows and improve water quality.

In partnership with the Dauphin County Conservation District, and in association with our MS4 permit, Londonderry Township has a program to address post-construction stormwater runoff from new development and redevelopments that disturb one or more acres.

The program includes:

- strategies to implement a combination of structural and non-structural BMPs,
- an ordinance to address post-construction runoff, and
- a program to ensure adequate long-term operation and maintenance of BMPs.

**Download Londonderry Township's Plan for Post-Construction Stormwater Management in New and Redevelopment**

### Rain Garden

### Constructed Wetland

### Detention Basin with Retention Area

### Infiltration Trench

### Minimum Control Measures

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
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Boards & Committees | Parks & Recreation | Public Services | Resource Center | Zoning, Codes & Resolutions | Stormwater Management & MS4 | Contact Us

# Pollution Prevention & Good Housekeeping

Preventing pollutants from entering a waterway is less expensive than restoring a waterway after it has been polluted. Therefore, Silver Spring Township first focuses on preventing pollution before it happens. BMPs under each of the minimum measures, but especially under this pollution prevention category, focus on preventing pollutants from contacting stormwater.

Municipal activities such as winter road maintenance, minor road repairs, and other infrastructure work, automobile fleet maintenance, landscaping and park maintenance, and building maintenance can release pollutants into MS4s that ultimately discharge to nearby waterbodies. Municipal facilities can also be sources of stormwater pollutants if BMPs are not in place to contain spills, manage trash, and handle non-stormwater discharges.

Cleaning storm drains can prevent pollutants from entering nearby waterways. Londonderry Township has staff trained to prevent and reduce stormwater pollution from activities like maintaining MS4 infrastructure and performing daily municipal activities.

This primarily includes:

- Developing inspection and maintenance procedures and schedules for stormwater BMPs
- Implementing BMPs to treat pollutants from transportation infrastructure, maintenance areas, storage yards, sand and salt storage areas
- Establishing procedures for properly disposing of pollutants removed from the MS4
- Identifying ways to incorporate water quality controls into new and existing flood management projects
- Developing a training program for all municipal staff involved in activities that could discharge pollutants to the MS4
- Developing standard operating procedures that incorporate stormwater BMPs for common municipal activities

**Download Londonderry Township's Plan for Pollution Prevention and Good Housekeeping for Municipal Operations**

### Minimum Control Measures

- CBPRP
- Public Education
- Public Involvement
- Illicit Discharge Detection & Elimination
- Construction
- Post-Construction
- Pollution Prevention & Good Housekeeping
- Stormwater Management Ordinance (SWMO)
- Annual Report (~16mb)

LONDONDERRY TOWNSHIP

783 South Geyers Church Road - Middletown, PA 17057 (717) 944-1803 FAX (717) 944-1926

## Appendix B MCM #1 (Figure 2)

### Outreach materials

**MCM #1: BMP #4 & 5 - Stormwater Education program for local residents & other public outreach campaigns**

LONDONDERRY TOWNSHIP

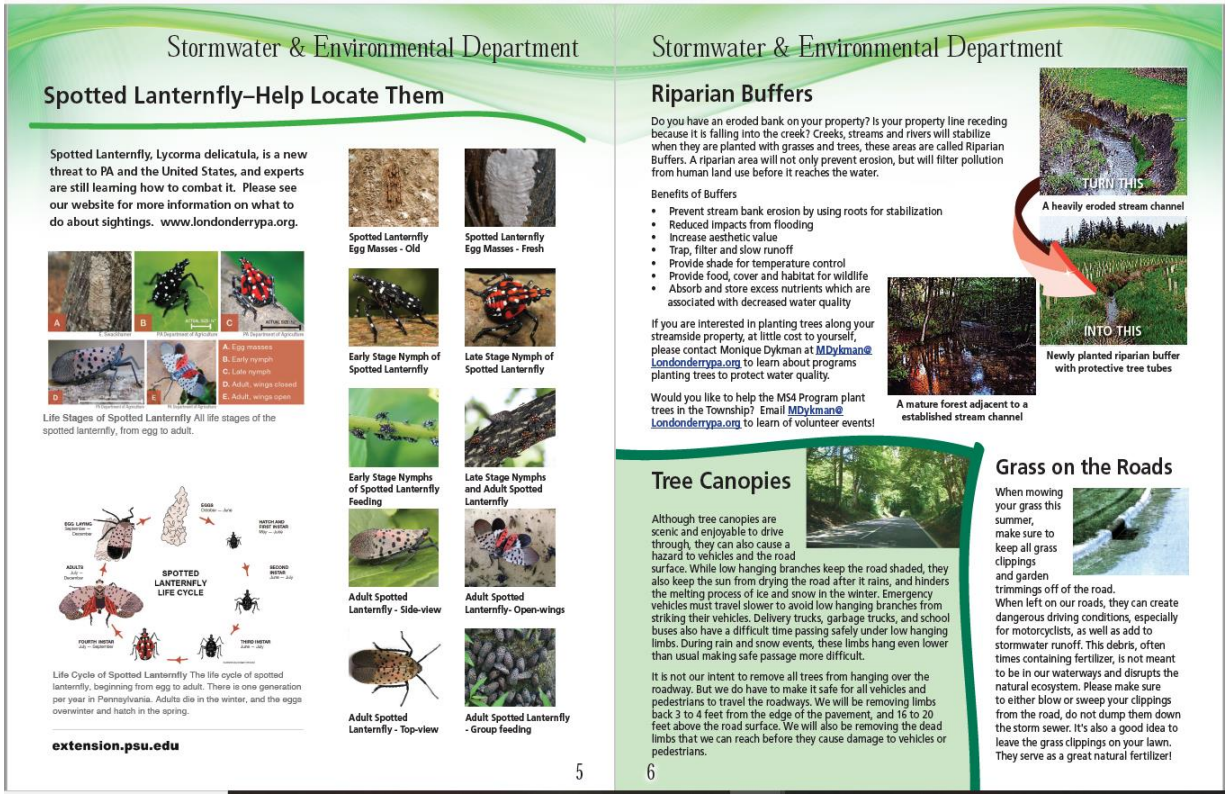
**EDUCATIONAL OUTREACH**

HRG Herbert, Rowland & Grubic, Inc. Engineering & Related Services

| Date | Name of material | Date Updated | Picture |
|---|---|---|---|
| Jul-19 | Sips for the Susquehana: beer for bees | | Attached |
| Fall | Newsletter | | Attached |
| 19-Dec | MS4 Ad through DCCD | | Attached |
| Spring | Newsletter | | Attached |
| 8/17/2019 | Facebook: Harmful Algae Blooms | | Attached |
| 11/26/2019 | Facebook: Heating Oil | | Attached |
| 8/21/2019 | Pool Water Discharge | | Attached |
| 12/17/2019 | participation in DCCD MS4 Newspaper ad | | Attached |

*Newsletters*

Spring 2020



Stormwater & Environmental Department

## Spotted Lanternfly–Help Locate Them

**Spotted Lanternfly, Lycorma delicatula, is a new threat to PA and the United States, and experts are still learning how to combat it. Please see our website for more information on what to do about sightings. www.londonderrypa.org.**

A. Egg masses
B. Early nymph
C. Late nymph
D. Adult, wings closed
E. Adult, wings open

**Life Stages of Spotted Lanternfly** All life stages of the spotted lanternfly, from egg to adult.

SPOTTED LANTERNFLY LIFE CYCLE

**Life Cycle of Spotted Lanternfly** The life cycle of spotted lanternfly, beginning from egg to adult. There is one generation per year in Pennsylvania. Adults die in the winter, and the eggs overwinter and hatch in the spring.

**extension.psu.edu**

**Spotted Lanternfly Egg Masses - Old**

**Spotted Lanternfly Egg Masses - Fresh**

**Early Stage Nymph of Spotted Lanternfly**

**Late Stage Nymph of Spotted Lanternfly**

**Early Stage Nymphs of Spotted Lanternfly Feeding**

**Late Stage Nymphs and Adult Spotted Lanternfly**

**Adult Spotted Lanternfly - Side-view**

**Adult Spotted Lanternfly- Open-wings**

**Adult Spotted Lanternfly - Top-view**

**Adult Spotted Lanternfly - Group feeding**

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Stormwater & Environmental Department

## Riparian Buffers

Do you have an eroded bank on your property? Is your property line receding because it is falling into the creek? Creeks, streams and rivers will stabilize when they are planted with grasses and trees, these areas are called Riparian Buffers. A riparian area will not only prevent erosion, but will filter pollution from human land use before it reaches the water.

Benefits of Buffers

- Prevent stream bank erosion by using roots for stabilization
- Reduced impacts from flooding
- Increase aesthetic value
- Trap, filter and slow runoff
- Provide shade for temperature control
- Provide food, cover and habitat for wildlife
- Absorb and store excess nutrients which are associated with decreased water quality

If you are interested in planting trees along your streamside property, at little cost to yourself, please contact Monique Dykman at MDykman@Londonderrypa.org to learn about programs planting trees to protect water quality.

Would you like to help the MS4 Program plant trees in the Township? Email MDykman@Londonderrypa.org to learn of volunteer events!

TURN THIS

**A heavily eroded stream channel**

INTO THIS

**Newly planted riparian buffer with protective tree tubes**

**A mature forest adjacent to a established stream channel**

## Tree Canopies

Although tree canopies are scenic and enjoyable to drive through, they can also cause a hazard to vehicles and the road surface. While low hanging branches keep the road shaded, they also keep the sun from drying the road after it rains, and hinders the melting process of ice and snow in the winter. Emergency vehicles must travel slower to avoid low hanging branches from striking their vehicles. Delivery trucks, garbage trucks, and school buses also have a difficult time passing safely under low hanging limbs. During rain and snow events, these limbs hang even lower than usual making safe passage more difficult.

It is not our intent to remove all trees from hanging over the roadway. But we do have to make it safe for all vehicles and pedestrians to travel the roadways. We will be removing limbs back 3 to 4 feet from the edge of the pavement, and 16 to 20 feet above the road surface. We will also be removing the dead limbs that we can reach before they cause damage to vehicles or pedestrians.

## Grass on the Roads

When mowing your grass this summer, make sure to keep all grass clippings and garden trimmings off of the road. When left on our roads, they can create dangerous driving conditions, especially for motorcyclists, as well as add to stormwater runoff. This debris, often times containing fertilizer, is not meant to be in our waterways and disrupts the natural ecosystem. Please make sure to either blow or sweep your clippings from the road, do not dump them down the storm sewer. It's also a good idea to leave the grass clippings on your lawn. They serve as a great natural fertilizer!

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## Spring Cleaning

Longer days, rain showers, baseball, and cleaning are just a few things that come to mind when you think about spring. And since we don't have much to say about game or weather predictions, we thought we would share some stormwater-friendly spring cleaning tips.

When you clean the outside of your house and do yardwork, remember to always use a broom to remove litter from driveways or sidewalks - instead of a hose. This will prevent debris from entering nearby creeks or rivers. Instead, sweep litter back into your yard or into your compost pile – especially grass clippings and leaves!

### THINKING ABOUT CLEANING UP YOUR LAWN CARE ROUTINE?

Lawn care chemicals often end up washing right into local waters – wasting your money and polluting our streams and rivers! Try these methods to save green – and be green!

Try to "grasscycle"! It adds nutrients into your lawn, reducing your need for fertilizer by up to 25%.

What is grasscycling? Recycling grass. Mow your grass high, about 3 inches, and then leave the clippings on your lawn. Cut frequently to promote the smaller clippings settling into the soil, and prevent longer grass unable to settle down, which can end up looking like hay.

If fertilization is necessary, September is the best month to apply it. Don't apply fertilizers or pesticides when there is rain in the forecast, and never apply fertilizers or pesticides within 75 feet of waterways. Using less fertilizer will save you money, as well!

**"WEED BE GONE" Recipe**

- *1 gallon white vinegar*
- *2 cups Epsom salt*
- *¼ cup Blue Dawn dish soap*

*Spray weeds in morning after dew dries. Weeds will be gone by evening.*

Hand pick weeds when possible, and only spot treat rather than dousing the lawn. Try using our "Weed Be Gone" recipe above.

Are you planning on disposing of old paint or household cleaners? Please don't pour them out! Instead, call Dauphin County's curbside household hazardous waste program at 1-800-449-7587. This is a program available to each household for FREE, one time per year. When poured on the ground or into an inlet, these toxins are carried by stormwater directly into a nearby creek or stream, untreated, which eventually end up in the Susquehanna River. And who wants to swim or fish with paint?

Monique Dykman
MS4 Environmental Specialist 717-461-0027

## Londonderry Estates Sewer Project

Londonderry Township has been working with residents over the past year to construct sewer in the Londonderry Estates development. This is a requirement of the Township's Official Sewage Management plan that is mandated by the Department of Environmental Protection.

The Township was recently awarded a combination of grants and loans by PA Vest which is the state agency that provides some funding for these types of projects. The Township received $108,300.00 in grants and $283,700.00 in loans from PA Vest. These initial funds are to be used to complete the design and permitting for this project. We expect that process to be completed in December of 2020. When we receive approval from DEP on the design and permitting we will use this information to determine the cost of construction of the lines. The township will use that cost estimate to submit another PA Vest application for the construction of the lines. That application is anticipated to be submitted in winter/spring of 2021. Based upon the results of that PA Vest application (funding received) we anticipate construction on the lines to begin in the spring/summer of 2021, and connections to the line to be completed in the summer/ fall of 2022.

Additionally the township has applied for an H2O grant from the Commonwealth Financing Authority for $985,000.00 to offset some of the cost of the project which is expected to be approximately $1,900,000.00. We expect to hear the results of that grant application in May of this year. The Township is exploring every opportunity to obtain funding for these projects and reduce the cost to our residents. This is the first sewer project that the Township has undertaken so please be patient with us as we work our way through the learning curve. Please feel free to reach out to the Township at 717-944-1803 with any questions you may have on this project.

Fall 2019
https://www.londonderrypa.org/pdfs/uploaded/announcements/all/Fall%202019%20Newsletter.pdf.pdf



## Spotted Lanternfly Help Locate Them

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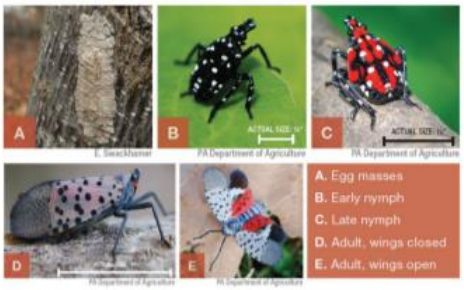
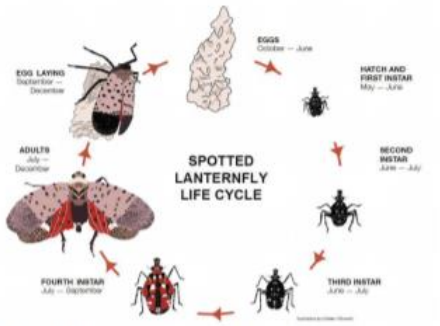



**Life Stages of Spotted Lanternfly** All life stages of the spotted lanternfly, from egg to adult.




**Life Cycle of Spotted Lanternfly** The life cycle of spotted lanternfly, beginning from egg to adult. There is one generation per year in Pennsylvania. Adults die in the winter, and the eggs overwinter and hatch in the spring.

**extension.psu.edu**

## Certified Pumpers/Haulers

**ASSOCIATED PRODUCTS SERVICES, INC.**
717-766-5397
2 East Road • Mechanicsburg, PA 17050

**BAKER'S SEPTIC SERVICE, LLC**
717-367-7271
1538 Ridge Road • Elizabethtown, PA 17022

**BAUMAN'S SEPTIC SERVICE**
717-469-2463
39 Homestead Road • Grantville, PA 17028

**DILLSBURG EXCAVATING & SEPTIC, INC.**
717-432-9704 • 717-545-2610
516 Range End Road • Dillsburg, PA 17019

**THOMAS H. ERB & SONS, INC.**
717-626-5591
268 Sego Sago Road • Lititz, PA 17543

**R E FINK & SONS, LLC*** • 717-938-3581
1920 Old Trail Road • Etters, PA 17319

**GERBERICH-HOFFMAN SEPTIC SERVICES**
717-865-2015 • 717-867-5024
165 Mowery Road • Jonestown, PA 17038

**KAUFFMAN'S SEPTIC SERVICE, LLC** • 717-944-4308
236 Governor Stable Road • Bainbridge, PA 17502

**JOHN KLINE SEPTIC SERVICES, LLC** • 717-898-2333
3869 Old Harrisburg Pike • Mount Joy, PA 17552

**KLINE'S SERVICES** • 717-898-8158
5 Holland Street • Salunga, PA 17538

**PAGE SEPTIC SERVICES*** • 717-865-5752
7733 Althea Avenue • Harrisburg, PA 17112

**UNDERWOOD SEPTIC SERVICE & REPAIRS, LLC***
484-888-2350
620 Noble Road • Christiana, PA 17509

**WALTER M. STROHL, LLC SEPTIC SERVICES**
717-733-2339
670 W. Girl Scout Road • Stevens, PA 17078

**WALTERS ENVIRONMENTAL SERVICES, INC.***
717-469-0588
PO Box 400 • Grantville, PA 17028

***pumper haulers that will pump island properties**

5

## Riparian Buffers

### WHAT IS A RIPARIAN BUFFER?

Do you have an eroded bank on your property? Is your property line receding because it is falling into the creek? Creeks, streams and rivers will stabilize when they are planted with grasses and trees, these areas are called Riparian Buffers. A riparian area will not only prevent erosion, but will filter pollution from human land use before it reaches the water.

A heavily eroded stream channel

A mature forest adjacent to a stabilized stream channel

### WHAT ARE THE BENEFITS OF BUFFERS?

- Prevent streambank erosion by using roots for stabilization
- Reduced impacts from flooding
- Increase aesthetic value
- Trap, filter and slow runoff
- Provide shade for temperature control
- Provide food, cover and habitat for wildlife
- Absorb and store excess nutrients which are associated with decreased water quality

If you are interested in planting trees along your streamside property, at no cost to yourself, please contact Monique Dykman at MDykman@Londonderrypa.org.

Planted riparian buffer with protective tree tubes

## Tree Canopies

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## Grass on the Roads

When mowing your lawn this Autumn, make sure you keep all grass clippings and garden trimmings off the road. When left on our roads, they can create dangerous driving conditions, especially for motorcyclists, as well as add to stormwater runoff. This debris, often times containing fertilizer, is not meant to be in our waterways and disrupts the natural ecosystem. Please make sure to either blow your clippings or sweep them from the road. DO NOT DUMP DOWN THE STORM SEWER. *It is also a good idea to leave the clippings on your lawn, they serve as a great natural fertilizer!*



## LONDONDERRY TOWNSHIP ILLICIT DISCHARGE AWARENESS

*An illicit discharge is any discharge not composed entirely of stormwater, entering a Municipal Separate Storm Sewer System aka an "MS4" aka a storm drain.*

*An illicit discharge also includes any piping or drainage leading directly into a storm drain that was not initially placed during construction. MS4's are only intended to carry stormwater directly to streams and rivers. Any illicit discharges flowing into an MS4 can pollute the streams in the area, harming the wildlife and way of life of the people who use these streams.*

**How You Can Help?**

The easiest way you can help is by disposing of liquid wastes properly and not allowing them to flow into storm drains. You can also check your storm drains near your home to make sure no pipes are flowing from your home which you were not previously aware of.

If you notice a possible illicit discharge you can contact the MS4 Environmental Specialist at 717-461-0027.

However, if you ever see a rare, large quantity spill which would be unable to be handled locally, please call DEP's South-Central 24/7 Emergency number at 866-825-0208.

**Examples of Illicit Discharges**

- Sanitary Wastewater
- Septic Tank Effluent
- Chlorinated Pool Discharge
- Improper Oil/Radiator Flushing Disposal
- Laundry Wastewaters
- Spills from roadway accidents
- Improper disposal of household toxins

**Exemptions**

- Discharges from fire-fighting activities
- Fire hydrant flushing
- Potable water, including water line flushing
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids
- Irrigation drainage
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling
- Pavement wash waters where no detergents are used and no spills or leaks of toxic or hazardous materials have occurred
- Routine external building washdown that does not use detergents
- Uncontaminated ground water or spring water

## Emergency Contact List for Spill Response

**MS4 Dept. Spill Reporting, Monique Dykman**
(Business hours; 8:30-5, M-F) **717.944.1803**

**South-Central Emergency Number (24/7)**
**717.705.4700**

**LONDONDERRY TOWNSHIP**

- **MS4 Dept., Monique Dykman**
  Spill Reporting after business hours **717-461-0027**
- **Township Manager, Steve Letavic**
  **717.580.2089**
- **Public Works Director, Andy Brandt**
  **717.443.5426**
- **Sunset Golf Superintendent, Sam Risteff**
  **717.943.4547**

**PENNSYLVANIA DEP**

- **South-Central Regional Office, Lynn Langer**
  **717.705.4700**
- **South-Central Emergency Number (24/7)**
  **717.705.4700**
- **EPA National Response Center 1.800.424.8802**
  **US Coast Guard**

**LONDONDERRY TOWNSHIP VOLUNTEER FIRE CO.**

- **In an EMERGENCY... DIAL 911**
- **Fire Company Chief, Bart Shellhammer**
  **717.571.0428**
- **Fire Company Assistant Chief, Matt Naples**
  **717.943.0706**

**CONSULTANTS**

- **Sewer Enforcement Officer, Timothy Wargo**
  **Hoover Engineering Services 717.443.2878**
- **HRG Engineering, Andrew Kenworthy**
  **717.564.1121**

**Contact Codes** (determine the kind of spill, then contact the appropriate person highlighted in the corresponding color)

**Common Spill/Illicit Discharge**

**Rare, large quantity spill unable to be handled locally**

**EMERGENCY – Immediate danger to health, property, and environment**

## Fall and Winter Stormwater Tips

- **CLEAR LEAF DEBRIS -** Protect your storm water drains from leaves. Allowing leaves near stormwater drains will result in water build up, and is dangerous for motorcyclists.
  - **PRO TIP:** Consider mowing over raked up leaves and placing them in your garden to protect plants from the harsh winter incoming, or add the leaves to your compost!
- **SHOVEL YOUR SNOW -** Always shovel snow into vegetated areas, rather than into streets or into streams. The plant life and soil will absorb and filter out any pollutants, including grime, dirt, road salt and other pollutants from paved roads. Otherwise, as the snow melts, these contaminants are released, in concentrated amounts, and washed right into the MS4 to be discharged into local waterways.
  - **CONSIDER SALTING ALTERNATIVES** - Road salt can be harmful to plants, aquatic life, drinking water supplies and expediate vehicle corrosion. Salt alternatives like potassium acetate (KA) and calcium magnesium acetate (CMA) can be used to de-ice sidewalks and driveways and are less damaging, or apply sand to improve traction and slow the formation of ice. If you do apply salt, shovel first and apply as little as possible – and remember it is not effective when the temperature drops below 15°. **More salt ≠ more melting snow.**

## Londonderry Township Recognized
***as Certified Sustainable Municipality***

Londonderry Township is among a select group of high performing municipalities to become certified through the Sustainable Pennsylvania Community Certification program. Londonderry Township is recognized at the Bronze level of certification for meeting the program's rigorous performance criteria which track 131 policies and practices that define a sustainable community.

The Sustainable Pennsylvania Community Certification, managed by the Pennsylvania Municipal League in partnership with Sustainable Pittsburgh, is designed for municipalities that are working to save money, conserve resources, and serve vibrant communities. The certification is implemented statewide, recognizing Townships, cities, and home rule municipalities across the Commonwealth. The Pennsylvania Municipal League and Sustainable Pittsburgh applaud municipalities for their demonstrated commitment and sustainability performance.

In earning the Bronze certification, Londonderry Township is acknowledged for its progress in such areas as community design and land use, energy efficiency, health and wellness, intergovernmental cooperation, recycling and waste reduction, fiscal controls, and internal management and operations. Details about Londonderry Township's certification performance within these topics can be found on the Certification program website: http://www.sustainablepacommunitycertification.org/users/certified_municipalities.

"Londonderry Township is proud to be recognized as a Bronze Certified Community by the Sustainable Pennsylvania Community Certification program," said Steve Letavic. "The Township has a long history of commitment to saving taxpayer dollars, using resources efficiently, and applying best practices in municipal government and community development. We are pleased to be recognized and be part of the regional community of good government."

"We are delighted to see Londonderry Township distinguished among local governments that are leading the way in applying sustainability to both their operations and management as well as within the community," said Anne McCollum, Director of Training and Development, Pennsylvania Municipal League.

The Sustainable Pennsylvania Community Certification is intended to bring recognition to municipalities that are implementing the policies and practices of sustainability to advance community and regional prosperity. It also serves as a mechanism for sharing best practices for creating a more sustainable Pennsylvania. "Municipalities that earn the Sustainable Pennsylvania Community Certification have demonstrated a commitment to advancing sustainable best practices to foster thriving and vibrant communities where people long to live, work, and play. Commitment to continuous improvement and innovation is at the heart of sustainability and the Certification program is a means to accelerate municipal performance," said James T. Price, Sustainable Community Manager, Sustainable Pittsburgh.

For more information, please visit www.sustainablepacommunitycertification.org or contact Monique Dykman, at 717-908-6738 or mdykman@londonderrypa.org

## Invasive Plants & Animals

Invasive plants and animals are nonnative to the area they are residing, and outcompete the native plants and animals. Invasive plants typically have natural advantages such as distributing large numbers of seeds, aggressive root systems, and/or produce leaves earlier in the season than their native counterparts, allowing them to sprawl out, blocking light from reaching the native plants. Similarly, nonnative plants do not provide necessary nutrients, and typically have an unpleasant taste to our native animals therefore, nonnative plants do not get grazed down at the same rate a native plant would. This allows the nonnative invasive species to grow uninhibited, and puts greater pressure on the remaining native plants.

### TREE OF HEAVEN (AILANTHUS)

- Can grow from 80-100 feet tall and 6 feet in diameter.
- Leaves are attached along a central stem, positioned directly opposite of one another. Each stem can hold between 10-40 leaflets spanning 1-4 feet long.
- Pointy, riveted leaves, blossoms with yellowish flowers above the leaves.
- Leaves smell like cat urine or burnt peanut butter when crushed.
- Almost identical to Sumac.

Do not pull, as the root system will reinforces itself, and will sprout twice as strong the next season. To learn more about the treatment of the Tree of Heaven, contact **MDykman@londonderrypa.org**, or refer to documents published by Penn State Extension, or another creditable source.

**Special Threat**

- Grows everywhere and anywhere. Will even grow in between cracks in the sidewalk. Tree roots are extensive. May damage building foundations, underground pipes, and even kill other plant species nearby.
- Known as the host tree for the spotted lantern fly

### POISON HEMLOCK

- Located along roadsides, field margins, ditches and waste areas.
- Hollow, purple stem reaching up to 8 feet tall. Leaves are "dissected", or intricately cut – similar to a fern.
- Smells like parsnip when crushed.
- As the name suggests, ingesting poison hemlock is toxic for wildlife and humans – even years after removal.

Luckily, removal of the entire root system is unnecessary to eliminate poison hemlock.

Poison hemlock can be controlled by hand pulling, or using Roundup. Roundup is often the preferred method to hand pulling to prevent an adverse reaction of painful blisters - resulting from poison hemlock coming in contact with skin, then being exposed to sunlight.

To learn more, or look into chemical removal of the poison hemlock visit DCNR's Invasive Plant Fact Sheet: Poison Hemlock.

**Historical Fact:** Used to kill Socrates

### SAVE THE DATE!

**WEDNESDAY, OCTOBER 23RD**
**5:30-7:30**

Londonderry MS4 Department workshop on organic land care, rain garden installation and benefits of native plants with Mae Marie Organics.

Email MDykman@londonderrypa.org to learn more!

### GET INVOLVED with the MS4 Environmental Department!

Name: _____

Phone: (_____) _____

Email: _____

**I am interested in:**

❒ **Attending environmental informational workshops including: stormwater management, how to build a rain garden in your home, composting, green cleaning, etc.**

❒ **Attending volunteer events, including: tree plantings, planting/weeding events, river cleanups, etc.**

## Londonderry Township Recycling Center

**2501 Sunset Drive • Middletown, PA**

**YARD WASTE RECYCLING –**
The yard waste recycling area is now open for Londonderry Township residents by permit only. A permit can be obtained at the Township office, 783 S. Geyers Church Road between the hours of 8:30 a.m. and 5:00 p.m., Monday through Friday. There is no charge for the permit. Proof of residency is required.

The yard waste recycling area is located at 2501 Sunset Drive, across from the Public Works Building. There are two areas to deposit yard waste consisting of flowers, plants, grass clippings.

Please keep waste inside of the logs and dump debris out of bags. There will be a receptacle provided to dispose of the bags. Absolutely no dumping of trash such as lumber, tires, concrete or metal is permitted. This recycling area is for **YARD WASTE ONLY**.

We encourage residents to take brush and leaves (no grass clippings or tree stumps) to Zeager Brothers, 4000 E. Harrisburg Pike in Middletown, located across from Saturday's Market. This service is for residents only and not for commercial companies.

For more information on what items Zeager Brothers will accept give them a call at 717-944-8481. Thank you!

### SAVE THE DATE!

**SATURDAY, OCTOBER 19TH 9AM-1PM**
**Westporte Center Plaza**
**302 West Main Street • Middletown**

Need to 'Organize Your Life'? ***Healthier Spaces Organizing*** is hosting a 'hard to recycle' event sponsored by the Dauphin County Commissioners. They will be collecting:

- Electronics and Paper Recycling collected by the Dauphin County—Recycling Center (Paper will be shredded off-site)
- Clothing to be donated to Community Aid
- Furniture and housewares to be donated to Habitat for Humanity
- Medication collection by PSU Milton Hershey Med.

## Dauphin County Recycling Center

**1625 S. Cameron Street • Harrisburg • 717-982-6772**
**Hours: Monday-Friday 8:30–4:30 • Saturday 9:00–2:00**

Drop off location for unwanted or obsolete electronics, appliances and much more including:

Car and boat batteries • Lithium, rechargeable and regular batteries • Thermostats containing mercury • Empty propane canisters • Fire extinguishers • Light bulbs (including compact fluorescent bulbs) • (long fluorescent tubes – contact Dauphin Electric) • Refrigerators/ freezers/air conditioners ($20 fee for freon removal) • Dehumidifiers • TV's • Microwaves • Computers (must be intact) • Hardcover books - if the local library won't take them, cut covers off first

Large items — if you get it there, they'll unload it!
To dispose of hazardous waste such as oil drums, insecticides, spray cans, poisons, please call 800-449-7587.

## Conewago Township Recycling Center

**3279 Old Hershey Road • Hershey, PA • 717-534-8556**

**HOUSEHOLD GOODS –**
Dauphin County has designated Conewago Township as the local recycling center. No permit is required and there is no charge to residents.

Items that may be brought to the Recycling Center: Magazines/office paper/junk mail/phone book • Corrugated cardboard and boxboard • Newspapers and inserts • Aluminum and tin cans • Plastic bottles with recycling symbols on them

**Glass bottles and jars are no longer accepted.**

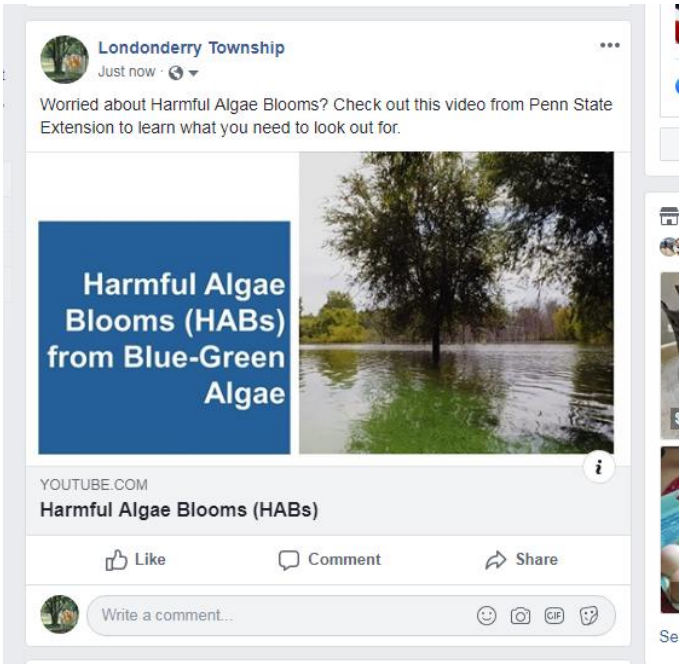
**APPLIANCES, FURNITURE, SCRAP METAL –**
Do you need to dispose of items such as appliances, furniture or scrap metal? One option is to contact your trash hauler and inquire what items they will pick up. Another option is to contact local scrap metal yards. Some scrap yards will pay you for metals such as aluminum, copper, brass, etc.

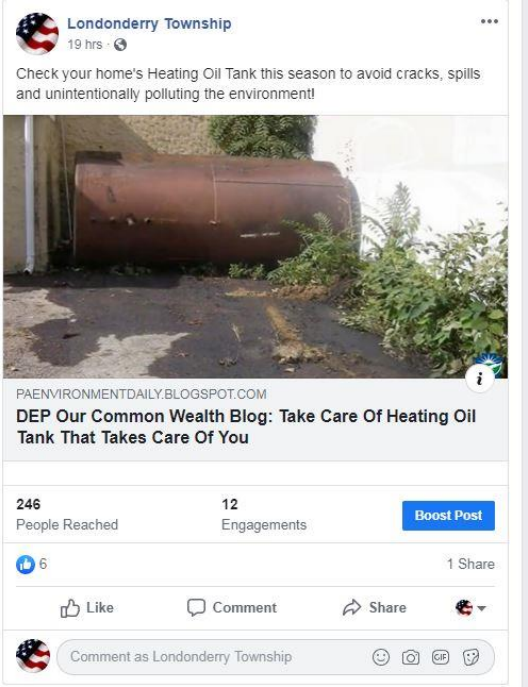
**CSR Scrap Metal** (717) 233-7927
**Dauphin County Recycling Center** (717) 982-6772
**DEP Waste Management** (717) 705-4918

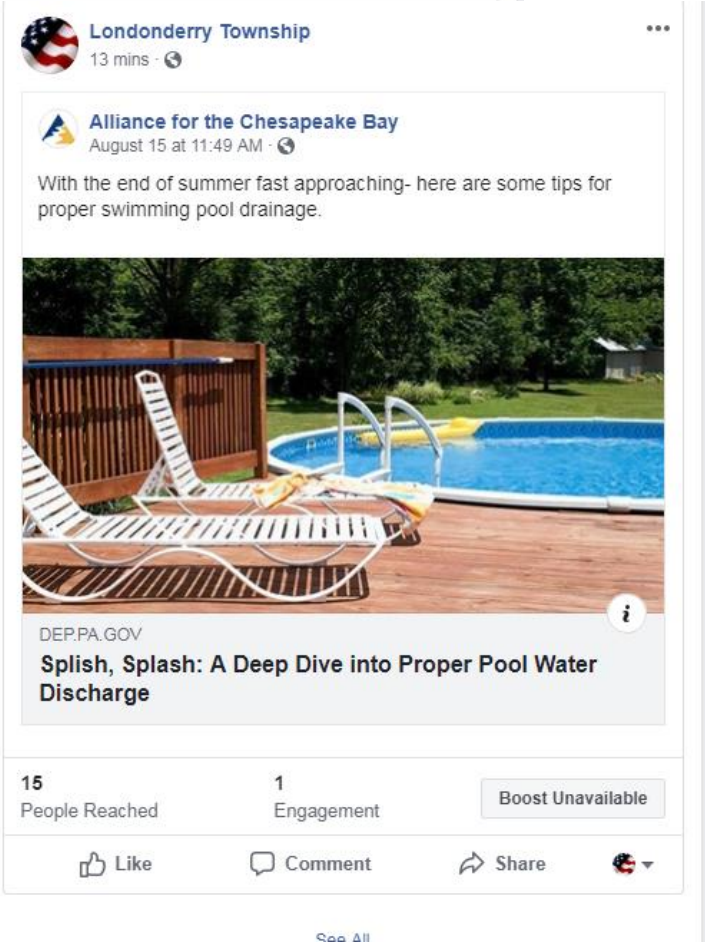
*Londonderry Facebook Page*

https://www.facebook.com/LondonderryTownship/

Examples:




Londonderry Township
19 hrs
Check your home's Heating Oil Tank this season to avoid cracks, spills and unintentionally polluting the environment!
PAENVIRONMENTDAILY.BLOGSPOT.COM
DEP Our Common Wealth Blog: Take Care Of Heating Oil Tank That Takes Care Of You
246
People Reached
12
Engagements
Boost Post
6
1 Share
Like
Comment
Share
Comment as Londonderry Township


Londonderry Township
13 mins
Alliance for the Chesapeake Bay
August 15 at 11:49 AM
With the end of summer fast approaching- here are some tips for proper swimming pool drainage.
DEP.PA.GOV
Splish, Splash: A Deep Dive into Proper Pool Water Discharge
15
People Reached
1
Engagement
Boost Unavailable
Like
Comment
Share

*Golf Course Outreach*

## *DCCD Website & Material*

provision included in this school students can now urse credit upon success- personal financial liter- nine through 12, starting g class of 2020-21.

ness toward gun owners. ship, the committee has er of other gun-related ng them out of the hands ndividuals who self-ex- om buying or receiving a e years. It also has passed criminal justice reform ictim protections, among ics.

, legislation became law ampioned in the House iary Committee Chair- -Luzerne County, taking e Senate, that expanded when out-of-court state- n can be admissible in

n the state House since

**PREVENT STORMWATER POLLUTION**

Stormwater pollution threatens our rivers, streams, and wetlands.

Stormwater picks up debris, chemicals, dirt, manure, and other pollutants as it flows over surfaces. We rely on our rivers and streams for drinking, recreation, and to support wildlife.

***Do Your Part to Protect our Waters!***

***How you can help prevent stormwater pollution:***

- Remember, only rain goes down the drain. Do not dump anything down storm drains and keep them clear of debris.
- Wash your car over your lawn or gravel.
- Minimize your use of lawn and garden chemicals.
- Minimize the use of salt-melt.
- Install a rain barrel or cistern to capture roof runoff.

***For more ideas, visit DEP or your municipality's website.***

In compliance with MS4 permits, this ad is sponsored & paid for by these members of the

Capital Region Council of Governments 230 S. Sporting Hill Road, Mechanicsburg, PA 17050 717.761.6211

Annville Township
Camp Hill Borough
Carroll Township
Dauphin Borough
Derry Township Municipal Authority
Dillsburg Borough
East Pennsboro Township
Fairview Township
Hampden Township Sewer Authority
Lemoyne Borough
Londonderry Township
Lower Allen Township
Lower Paxton Township
Lower Swatara Township
Marysville Borough
Mechanicsburg Borough
Middletown Borough
Monroe Township
Monaghan Township
Paxtang Borough
Shippensburg Township
Shiremanstown Borough
Silver Spring Township
South Middleton Township
Swatara Township
Upper Allen Township
West Hanover Borough
Wormleysburg Borough

DCMS4 ACTY 7-17

**DAUPHIN COUNTY MS4 ACTIVITY RECORD FORM**
**PERMIT YEAR: JULY 1, 2019 TO JUNE 30, 2020**

| | | | | | |
|---|---|---|---|---|---|
| | | | | | **1. ACTIVITY DESCRIPTION** |
| **ACTIVITY TITLE** | DEVELOPER EDUCATION SHEET | | | | |
| **ACTIVITY DESCRIPTION** | Distribute an educational sheet on erosion control to developers. | | | | |
| **LOCATION** | | DATE | 12-13-19 | TIME | |
| **GEOGRAPHIC AREA** | Dauphin County Area | **ATTENDANCE** | | | 37 |
| **COOPERATING ENTITIES** | | | | | |

| | | | |
|---|---|---|---|
| | | | **2. CONTACT INFORMATION** |
| **COUNTY CONTACT INFORMATION** | | | |
| **NAME** | Bob Christoff | **TITLE** | Assistant Manager |
| **PHONE** | 717-921-8100 | **EMAIL** | rchristoff@dauphinc.org |
| **DEPARTMENT** | DCCD | | |
| **OTHER CONTACT INFORMATION** | | | |
| **NAME** | | **TITLE** | |
| **PHONE** | | **EMAIL** | |
| **AGENCY** | | | |

| | | | | | |
|---|---|---|---|---|---|
| | | | | | **3. DOCUMENTATION** |
| **ATTACHED** | **A** | **AVAILABLE UPON REQUEST** | **R** | **NOT AVAILABLE** | **N** |
| **INVITATION OR ANNOUNCEMENT** | | | **POWERPONT** | | |
| **DISTRIBUTION LIST** | | **R** | **MAPS** | | |
| **AGENDA** | | | **PLANS** | | |
| **ATTENDANCE SHEET** | | | **WEBSITE SCREENS** | | |
| **PHOTOGRAPHS** | | | **INSPECTION OR SCREENING FORMS** | | |
| **PUBLICATIONS** | | **R** | | | |
| **HANDOUTS** | | | | | |

| | |
|---|---|
| | **4. TARGET AUDIENCE** |
| **TARGET AUDIENCE** | Developers |
| **COMMUNICATION CHANNELS** | Direct Mailing |

**5. MCM AND BMP ADDRESSED**

| MCM 1 | | MCM 2 | | MCM 3 | | MCM 4 | | MCM 5 | | MCM 6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **BMP** | **TASK** | **BMP** | **TASK** | **BMP** | **TASK** | **BMP** | **TASK** | **BMP** | **TASK** | **BMP** | **TASK** |
| 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O |
| 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O |
| 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O |
| 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O |
| 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O |
| 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O |
| 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O |

| | | | | | |
|---|---|---|---|---|---|
| | | | | | **6. ACTIVITY CONDUCTED FOR** |
| **COUNTY** | | **ALL DAUPHIN COUNTY MS4 MUNICIPALITIES** | **X** | **SPECIFIC MS4 MUNICIPALITIES (LIST BELOW)** | |

**7. COMMENTS**

## *SAVE TIME AND MONEY ON YOUR CONSTRUCTION PROJECT*

As a developer, you are very aware that time is money. Delays in construction affect your bottom line. One area where needless delays can be avoided is erosion and sediment pollution control.

Virtually all development activities involving earth moving require some erosion and sediment pollution control planning and most require permitting. Proper planning and careful implementation of the plan can save needless delays. Further, by following an approved plan, enforcement procedures which may result in fines and associated lengthy delays can be avoided.

Also, consider that as an active developer or builder in your community, it is your responsibility to prevent sediment pollution which degrades the streams in your community. By properly managing erosion and runoff from your site, you can be a good neighbor.

**THERE ARE SEVERAL COMMONLY MADE MISTAKES THAT CAN CAUSE DELAYS**

1. Not having a plan or not obtaining needed permits.
2. Not following the planned construction sequence.
3. Not installing the planned erosion control Best Management Practices (BMPs)
4. Improper installation of BMPs.
5. Not maintaining BMPs in proper working condition.
6. Not stabilizing the construction site as planned for or required.
7. Not complying with conditions of permits.
8. Not providing training or guidance to employees regarding erosion and sediment control.
9. Although not directly related to sediment control, you will want to ensure that all steps, measures, procedures and documentation are in order for timely processing of your Notice of Termination. Remember, you as the permittee continue to be responsible for the project site until the Notice of Termination is approved. This is true even if the project is completed and the permit expires.

**MISTAKES CAN CAUSE DELAYS IN THESE WAYS:**

1. Erosion and sediment control BMPs that are not installed correctly the first time needing to be reinstalled.
2. Time spent repairing or remediating damages caused by improper installation of BMPs, not maintaining BMPs or failing to follow an erosion and sediment control plan.
3. Time spent in meetings with the Conservation District or Department of Environmental Protection staff to correct mistakes.
4. Time lost while enforcement procedures are conducted. In this case, in addition to delays, fines may be imposed.

*Proper and timely site stabilization prevents erosion, protects streams and saves you time and money. Stabilization of this slope will prevent erosion. When erosion occurs, it will cost time and money to repair and stabilize.*

**THREE KEYS TO SAVING TIME AND MONEY**

**1. COMMUNICATION** – Open communication between the developer, consultant, contractors and Conservation District can avoid confusion, misunderstandings, mistakes and delays.

**2. PRE-APPLICATION MEEETINGS** – Although not required, these meetings are critical to identifying and addressing permit requirements and other issues that could cause delays in reviewing a permit or during construction. You are strongly urged to have your consultant schedule such a meeting with Conservation District staff prior to submitting an application.

**3. PRE-CONSTRUCTION MEETINGS** – These meetings are required for NPDES Permits and are the responsibility of the permittee to arrange. These meetings are an opportunity to address any final issues, identify concerns and make sure all parties are "on the same page" before construction begins.

**Time and Money Saving Tips…**

The following suggestions will help you to avoid delays in construction due to erosion due to common problems erosion and sediment pollution control problems. Following these recommendations will not only save you time and money during construction, it can also help to establish you and your company as a good neighbor in your community.

-Contact the Conservation District to discuss the erosion and sediment pollution control requirements for your project well in advance. A pre-application meeting can save you time and money.

-Ensure the erosion and sediment control plan is being followed, including construction sequencing.

-Do not "cut corners" in planning or installation of BMPs. If there isn't time or money to do it right the first time, where will you find the time or money to do it a second time?

-Inspect and maintain BMPs regularly, on a weekly basis and especially after each measurable rain, to ensure they are functioning properly and keeping sediment from reaching streams, storm sewers or adjacent properties. Make repairs to BMPs immediately to ensure they will function properly.

-Ensure contractors have access to and understand the plan and correct installation procedures.

-Ensure that all your appropriate employees are properly trained in erosion control practices and procedures.

-If a problem does arise, contact the Conservation District. The Conservation District is willing to work with you to prevent sediment pollution.

*The silt sock above was not installed correctly. Improper ground contact, the lack of staking and mulch allows sediment to wash onto the adjacent sidewalk. It will cost time and money to reinstall. The silt sock below was installed correctly the first time. It will provide cost effective sediment control.*

*Mulch Berms, like the one shown above, are a great way to use on site materials as an erosion control practice. What was once a waste product from clearing and grubbing activities can now be used as an effective and cost saving way to prevent sediment from washing off a construction site.*

**Contact the Dauphin County Conservation District Staff**

**717-921-8100**

**VISIT OUR WEBSITE FOR INFORMATION ON EROSION AND SEDIMENT POLLUTION CONTROL AND NPDES PERMITTING**

**www.dauphincd.org**

DECEMBER 2019

DCMS4 ACTY 7-17

**DAUPHIN COUNTY MS4 ACTIVITY RECORD FORM**
**PERMIT YEAR: JULY 1, 2019 TO JUNE 30, 2020**

| | | | | | |
|---|---|---|---|---|---|
| | | | | | **1. ACTIVITY DESCRIPTION** |
| **ACTIVITY TITLE** | SCHOOL POSTER | | | | |
| **ACTIVITY DESCRIPTION** | Distribute an educational poster to all schools in the MS4 area. | | | | |
| **LOCATION** | | DATE | 12-13-19 | TIME | |
| **GEOGRAPHIC AREA** | Dauphin County MS4 area | **ATTENDANCE** | | | 74 Schools |
| **COOPERATING ENTITIES** | | | | | |

| | | | |
|---|---|---|---|
| | | | **2. CONTACT INFORMATION** |
| **COUNTY CONTACT INFORMATION** | | | |
| **NAME** | Bob Christoff | **TITLE** | Assistant Manager |
| **PHONE** | 717-921-8100 | **EMAIL** | rchristoff@dauphinc.org |
| **DEPARTMENT** | DCCD | | |
| **OTHER CONTACT INFORMATION** | | | |
| **NAME** | | **TITLE** | |
| **PHONE** | | **EMAIL** | |
| **AGENCY** | | | |

| | | | | | |
|---|---|---|---|---|---|
| | | | | | **3. DOCUMENTATION** |
| **ATTACHED** | A | **AVAILABLE UPON REQUEST** | R | **NOT AVAILABLE** | N |
| **INVITATION OR ANNOUNCEMENT** | | | **POWERPONT** | | |
| **DISTRIBUTION LIST** | R | | **MAPS** | | |
| **AGENDA** | | | **PLANS** | | |
| **ATTENDANCE SHEET** | | | **WEBSITE SCREENS** | | |
| **PHOTOGRAPHS** | | | **INSPECTION OR SCREENING FORMS** | | |
| **PUBLICATIONS** | R | | | | |
| **HANDOUTS** | | | | | |

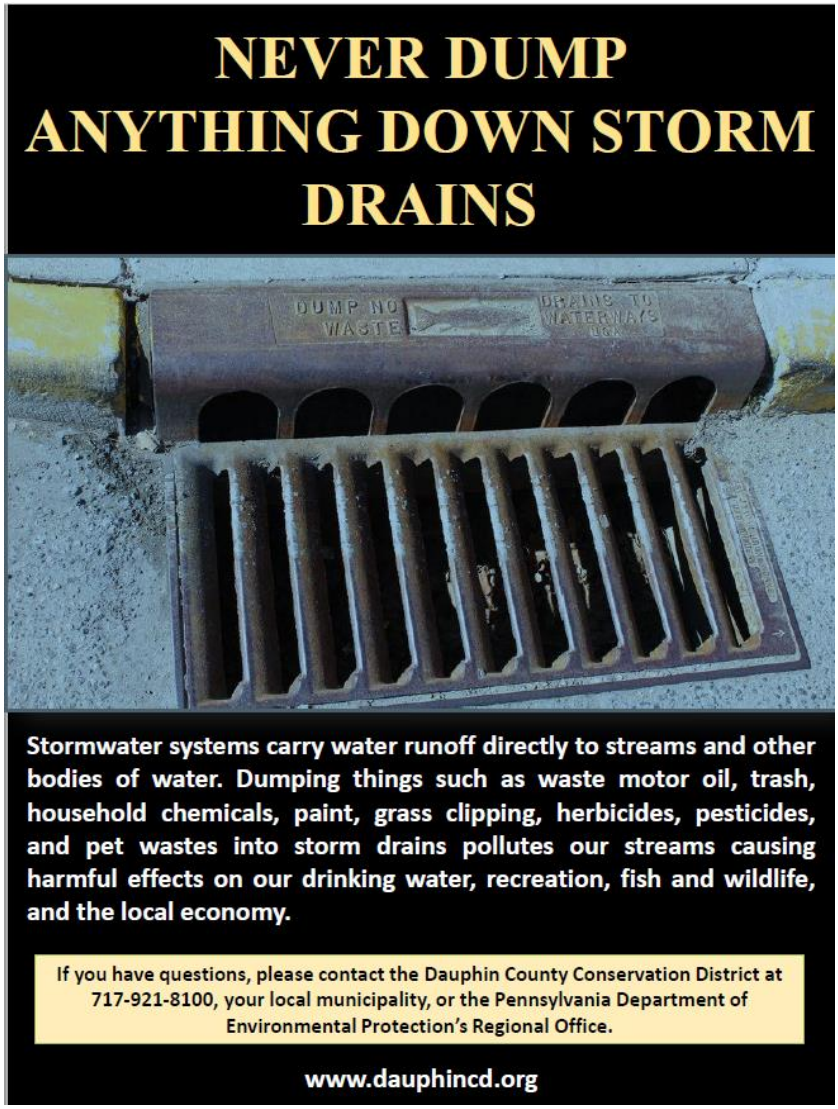
| | |
|---|---|
| | **4. TARGET AUDIENCE** |
| **TARGET AUDIENCE** | School Students |
| **COMMUNICATION CHANNELS** | Poster |

**5. MCM AND BMP ADDRESSED**

| MCM 1 | | MCM 2 | | MCM 3 | | MCM 4 | | MCM 5 | | MCM 6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BMP | TASK | BMP | TASK | BMP | TASK | BMP | TASK | BMP | TASK | BMP | TASK |
| 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O |
| 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O |
| 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O |
| 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O |
| 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O |
| 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O |
| 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O |

| | | | |
|---|---|---|---|
| | | | **6. ACTIVITY CONDUCTED FOR** |
| **COUNTY** | **ALL DAUPHIN COUNTY MS4 MUNICIPALITIES** | X | **SPECIFIC MS4 MUNICIPALITIES (LIST BELOW)** |

| |
|---|
| **7. COMMENTS** |
| |




## Appendix B MCM #1 (Figure 3)

Educational Outreach Programs

**MCM #1: BMP #4 & 5 - Stormwater Education program for local residents & other public outreach campaigns**

LONDONDERRY TOWNSHIP

**EDUCATIONAL OUTREACH PROGRAMS**

| Date | Program Title | Target Audience | Location | # Registrants | # Attendees |
|---|---|---|---|---|---|
| 7/17/2019 | Stormwater Management Workshop | Londonderry Township and other local residents | Sunset Bar and Grill | 35 | 26 |
| 10/24/2019 | Rain Gardens. Organic Lawn Care, and Native Plant Workshop | Londonderry Township and other local residents | Sunset Bar and Grill | 15 | 12 |
| 7/17/2019 | DCCD SWM BMP TOUR | General Public | DCCD | 3 | 3 |
| Online Resource | Due to COVID our 3rd worshop was postphoned. Instead we shared a list of water resources on our website and facebook. | Londonderry Township and other local residents | Online | | |

*Mae Marie Organics and Stormwater*

**Mae Marie Organics workshop**

| # | Attendee | Conatct info | Township | email |
|---|---|---|---|---|
| 1 | Dave Ravegum | 717-379-5966 | Swatara | dravegum@gmail.com |
| 2 | Christine Barnhart | 717-686-5034 | Londonderry | barnhart76@yahoo.com |
| 3 | Debra Brooks | 717-329-9385 | Londonderry | debbrooks@comcast.net |
| 4 | Rogie Fureman | 717-274-5981 | West Cornwall | rcfureman@gmail.com |
| 5 | Victoria Gluszko | | | gluszkov@gmail.com |
| 6 | Kathy Murtoff | 7176025785 | Harrisburg | ldadmin@londonderrypa.org |
| 7 | Marlene Usdin | | | Marlene@usdin.com |
| 8 | Ruth Jika | 949-595-6100 | Londonderry | Txgardener@verizon.net |
| 9 | Mary Lott | 717-838-8137 | North Londonderry, Lebanon | monarda2016@gmail.com |
| 10 | Madison Smith | | | Msmith@lowerSwatara.org |
| 11 | Michele Smith | | Londonderry | mlees2008@gmail.com |
| 12 | Bill Pfundheller | 717-525-2085 | Londonderry | Bill.p.pals@outlook.com |
| 13 | Mary Johns | 717 838 8137 | North Londonderry | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |

*PSU Homeowner's Guide to Stormwater*

| Registration Order | Registration Order with Groups | | | | Sign-in | Londonderry township resident? |
|---|---|---|---|---|---|---|
| 1 | 1 | Benjamin | Hanft | - | | |
| 2 | 2 | Drew | Lambert | - | ✓ | NO |
| 3 | 3 | Beth | Herr | Camp Hill | ✓ | NO |
| 4 | 4 | Susan | Yeich | Middletown | ✓ | NO |
| 5 | 5 | Rogie | Fureman | Lebanon | | |
| 6 | | Joan | Brandt | Hummelstown | ✓ | NO |
| 7 | 6 | Ron | Harbin | - " | ✓ | NO |
| 8 | | Laurie | Dobrosky Henry | York | ✓ | NO |
| 9 | 7 | David | Henry | - | ✓ | NO |
| 10 | | Priscella | Snell | Dillsburg | ✓ | NO |
| 11 | 8 | Richard | Snell | Dillsburg | ✓ | NO |
| 12 | 9 | Jonathan | M | - | ✓ | NO |
| 13 | 10 | ~~Erika~~ | ~~Tsumura Glazier~~ | Harrisburg | | |
| 14 | | Susan | Beinhaur | Landisburg | ✓ | NO |
| 15 | 11 | Glenn | Beinhaur | - | ✓ | NO |
| 16 | | ~~Diane~~ | ~~Good~~ | Camp Hill | ✓ | |
| 17 | 12 | David | Good | - | ✓ | |
| 18 | 13 | ~~Carol~~ | Stoffel | Palmyra | ✓ | NO |
| 19 | 14 | Mike | Border | Etters | ✓ | NO |
| 20 | 15 | Diane | Amuso Wilson | - | | |
| 21 | 16 | Lois | Miklas | Lancaster | ✓ | NO |
| 22 | 17 | Richard | Slade | - Halifax | ✓ | No |
| 23 | | ~~Matt~~ | ~~Allison~~ | - | | |
| 24 | 18 | ~~Denita~~ | ~~Gilleland~~ | - | | |
| 25 | 19 | David | Ravegum | - | ✓ | NO |
| 26 | 20 | Judith | Rzucidlo | Lincoln University | | |
| 27 | 21 | VALERIE | SPRENKLE | - | | |
| 28 | 22 | Robert | Kuhn | Palmyra | ✓ | NO Member Londonderry |
| 29 | 23 | Anita | Stabile | - | ✓ | NO |
| 30 | 24 | ~~Mimi~~ | ~~Clark~~ | Mechanicsburg | | |
| 31 | | forest | Myers | Shippensburg | | |
| 32 | 25 | Rebecca | Myers | - | | |
| 33 | 26 | ~~Carl~~ | ~~Deaven~~ | Annville | | |
| 34 | 27 | Mary | Lott | Annville | | |
| 35 | 28 | Chris | Cooper | Lebanon | | |
| 36 | 29 | Wayne | Cooper | - | | |
| | | | Kennedy | | | |
| | | Tom | JONES | | | Yes |
| | | Deb | Stoyer | Camp Hill | ✓ | No |

RAIN

## *3rd workshop was cancelled due to COVID19*

In place of hosting an in-person webinar, Londonderry Township MS4 compiled a list of water quality webinars which was advertised at our BOS Meeting, listed on the Township Website and shared on the Township Facebook Page.

Due to COVID19, Londonderry's MS4 (Municipal Separate Storm Sewer System) is no longer planning to host an in-person workshop related to stormwater, or other environmental topics. Instead, we will share a plethora of great resources from our partners. Please email MDykman@londonderrypa.org to become involved with the MS4 department, or connected to additional resources.

Londonderry MS4 list of Water Quality Webinars

May 19 LIVE WEBINAR: Homeowners Guide to Stormwater

https://www.cvent.com/events/extension-at-home-homeowner-s-guide-to-stormwater/event-summary-ae12a9bb8a894f2dbce7d04dc72a2353.aspx?i=d730fb7b-9a84-4204-a428-f64f2f8127cb

Short video: What is an MS4?

https://extension.psu.edu/what-is-an-ms4

Short video: How to be a good storm water neighbor

https://extension.psu.edu/how-can-i-be-a-good-stormwater-neighbor

Webinar: The Conewago Creek Initiative a Model for Watershed Engagement

https://extension.psu.edu/the-conewago-creek-initiative-a-model-for-watershed-engagement

Roadside Guide to Clean Water: Which of these practices can you see in our community?

https://extension.psu.edu/roadside-guide-to-clean-water

Article: Watershed basics

https://extension.psu.edu/introduction-to-watersheds

Webinar: Water Quality Monitoring, a family friendly outdoor citizen science tool

https://extension.psu.edu/first-investigation-of-stream-health-a-new-citizen-science-activity

Webinar: Engaging Youth in Watershed Efforts

https://extension.psu.edu/engaging-youth-in-watershed-efforts

Webinar: Using Green Infrastructure to Reduce Stormwater Runoff

https://extension.psu.edu/using-green-infrastructure-reduce-stormwater-runoff

Webinar: Managing Your Lake or Pond

https://extension.psu.edu/managing-your-pond-or-lake

A 5 acre native meadow is being installed at Sunset Park and Sunset Golf course through DCNR Funding! If you are interested in installing a Native Meadow project larger than ½ an acre, funding may be available, email MDykman@londonderrypa.org to learn more!

https://extension.psu.edu/roadside-guide-to-clean-water-native-meadows

Article: Best Management Practice: What is a rain garden?

https://extension.psu.edu/roadside-guide-to-clean-water-rain-gardens

Article: The stream bank on my property is eroding, what can I do?

https://extension.psu.edu/roadside-guide-to-clean-water-streambank-and-floodplain-restoration4

Article: Native Plant Gardening

http://paenvironmentdaily.blogspot.com/2020/04/dcnr-good-natured-blog-gardening-with.html?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+PaEnvironmentDaily+%28PA+Environment+Daily+Blog%29

**DAUPHIN COUNTY MS4 ACTIVITY RECORD FORM**
**PERMIT YEAR: JULY 1, 2019 TO JUNE 30, 2020**

| 1. ACTIVITY DESCRIPTION | | | | | |
|---|---|---|---|---|---|
| ACTIVITY TITLE | SWM BMP Tour | | | | |
| ACTIVITY DESCRIPTION | Conducted a tour of the installed SWM BMPs located at the Conservation District office for students attending Dickenson College | | | | |
| LOCATION | Dauphin County Ag and Natural Resources Center | DATE | 07/17/19 | TIME | 2:00 pm |
| GEOGRAPHIC AREA | | ATTENDANCE | | | 3 |
| COOPERATING ENTITIES | | | | | |

| 2. CONTACT INFORMATION | | | |
|---|---|---|---|
| COUNTY CONTACT INFORMATION | | | |
| NAME | Matthew Williard | TITLE | Resource Conservationist |
| PHONE | 717-921-8100 | EMAIL | mwilliard@dauphinc.org |
| DEPARTMENT | Conservation District | | |
| OTHER CONTACT INFORMATION | | | |
| NAME | | TITLE | |
| PHONE | | EMAIL | |
| AGENCY | | | |

| 3. DOCUMENTATION | | | | | |
|---|---|---|---|---|---|
| ATTACHED | A | AVAILABLE UPON REQUEST | R | NOT AVAILABLE | N |
| INVITATION OR ANNOUNCEMENT | | POWERPONT | | | |
| DISTRIBUTION LIST | | MAPS | | | |
| AGENDA | | PLANS | | | |
| ATTENDANCE SHEET | R | WEBSITE SCREENS | | | |
| PHOTOGRAPHS | | | | | |
| PUBLICATIONS | | | | | |
| HANDOUTS | R | | | | |

| 4. TARGET AUDIENCE | |
|---|---|
| TARGET AUDIENCE | General Public |
| COMMUNICATION CHANNELS | |

5. MCM AND BMP ADDRESSED

| MCM 1 | | MCM 2 | | MCM 3 | | MCM 4 | | MCM 5 | | MCM 6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BMP | TASK | BMP | TASK | BMP | TASK | BMP | TASK | BMP | TASK | BMP | TASK |
| 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O | 1 | A B C D E O |
| 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O | 2 | A B C D E O |
| 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O | 3 | A B C D E O |
| 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O | 4 | A B C D E O |
| 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O | 5 | A B C D E O |
| 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O | 6 | A B C D E O |
| 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O | 7 | A B C D E O |

| 6. ACTIVITY CONDUCTED FOR | | | | | |
|---|---|---|---|---|---|
| COUNTY | | ALL DAUPHIN COUNTY MS4 MUNICIPALITIES | x | SPECIFIC MS4 MUNICIPALITIES (LIST BELOW) | |

7. COMMENTS

# Appendix C - MCM #2

## Londonderry Township

MCM #2: Public Involvement and Participation

- **BMP 1:** Develop, implement and maintain a written Public Involvement/Participation Program (PIPP).
- **BMP 2:** Advertise and solicit public new Stormwater Management Ordinances, Standard Operating Procedures, and Pollutant Reduction Plans (PRPs).
- **BMP 3:** Regularly solicit Public Involvement and Participation via stormwater awareness meetings at the BOS meetings, hosting hands-on workshops on a variety of stormwater topics and host community action projects/volunteer opportunities marketed to target audience, monitor public participation (including IDDE Reporting) to gauge successfulness of educational program.

### PIPP

Londonderry Township, Dauphin County, PA is a Township of approximately 5,200 residents that has decided to conduct a general public meeting to discuss the development and implementation of their stormwater program. The Township has decided to hold several hands-on workshops with a variety of stormwater topics to involve the local community in activities improving stormwater BMPs. In addition, Londonderry Township has decided that working with local partner groups, such as Penn State Extension, will allow them to reach a greater audience and continue to implement community action projects in the surrounding area.

**Minimum Measure Objective:** Involve stakeholder groups, including local governments, businesses, and citizens, in making decisions about stormwater management priorities and programs. Encourage the participation of local residents by hosting several workshops, and developing and implementing programs to help report and discourage illicit discharge and other unwanted activities.

- **BMP 1:** Develop, implement and maintain a written Public Involvement/Participation Program (PIPP)
    - PIPP has been developed and is available on the Township website. Community members can seek involvement in MS4 program via email, Facebook, BOS meetings or in person.
    - PIPP:

- Goal 1: Hold a public stormwater awareness meeting to educate and receive feedback on the MS4 program.
    - The Township will hold one general stormwater awareness meeting in conjunction with a summer Board of Supervisors meeting. The presentation will educate the board and public about general stormwater management for property owners, the Township's MS4 program, and the MS4 permit. A sign-in sheet will be kept to track meeting attendance. Meeting minutes will be documented, and the stormwater awareness meeting will be listed as an agenda item, advertised with flyers and advertised on the Township website and Township Facebook page (See MCM 6).
- Goal 2: Develop and host a hands-on workshop series with a variety of stormwater topics, and continue to develop this program, including keeping a list of target audiences.
    - The Township will hold several hands-on workshops with a variety of stormwater topics to involve the local community in activities improving stormwater BMPs. In addition, Londonderry Township will create connections with local partner groups which will reach a greater audience and expand community action projects in the surrounding area. Workshops provide hands-on learning experience for members of the local community. It also allows Township employees and residents to interact in a smaller setting and provides residents an opportunity to practice and try BMPs that have been discussed. Topics include but are not limited to: rain barrels, composting, rain gardens, urban gardening, introduction of wildlife habitats through gardening, pollinator gardens, pesticide free gardening, and naturalized stormwater meadows. Pamphlets will be distributed at each event. A sign-in sheet, copy of documents, and pictures will be kept for all workshops to track attendance. See Appendix B MCM #1 (Figure 3).
- Goal 3: Hold several coordination meetings with partner groups
    - Londonderry MS4 will involve stakeholder groups, including local governments, businesses, and citizens, in making decisions about stormwater management priorities and programs at monthly BOS meetings.
- Goal 4: Create community volunteer opportunities
    - With the help of partner organizations, the Township will organize at least two community action events per permit year. Action events will

be planned with the objective of improving local stream and watershed quality, as well as improving the MS4. These volunteer opportunities will be published in advanced using the newsletter, Township website, Partner websites, local newspapers and appropriate media. A record of all event materials as well as a list of volunteers in attendance will be kept. Appendix C MCM #2 (Figure 3).

- **Accountability:** Involving stakeholders in the stormwater management planning process will improve support for programs because the stakeholders will be able to voice their concerns and suggestions about the work of the MS4 program. Involving community members will increase education and participation.

- **BMP 2:** Advertise and solicit public on new Stormwater Management Ordinances, Standard Operating Procedures, and Pollutant Reduction Plans (PRPs).
  - Prior to the adoption of any ordinance required by the MS4 permit, adequate public notice will be given as well as opportunities for public review, input and feedback. This notice will be given on Londonderry's website and at relevant BOS meetings.
  - Londonderry's PRP has been developed, and accepted. Any changes to this will be advertised at BOS meeting, on the website, on Facebook and in the Township newsletter.
  - The Annual Report is available on Londonderry Township's website and will be promoted on Facebook. A hard copy will be kept in the Township office, and will be referenced in the relevant BOS meetings.
    - **Accountability**: Londonderry Township will address the public and record minutes at the BOS meetings, allowing the public to comment. The Township website will serve as an outreach method, which will be trackable via google analytics and email responses. Meeting Minuets from BOS meetings are attached in Appendix C MCM #2 (Figure 1)

- **BMP 3:** Regularly solicit Public Involvement and Participating via personal interactions with MS4 Department. Londonderry Township will educate and encourage reporting of Illicit Discharges and publicize the SWMP Via:
  - Londonderry will make efforts to reach the public at their monthly BOS meeting presentation, and once a year at the Stormwater Awareness focused BOS meeting (see MCM 6).
  - With the help of partner organizations like Penn State Extension and Manada Conservancy the Township will organize at least two community action events per permit year. These action events should be planned with the idea of improving local stream and watershed quality, as well as improving the MS4 (tree-plantings, litter clean-ups along stream sides or roadways (target local groups: Boy Scouts, college

environmental groups/clubs, HS sports team [swimmers]). The Township will publish these projects well in advance using the newsletter, Township website, partner websites (Chesapeake Bay Foundation, Penn State Extension), newspapers, and other appropriate media. A record of all event materials and a list of volunteers in attendance will be kept. Partnership Group Meetings are attached in Appendix C MCM #2 (Figure 2).

- Hold several meetings with partner groups**.** The Township will hold coordination meetings involving Penn State Extension, Chesapeake Bay Foundation, Manada Conservancy, Conewago Creek Initiative, Alliance for the Bay and other interested stakeholders to discuss progress of the stormwater management program and upcoming activities/projects at least once every permit year. Municipal Projects for this permit term year are located in Appendix C MCM #2 (Figure 2).

- The Township's education program will prove to be successful with an increase of public awareness, measured by complaints related to stormwater. The Township will document any evidence of public participation by utilizing a tracking system to monitor any information/complaints received by the public pertaining to stormwater management, illicit discharge, construction runoff, and concerns about the storm sewer system. The tracking system consists of a spreadsheet and a call form with the content to be filled in as provided by the public. The content will pertain to the date of the complaint, construction project name, incident type, action taken to resolve the incident/complaint, and the municipal employee initiating the follow-up action. See the Address Illicit Discharge Procedure in the Operations and Maintenance Plan for Illicit Discharge protocol and chain of command. See documentation MCM #3.

    - **Accountability**: Involving the local community in action projects gives citizens a vested interest in their local environment. It also educates and solicits participation from community members. As more citizens become involved in projects like these, hopefully word will spread about MS4 and the importance of keeping the watershed clean.

    - Coordination with other jurisdictions, regulatory agencies, partner organizations, and citizens helps to identify common goals, such as improving water quality, that are not defined by geographic boundaries. Responsibility for tasks that further these common goals can be distributed among these parties to use funding and labor efficiently.

    - Involving the local community in the reporting of illicit discharge and other stormwater hazards will allow the Township to better monitor and care for their jurisdiction. Incidents/complaints will be recorded, resolved, and then filed for future use. These incident reports can later be tracked and plotted to compare higher frequency of occurrences and other statistical data analysis. This line of

communication will also help to improve stormwater awareness in the Township about the locally impaired watershed.

Updated to better align with permit requirements 7/30/2020.

Updated to better align with permit requirements 7/25/2019.

*Updated to reflect current Township programs and abilities 5/3/2018.*

## Appendix C MCM #2 (Figure 1)

### Board of Supervisors Monthly Meetings

**MCM #2: BOS Meetings**

LONDONDERRY TOWNSHIP

**BOS MEETINGS**

HRG Herbert, Rowland & Grubic, Inc. Engineering & Related Services

| Date | Meeting | Meeting Objectives |
|---|---|---|
| 7/1/2019 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 8/5/2019 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 9/3/2019 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 10/7/2019 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 11/4/2019 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 12/2/2019 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 1/6/2020 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 2/3/2020 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 3/2/2020 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 4/6/2020 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 5/4/2020 | Monthly BOS Meeting | Example Appendix C Figure 2 |
| 6/1/2020 | Monthly BOS Meeting | Example Appendix C Figure 2 |

All meeting notes can be found here:

https://www.londonderrypa.org/board-of-supervisors.php#gsc.tab=0

Example of two months are attached below

**Zoning and Codes** – Mr. Jeff Burkhart reported:

a. **Request for Road Closure** – A request was made to temporarily close Laurel Lane for a Halloween Block Party on Saturday, October 19th. Board acknowledged the request. Gave permission for Mr. Letavic will write a letter of approval for the request.

b. **Approval of Planning Module for Small FlowTreatment Facility**
Concerns raised by Planning Commission were submitted to the Board.
Mr. Hershey raised his own concerns, in addition to those raised by the Planning Commission. Discussion was made by the Board, Township Solicitor and Township Engineer. All agreed approval this planning module be denied by DEP. Letter to be prepared for submittal to DEP. Resolution 2019-13 included in the planning module – a plan revision for new land development. Mr. Shellenhamer motioned to approve Seconded by Mr. Kopp. Motion carried to approve Resolution 2019-13 as presented.

**MS-4 Environmental Department** - Ms. Monique Dykman reported:

a. **Updates** – Hired Travis Tacelosky as the Part-time MS4 Intern. Developed and submitted Annual Status Report. Organize your Life Recycling Event presented by Dauphin County Commissioners on October 19 at Westporte Centre Plaza. Will be hosting a Rain Garden, Organic Lawn Care and Native Plant workshop on October 24. Tree planting days along the Swatara Creek – November 8th 1pm-4pm and November 9th 9am-noon. Reception to follow both at Sunset Grill. Additional information available through the MS4 Department.



Mr. Burkhart asked if any further questions. Further discussion was made on the Rte. 230 Diner and the vacant property at 2024 Miller Rd. Mr. Burkhart stated they are continuing to monitor the properties.

**MS 4 Environmental Department** – Ms. Monique Dykman reported:

a. The MS4 Department has committed to ESRI GIS software. This will make collecting data more meaningful, and create a more efficient way to track data. The software will also benefit Public Works, and with the communication between the two departments.

b. The meadow grasses to be planted at Sunset Park and the Golf Course consisting of 5 acres are moving along well. The Township will receive a check for $10,000 to complete the project. Mr. Risteff is looking into the necessary machinery and determining what seed mixes will be needed for planting.

c. The Conewago pre-permit application meeting went very well with DEP and Army Corps of Engineers. They are both on board with the project. The application will be submitted once it is finalized.

d. The NFWF Grant wrapped up very successfully. The study is a byproduct of the grant which produced plans for restoration. The study is a look on how to join forces with other municipalities. See Case Study. Township Manager, Mr. Letavic stated the project will meet the PRP Reduction Plan. The Township is looking for direction from DEP. Excess credits will be available that can be shared with other municipalities.

e. Ms. Dykman attended a workshop on Cover Crops, and she attended the Chesapeake Bay Landscaping Professional training. She is also in the process of looking to hire a part-time intern for the spring. All is going well with the tree planting for the 50th Anniversary Birthday.

# Appendix C MCM #2 (Figure 2)

## Partner Group Meetings

**MCM #2: Meetings With Partner Groups**

LONDONDERRY TOWNSHIP

**PARTNER GROUP MEETINGS**

HRG

| Date | Meeting/Project Name | Meeting Objectives |
|---|---|---|
| 7/17/2019 | MS4 Workgroup | First meeting; discuss goals, meeting frequency |
| 9/12/2019 | MS4 Work Group; | O&M Outline & Discussion |
| 11/12/2019 | Conewago Creek Initative | Update on PRP and montioring |
| 11/12/2019 | Regional Stormwater Feasibility Study | Discuss regional approach to PRP & MS4 |
| 12/3/2019 | Earth Day 2020 Planning Meeting | Planning & site selection |
| 2/5/2020 | CCC Commitment | To learn about a new Penn State grant and Londonderry's involvement |
| 2/24/2020 | CCC Kick off meeting | All CCC partners learning more about grant |
| Mar- Jun Weekly | Master Watershed Stewards | |
| 6/14/2020 | CCI and TetraTech meeting | Reevaluating Conewago WIP |
| | | |

**MS4 Workgroup – Meeting Summary – July 17, 2019**

**Introductions:**

Several members of the MS4 Community spanning over numerous counties in central Pennsylvania met to discuss the creation of a MS4 Workgroup. The meeting was held at the Lower Allen Township Municipal Services Center in Camp Hill, PA. The meeting began with attendee introductions and discussion about the value of creating a workgroup for professionals in the MS4/Stormwater field.

**Topics for Future Meetings:**

The workgroup discussed topics that would be beneficial to put on the agenda for future meetings including:

- **Best Management Practices**
  - Design
  - Maintenance
  - Inspection
  - Training for staff to maintain the facilities
- **Stormwater Fees**
  - Fee enactment
  - Credit & Appeals Policies
  - Public Involvement & Education
- **MS4 Permit Requirements**
  - Public Education & Outreach
  - Good Housekeeping
  - Training – creating innovative topics for staff
  - Illicit Discharges – pools, car washing, etc.
  - 2022 PADEP Model Stormwater Management Ordinance
  - Outfalls – sampling kits & procedures, priority outfalls
- **Grant Funding**
  - Discuss funding opportunities that are currently available
  - Possibly invite guest speakers to discuss funding
- **Network Information Sharing**
  - BMP Inspection forms, presentations, outreach materials
  - How would we accomplish/who is the driver?

**Future Meetings:**

- **Scheduling**
  - Bi-Monthly
  - Several attendees offered to host
  - Invitation of guest speakers
  - Next Meeting Date – TBD – Workgroup members will be notified

**Conewago Creek Initiative**

**November 12, 2019 9:00 AM**

**Londonderry Township, 783 S Geyers Church Rd, Middletown**

**Meeting Agenda**

**I. Welcome and Introductions**
Justin Evans, Kristen Kyler, Monique Dykman, Shawn Fabian, Sarah Xenophon, Rob Frank, Matt Kofroth, Reid Garner

**II. Updates/Ongoing Projects**

**a. NFWF Conewago Chiques Conoy grant**
NFWF officially announced the grant award in October. Going through the contracting now. Will officially start in January including the start of hiring a new staff member for ag outreach. A meeting in the coming weeks will be scheduled with Conoy municipalities to introduce the Ag & Environment Center and the project.

**b. Conewago Creek Restoration Project**
HRG has completed the wetland delineation & surveying for the site. Working on identifying the locations for the soil test pit. The PNDI results came back needing a phase 1 (habitat assessment) for bog turtle. Trenches pits will be dug next week to identify the historic surface. Before the end of the year, LandStudies and HRG will contact property owners with updates. December 2021 is end of the grants.

**c. Conewago Long Term Agroecosystem Research (LTAR)**
Sarah is sampling every week at the restoration site. 4 locations- upstream, at Brills Run, at farm crossing, downstream. Samples being taken to State College for analysis. Water Temperature, nitrogen, phosphorus, total sedimentation. Effort to capture before and after effect of stream restoration.

IBI sampling at the Conewago Restoration Site could also be done before the restoration occurs. Sarah will investigate DEP sampling sites and Rob will look at his spring schedule for sampling.

Additional monitoring efforts are being planned for the Conewago head waters looking at paired sites. Field Slope method (collecting runoff from edge of slope) vs small paired watershed (stream sampling). Sarah exploring the watershed with Pete Kleinman (ARS) to identify potential paired areas. Sarah will be synthesizing data and will share with group for feedback.

**d. Growing Greener grant**
A new grant round is open and due in December. Londonderry interested in applying for grant to fund additional project work in the Conewago. Ag & Environment Center considering applying for funds to match with NFWF CCC grant for project implementation.

**III. Partner Updates**
Rob Frank, Dauphin County Conservation District-

- DCNR buffer grant- buffer of 645 trees was planted along Swatara Creek Road on Nov 8 & 9 with 63 volunteers. Multiple buffers to plant in the spring under the grant.
- Growing Greener grant in northern Dauphin for design and permit of floodplain restoration- first in Dauphin County.
- Dauphin CCD down to 1 Ag Tech.

Justin Evans, Mt Joy Township-

- Applying for funding for Growing Greener for stream restoration in Conoy watershed. Growing Greener funded design and permitting previously.
- West Donegal, E-Town, and Mt. Joy Township have been meeting and discussing regional water quality efforts.

Matt Kofroth, Lancaster County Conservation District

- 319 grant applied for by TCCCA in Conewago over a year and half ago to fund stream restoration work. Matched with 319 funding LCCD has for design. Have not received an update on the funding of the TCCCA grant recently.
- District also has 319 funding for monitoring in Conewingo and Conewaging. Can fund two monitoring sondes to put in the

# Appendix C MCM #2 (Figure 3)

## Municipal Projects

**MCM #2 Volunteer Events**

**Municipal Projects**

| Date Completed | Project Title | Description of Project |
|---|---|---|
| November 8th | Swatara Creek Rd Tree Planting | Planting 350 trees |
| November 9th | Swatara Creek Rd Tree Planting | Planting 225 trees |

38+26 = 64

| | Saturday | TREE PLANTING | | |
|---|---|---|---|---|
| | Name | Email | Affiliation | |
| ✓ 1 | John Wenner | johnwennerjr@gmail.com | k10 | |
| 2 | Bill Pfundheller | bill.p.pals@outlook.com | | |
| ✓ 3 | Sue Snyder Pederson | sues.pederson@gmail.com | GLS | |
| ✓ 4 | Alan Pederson | sues.pederson@gmail.com | GLS | |
| ✓ 5 | Akia Washington | akiawashington94@gmail.com | | |
| ✓ 6 | Essie Karnes | wiccreekra@outlook.com | WCRA | |
| 7 | Marsena Karnes | wiccreekra@outlook.com | WCRA | |
| 8 | Caleb Karnes | wiccreekra@outlook.com | WCRA | |
| ✓ 9 | Ron Boe | wiccreekra@outlook.com | WCRA | |
| ✓ 10 | Rob Frank | RFrank@dauphinc.org | | |
| ✓ 11 | Daryl Stahl | Dsstahl@gmail.com | GLS | |
| ✓ 12 | Donatos Crew | grimal786@gmail.com | Etown | |
| 13 | John Brown | johnhbrown@verizon.net | | |
| 14 | Jared Patota | jaredpatota@gmail.com | GLS | |
| ✓ 15 | Susanna Conti | susannaconti17@gmail.com | | |
| ✓ 16 | Sarah | | GLS | |
| 17 | Teresa Hillwig | Thillwig@aol.com | LTWP | |
| ✓ 18 | Tom Jones | / | LTWP | |
| ✓ 19 | Kathy Jones | toka5357@comcast.net | LTWP | |
| 20 | O'Livia McIntosh | mintosho@etown.edu | | |
| 21 | Alexandra Gates | gatesa23@etown.edu | | |
| 22 | Jenna Heffner | heffnerj1@etown.edu | | |
| 23 | Henry Goldin | goldinh@etown.edu | | |
| 24 | Colton Skinner | skinnerc1@etown.edu | | |
| 25 | John Brown | JOHNHBROWN@VERIZON.NET | | |
| 26 | Daria Fisher | dasstyle1@gmail.com | | |
| 27 | Noel Gulla | NCG6272@gmail.com | | |
| 28 | Susanna Conti | Susannaconti17@gmail.com | | |
| 29 | Julia Brown | brownj@etown.edu | | |
| 30 | Jean Farley | farleyj@etown.edu | | |
| 31 | Vincent Abbatiello | abbatiellovj@etown.edu | | |
| 32 | Ryan Erdel | erdelrd@etown.edu | | |
| 33 | Storm Wilke | Sassitrill@gmail.com | SAE | |
| 34 | Justin Hall | jah6547@psu.edu | SAE | |
| 35 | Gregory Wilson | Gwilson5130@gmail.com | SAE | |

Angelo Usalini
Noel Conti
Andrew S...com
andrewwilson310@gmail.com SAE

| | Friday | TREE PLANTING | | |
|---|---|---|---|---|
| | Name | Email | Affiliation | |
| 1 | John Wenner | johnwennerjr@gmail.com | k10 | ✓ |
| 2 | Marlin Lebo | julesnace@hotmail.com | WCRA | ✓ |
| 3 | Bill Nace | julesnace@hotmail.com | WCRA | ✓ |
| 4 | Mike Hubler | julesnace@hotmail.com | WCRA | ✓ |
| 5 | Sue Snyder Pederson | sues.pederson@gmail.com | GLS | ✓ |
| 6 | Alan Pederson | sues.pederson@gmail.com | GLS | ✓ |
| 7 | Rob Frank | RFrank@dauphinc.org | DCCD | ✓ |
| 8 | Shawn | | HRG | ✓ |
| 9 | Sarah | | GLS | ✓ |
| 10 | Jason | | DCNR | ✓ |
| 11 | Hannah Swope | | Etown | ✓ |
| 12 | Caroline Fegley | | Etown | ✓ |
| 13 | Madison Smith | | | ✓ |
| 14 | Tony Tarczewsky | | | ✓ |
| 15 | Richard Martinez | | | |
| 16 | STEVE KNADY | | | |
| 17 | Anthony Lukens | | | |
| 18 | Bill Pfundheller | | | |
| 19 | Tamika Strade | | | |
| 20 | Michael Strade | | | |

13

Collin Flores
George Wilbore
Willebo
Robert Neff
Austin Graham
Kevin Kauffman
Rafael MARTINEZ JR
PETER O BAKER
Yaw Shepard yawshepard1993@gmail.com

- Sean Roberts
Seanroberts12@yahoo.com

# Appendix D – MCM #3

Londonderry Township

## *MCM #3: Illicit Discharge Detection and Elimination Minimum Measures*

- **BMP 1:** Maintain a written procedure for IDD&E by:
    - **BMP 1A:** Identify priority areas.
    - **BMP 1B:** Determine procedures for screening outfalls in priority areas, once determined, identify source, and determine how to eliminate.
    - **BMP 1C:** Maintain procedures to handle sewage disposal systems as the cause for an illicit discharge.
    - **BMP 1D:** Gain access to private property to inspect outfalls.
    - **BMP 1E:** Procedures for program documentation, evaluation and assessment.
    - **BMP 1F:** Procedures for addressing information, or complaints received from the public**.**
- **BMP 2:** Develop and maintain Urbanized Area map and locations of outfalls and observation points.
- **BMP 3:** Expand map to throughout MS4 jurisdiction; include entire storm sewer collection system owned and maintained by Londonderry Township, additionally include privately owned components.
- **BMP 4:** Conduct dry weather screenings of the MS4 outfalls to evaluate the presence of illicit discharges. If detected, follow procedures outlined in Objective1.
- **BMP 5:** Maintain and update Stormwater Management Ordinance/Standard Operating Procedure in order to enforce SWMP that to eliminate non-stormwater discharges.
- **BMP 6:** Provide educational outreach to target audience about the program to detect and eliminate illicit discharges.

### IDD&E

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has implemented an Illicit Discharge Detection & Elimination (IDD&E) system to best manage storm water regulations as required by their MS4 permit. The IDD&E program will utilize several existing procedures as well as develop new ideas to best eliminate illicit discharges into the MS4.

**Minimum Measure Objective:** The purpose of the IDD&E program is to establish and carry out procedures to identify and remove illicit discharges, establish legal authority for enforcement actions,

and encourage public education and involvement in eliminating illicit discharges. The illicit discharge elimination program will also allow the Township to continue to develop the comprehensive map of the storm drain system.

- **BMP 1:** <u>Maintain a written procedure for IDD&E by:</u>
    - **BMP 1A:** Identify priority areas.
        - This will be determined based on where illicit discharges have been detected previously, or in highly urbanized areas. See BMP 1E.
    - **BMP 1B:** Determine procedures for: A) screening outfalls in priority areas, once determined, identify source, and determine how to eliminate; and B) addressing information, or complaints received from the public**.**
        - See document "Londonderry Township Addressing Illicit Discharge Procedure"; in Appendix D MCM #3 (Figure 1). Fill out top portion of "Londonderry Township MS4 Concern Form", See Appendix D mcm #3 (Figure 1) Illicit Discharge Stormwater Concern Form should be handled via "Illicit Discharge Reporting Flow Chart" See: Appendix D MCM #3 (Figure 1) Illicit Discharge Chain of Command [or MS4 Coordinator (if not available direct to Codes and Zoning Officer, then Township Manager)]. MS4 coordinator will conduct evaluation of discharge to determine if illicit. If illicit, MS4 coordinator will evaluate cause of discharge, provide education and if needed contact local authority to administer fine.
            - If the spill is large, or otherwise uncontrollable, or possesses immediate danger to life, the environment, or property call 911 or South-Central Emergency 24/7 number: 717-705-4700.
        - All reports will be evaluated as outlined in BMP 1E.
    - **BMP 1C:** Maintain procedures to handle sewage disposal systems as the cause for an illicit discharge.
        - The Township has enacted an Ordinance in 2013 for O.L.S.D.S. and works to educate the public via newsletter and Township website. Website connects visitors to certified Pumper-Haulers.
        - Reports of faulty sewage disposal system, MS4 Coordinator will conduct site visit, and administer tests as necessary.
    - **BMP 1D:** Gain access to private property to inspect outfalls.

- **BMP 1E:** Procedures for program documentation, evaluation and assessment.
    - Each year, during the annual report development, the IDD&E program will be evaluated and updated accordingly. Any newly constructed outfalls will be added to the map. All IDD&E reports will be compiled to ensure that all citizen concerns have been addressed. Township staff will review MS4 concern forms, specifically the outcomes of these cases. If staff notices a specific area in the Township has an unusually high volume, or an area has an increase in reports as compared to years past, these may be indicators that changes need to be made to procedures, education, and the focus of minimum control measures redirected. These files will be reviewed for completion, and a summary report will be compiled for the annual report, documenting the follow-up action taken for each report. Files are included in Annual Report in Appendix D MCM #3 (Figure 1) and Appendix D MCM #3 (Figure 2).
- **BMP 1F:** Procedures for addressing information, or complaints received from the public **is** addressed in Appendix D MCM #3 (Figure 1).

  **Accountability:** The Township will continue to develop their IDD&E, utilizing call forms and training sessions. Reviewing the IDD&E program will help staff to understand which parts of the program are working successfully or unsuccessfully, and will ensure the completion of all reports, and the amendment of stormwater issues, prior to the compilation of the annual report. In the summer of the current permit year, a training session will be held for each municipal staff department (office staff, public works, golf course, and codes/zoning). The Township phone number and Environmental Department cell phone number will be published as a reminder for citizens to report illegal dumping and suspicious discharges. The phone number will be advertised in the Township newsletter, bulletin board, website, and Facebook.

- **BMP 2:** <u>Develop and maintain Urbanized Area map and locations of outfalls and observation points. Expand map to throughout MS4 jurisdiction; include entire storm sewer collection system owned and maintained by Londonderry Township, additionally include privately owned components.</u>
    - Londonderry Township utilizes HRG's mapping system to maintain records of outfalls, observation points, storm sewer collection systems and is working to include privately owned components.
- **BMP 3:** <u>Expand map to throughout MS4 jurisdiction; include entire storm sewer collection system owned and maintained by Londonderry Township, additionally include privately owned components.</u>
    - Londonderry Township continues to develop the mapping system through a newly acquired contract with ARC GIS and utilizes HRG as mentors. Londonderry Township will

continue to update and monitor the storm sewer system and privately-owned components.

- **BMP 4:** Conduct dry weather screenings of the MS4 outfalls to evaluate the presence of illicit discharges. If detected, follow procedures outlined in Objective1. See Appendix D MCM #3 (Figure 3).
    - 25% of all outfalls will be inspected annually by the MS4 Department. These unmapped outfalls will be investigated and the source will be identified using a number of techniques outlined in the IDD&E program. The schedule for outfall inspections is as follows (refer to the Londonderry Outfall map for outfall numbers):
        - **Inspection Cycle Year 1: (Quadrant #1)** Outfalls #171 – 223 [53 Outfalls]
        - **Inspection Cycle Year 2: (Quadrant #2)** Outfalls #113 – 170 [58 Outfalls]
        - **Inspection Cycle Year 3: (Quadrant #3)** Outfalls #1 – 14 & #76 – 112 [51 Outfalls]
        - **Inspection Cycle Year 4: (Quadrant #4)** Outfalls #15 – 75 [61 Outfalls]
    - *Any newly constructed outfalls should be added to the map at the end of the permit year and visited in the subsequent permit year.*
    - The township will work to incorporate an electronic database collection system to better organize and utilize data collected. All outfall inspections will be reported on DEP MS4 Outfall Field Screening Report.
- *2020 note: Due to COVID-19 and seasonal conditions Londonderry MS4 Department were only able to survey 9 of the outfalls in the MS4. However, in future permit years, we have no doubt that we will be able to survey 100% of outfalls in the MS4, along with additional outfalls within the municipality.
    - If dry weather screenings produce flow, refer to BMP 3E.
        - **Accountability:** The MS4 infrastructure map will be utilized in ascertaining the areas of greatest concern, tracing back illicit discharges to their source, eliminating illicit connections, and overall asset management as the storm sewer system is upgraded over time.
- **BMP 5:** Maintain and update Stormwater Management Ordinance/Standard Operating Procedure in order to enforce SWMP that to eliminate non-stormwater discharges.
    - **See MCM #2 BMP 2**
- **BMP 6:** Provide educational outreach to target audience about the program to detect and eliminate illicit discharges.
    - **See MCM #2 BMP 3**

- **Accountability** Phone contacts will supplement the municipality's own efforts of physically conducting outfall inspections. Advertisement of the program and contact information will promote public awareness of their responsibility to report illicit discharges and avoid causing an illicit discharge. A Township goal is to facilitate the clean-up and remediation of illegal discharge sites, which have the potential to contaminate surface and ground water sources. The intent is to promote the IDD&E program to improve public involvement and help inform the public about the hazards of illicit discharges and illegal dumping.

# Appendix D MCM #3 (Figure 1)

## Illicit Discharge Procedure

### Londonderry Township

### Addressing Illicit Discharge Procedure

Follow these steps to insure a proper illicit discharge reporting procedure

1. Reporting the illicit discharge
    a. For calls into the Township Office, direct the call to the MS4 Coordinator
        i. If they are not available, proceed to step 2
        ii. If the spill is large or otherwise uncontrollable, or possesses immediate danger to life, the environment, or property; ask for the person's location and tell them to hang up and dial 911
    b. For staff found illicit discharges proceed to step 2
2. Fill out the top portion of the "Londonderry Township MS4 Concern Form"
3. Give the form to the MS4 Coordinatior
    a. If they are not available, give form to the codes and zoning officer
        i. If they are not available give form to the Township Manager.
4. The MS4 Coordinator, Codes and Zoning Officer, or Township Manager has a maximum of 1 business day to respond. Response is carried out through…
    a. Field visit
        i. During field visits, there must always be two people
    b. Take pictures
    c. Conduct water tests if needed- contact HRG for assistance when needed
    d. Fill out field report

i. If there is no way to determine an actual illicit discharge, we will continue to check the site from time to time.

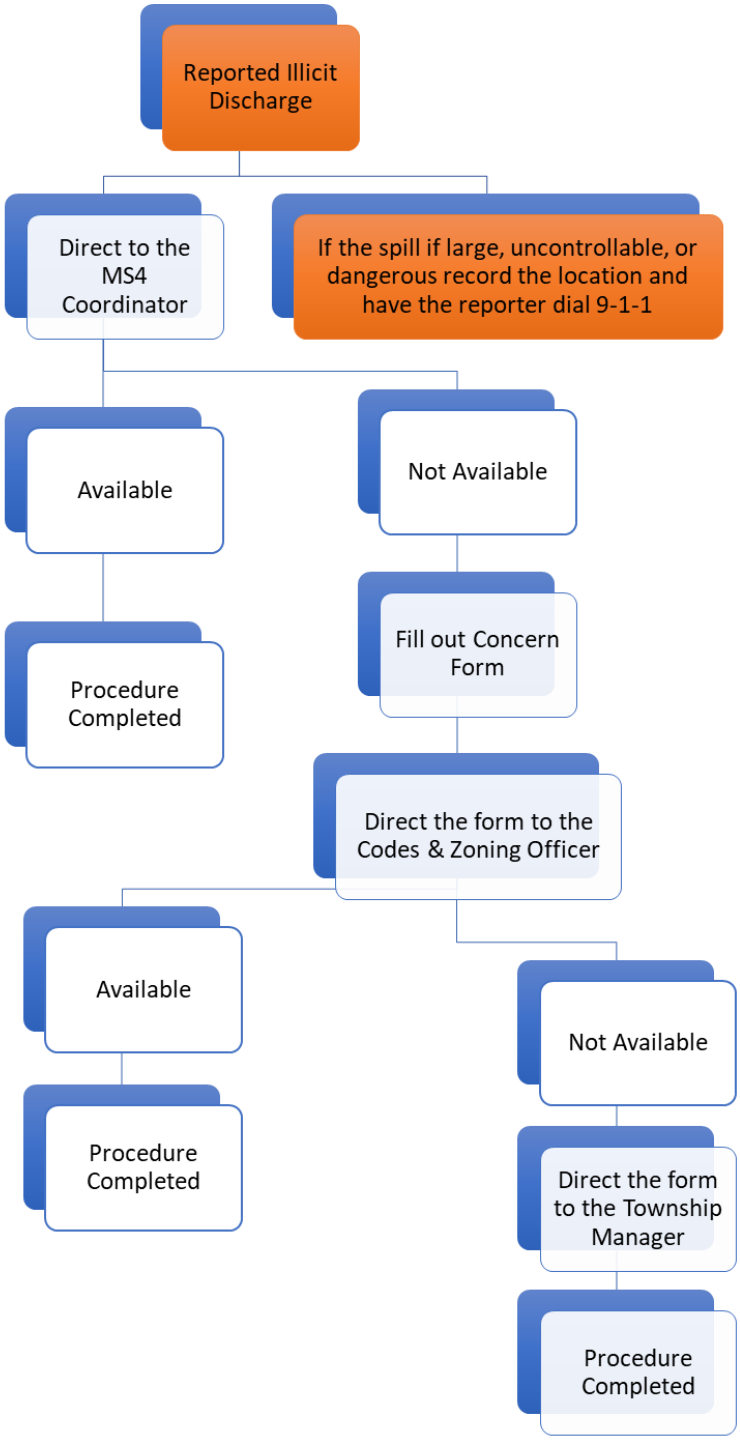
2. If illicit discharge is grey water, SEO must be contacted
3. The MS4 Coordinator will then bring back the findings and determine:
    a. How to fix the problem
    b. Who is responsible
    c. Is this a public works or codes issue
    d. If it is a codes issue; The Code/Zoning Officer will then issue a notice of violation within 72 hours of call
        i. Yellow notice on door
        ii. Both a certified and non-certified letter
4. The Code/Zoning Officer will determine the appropriate time frame on resident resolution within the enforcement ordinance and confirm with resident that the time frame is achievable

Updated to better align with permit requirements 7/25/2019.

*Updated to reflect current township programs and abilities 6/10/19.*

Personnel changes

## Illicit Discharge Chain of Command



Illicit Discharge Stormwater Concern Form

## Londonderry Township Stormwater Concern Form

Date of Concern:

Concerned Party Name(s):

Concerned Party Telephone Number:

Discharge Address/Location:

Discharge Description:

---

**FOLLOW-UP INSPECTION**

Date of Inspection:

Investigator(s):

Type of Issue:

| | | |
|---|---|---|
| ☐ BMP Performance | ☐ Illicit Discharge | ☐ Post-Construction Stormwater |
| ☐ Construction Stormwater | ☐ Inlet/Pipe/Headwall Performance | ☐ Swale Performance |
| ☐ Erosion | ☐ Poor Drainage | ☐ Other: |

Observations:

Pictures? ☐Yes ☐No

Recommendations:

---

**FOLLOW-UP ACTION TAKEN**

Date of Action:

Action Team:

Actions Taken:

Pictures? ☐Yes ☐No
Date Action Reported to MS4 Coordinator:
MS4 Coordinator Initials (in agreement that no further action can be taken):

## Appendix D MCM #3 (Figure 2)

### Illicit Discharge Reports

**MCM #2/MCM #3 - Public reporting of suspected illicit discharges/Establish an illicit discharge/illegal dumping reporting program**

LONDONDERRY TOWNSHIP

**MUNICIPAL STORMWATER ILLICIT DISCHARGE REPORTS**

HRG Herbert, Rowland & Grubic, Inc. Engineering & Related Services

| Date | Name of Person Reporting the Incident | Reporter Contact Info (Phone #/Email) | Location | Incident Type | Date Followed up | Followed-Up By: | Resolved (Y/N) | |
|---|---|---|---|---|---|---|---|---|
| 10/31/2019 | May Beverly | bmay6729@yahoo.com | 173 School House rd | Looking into neighbors discharge | 11/1 gave home testing kit | Monique | | See email chains |
| 4/30/2020 | Mary Groff | 717-944-0747 | 147 School House rd | Neighbors with above. Stopped by public works and spoke to Andy. Andy stopped by at 3 pm that day and saw nothing unusual. | 5/8/2020 | Monique | Offered to give her a rainbarrel, her husband will call me back | |

Reported Illicit discharge incidents. We have followed up on the situation, seems to be an ongoing neighborly dispute within the township.

## Appendix D MCM #3 (Figure 3)

### Dry Weather Inspections

5800-PM-BCW0033
MS4 Outfall Field Screening Report

pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

LONDONDERRY TOWNSHIP

**MS4 OUTFALL FIELD SCREENING REPORT**

| BACKGROUND INFORMATION | |
|---|---|
| Permittee Name: Londonderry Township | NPDES Permit No.: PA133547 |
| Date of Inspection: May 21, 2020 | Outfall ID No.: 82 |
| Land Uses in Outfall Drainage Area (Select All): ☐ Industrial ☐ Urban Residential ☐ Commercial ☑ Suburban Residential ☐ Open Space ☐ Other | Latitude: 40.21218929 |
| | Longitude: -76.71951029 |
| | Dry Weather Inspection? Yes |
| | Date of Previous Precipitation: May 9, 2020 |
| | Amount of Previous Precipitation (in): 0.53 |
| | Were Photographs Taken? Yes |
| Inspector Name(s): Md | Are Photographs Attached? Yes |

| OUTFALL DESCRIPTION | | | | |
|---|---|---|---|---|
| TYPE | MATERIAL | SHAPE | DIMENSIONS | SUBMERGED |
| ☐ Closed Pipe | ☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other | ☐ Circular ☐ Single ☐ Elliptical ☐ Double ☐ Box ☐ Triple | Diameter: in | ☐ In Water ☐ With Sediment |
| ☐ Open Pipe | ☐ Concrete ☐ Earthen ☐ Rip-Rap ☐ Other | ☐ Trapezoid ☐ Parabolic ☐ Other | Depth: in Top Width: in Bottom Width: in | |

Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No

Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☐ N/A

| DRY WEATHER FLOW EVALUATION |
|---|
| Does the dry weather flow contain color? ☐ Yes ☐ No If yes, provide a description below. |
| Does the dry weather flow contain odor? ☐ Yes ☐ No If yes, provide a description below. |
| Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No If yes, provide a description below. |
| Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No If yes, provide a description below. |
| 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: | | mg/L | Oil and Grease | | mg/L |
| Other: | | mg/L | | | mg/L |

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

**ILLICIT DISCHARGES**

Is the dry weather flow an illicit discharge? ☐ Yes ☐ No

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:

**RESPONSIBLE OFFICIAL CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

| | |
|---|---|
| Monique Dykman | Signature |
| Responsible Official Name | |
| 7174610027 | May 21, 2020 |
| Telephone No. | Date |

**Outfall Photograph:**

May 21, 2020

5800-PM-BCW0033
MS4 Outfall Field Screening Report

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

LONDONDERRY TOWNSHIP

## MS4 OUTFALL FIELD SCREENING REPORT

| BACKGROUND INFORMATION | |
|---|---|
| Permittee Name: Londonderry Township | NPDES Permit No.: PA133547 |
| Date of Inspection: May 21, 2020 | Outfall ID No.: 83 |
| Land Uses in Outfall Drainage Area (Select All):<br>☐ Industrial ☐ Urban Residential<br>☐ Commercial ☑ Suburban Residential<br>☐ Open Space ☐ Other | Latitude: 40.21291078<br>Longitude: -76.72022697<br>Dry Weather Inspection? Yes<br>Date of Previous Precipitation: May 9, 2020<br>Amount of Previous Precipitation (in): 0.53<br>Were Photographs Taken? Yes |
| Inspector Name(s): | Are Photographs Attached? Yes |

| OUTFALL DESCRIPTION | | | | |
|---|---|---|---|---|
| TYPE | MATERIAL | SHAPE | DIMENSIONS | SUBMERGED |
| ☑ Closed Pipe | ☐ RCP ☐ CMP<br>☐ PVC ☐ HDPE<br>☑ Steel ☐ Other | ☑ Circular ☐ Single<br>☐ Elliptical ☐ Double<br>☐ Box ☐ Triple | Diameter: in | ☐ In Water ☐ With Sediment |
| ☐ Open Pipe | ☐ Concrete<br>☐ Earthen<br>☐ Rip-Rap<br>☐ Other | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other | Depth: in<br>Top Width: in<br>Bottom Width: in | |
| Dry Weather Flow Present at Outfall During Inspection? ☑ Yes ☐ No | | | | |
| Description of Flow Rate: ☑ Trickle ☐ Moderate ☐ Significant ☐ N/A | | | | |

| DRY WEATHER FLOW EVALUATION |
|---|
| Does the dry weather flow contain color? ☐ Yes ☑ No If yes, provide a description below. |
| Does the dry weather flow contain odor? ☐ Yes ☑ No If yes, provide a description below. |
| Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☑ No<br>If yes, provide a description below. |
| Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☑ No<br>If yes, provide a description below. |
| 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: | | mg/L | Oil and Grease | | mg/L |
| Other: | | mg/L | | | mg/L |

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

| ILLICIT DISCHARGES |
|---|
| Is the dry weather flow an illicit discharge? ☐ Yes ☑ No<br>Describe efforts made to determine the source(s) of the illicit discharge.<br><br>Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.<br><br>Inspector Comments: |

| RESPONSIBLE OFFICIAL CERTIFICATION | |
|---|---|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | |
| Monique Dykman | |
| Responsible Official Name | Signature |
| 7174610027 | May 21, 2020 |
| Telephone No. | Date |

**Outfall Photograph:**

May 21, 2020

5800-PM-BCW0033
MS4 Outfall Field Screening Report

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

LONDONDERRY TOWNSHIP

## MS4 OUTFALL FIELD SCREENING REPORT

| BACKGROUND INFORMATION | |
|---|---|
| Permittee Name: Londonderry Township | NPDES Permit No.: PA133547 |
| Date of Inspection: May 21, 2020 | Outfall ID No.: 86 |
| Land Uses in Outfall Drainage Area (Select All):<br>☐ Industrial ☐ Urban Residential<br>☐ Commercial ☑ Suburban Residential<br>☐ Open Space ☐ Other | Latitude: 40.21034106<br>Longitude: -76.71690068<br>Dry Weather Inspection? Yes<br>Date of Previous Precipitation: May 9, 2020<br>Amount of Previous Precipitation (in): 0.53<br>Were Photographs Taken? Yes |
| Inspector Name(s): Md | Are Photographs Attached? Yes |

| OUTFALL DESCRIPTION | | | | |
|---|---|---|---|---|
| TYPE | MATERIAL | SHAPE | DIMENSIONS | SUBMERGED |
| ☑ Closed Pipe | ☑ RCP ☐ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel ☐ Other | ☑ Circular ☐ Single<br>☐ Elliptical ☐ Double<br>☐ Box ☐ Triple | Diameter: in | ☐ In Water ☐ With Sediment |
| ☐ Open Pipe | ☐ Concrete<br>☐ Earthen<br>☐ Rip-Rap<br>☐ Other | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other | Depth: in<br>Top Width: in<br>Bottom Width: in | |
| Dry Weather Flow Present at Outfall During Inspection? ☑ Yes ☐ No | | | | |
| Description of Flow Rate: ☐ Trickle ☐ Moderate ☑ Significant ☐ N/A | | | | |

| DRY WEATHER FLOW EVALUATION |
|---|
| Does the dry weather flow contain color? ☐ Yes ☑ No If yes, provide a description below. |
| Does the dry weather flow contain odor? ☐ Yes ☑ No If yes, provide a description below. |
| Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☑ No<br>If yes, provide a description below. |
| Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☑ No<br>If yes, provide a description below. |
| 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) | 0 | mg/L | BOD5 | | mg/L |
| Conductivity | | µmhos/cm | TSS | | mg/L |
| Ammonia-Nitrogen | | mg/L | TDS | | mg/L |
| Other: Nitrite | 0 | mg/L | Oil and Grease | | mg/L |
| Other: Nitrate | 0 | mg/L | | | mg/L |

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

| ILLICIT DISCHARGES |
|---|
| Is the dry weather flow an illicit discharge? ☐ Yes ☑ No<br>Describe efforts made to determine the source(s) of the illicit discharge.<br><br>Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.<br><br>Inspector Comments: |

| RESPONSIBLE OFFICIAL CERTIFICATION | |
|---|---|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | |
| Monique Dykman | |
| Responsible Official Name | Signature |
| 7174610027 | May 21, 2020 |
| Telephone No. | Date |

**Outfall Photograph:**

May 21, 2020

5800-PM-BCW0033
MS4 Outfall Field Screening Report

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

LONDONDERRY TOWNSHIP

## MS4 OUTFALL FIELD SCREENING REPORT

| BACKGROUND INFORMATION | |
|---|---|
| Permittee Name: Londonderry Township | NPDES Permit No.: PA133547 |
| Date of Inspection: May 21, 2020 | Outfall ID No.: 87 |
| Land Uses in Outfall Drainage Area (Select All):<br>☐ Industrial ☐ Urban Residential<br>☐ Commercial ☑ Suburban Residential<br>☐ Open Space ☐ Other | Latitude: 40.20907225<br>Longitude: -76.71575804<br>Dry Weather Inspection? Yes<br>Date of Previous Precipitation: May 9, 2020<br>Amount of Previous Precipitation (in): 0.53<br>Were Photographs Taken? Yes |
| Inspector Name(s): Monique Dykman | Are Photographs Attached? Yes |

| OUTFALL DESCRIPTION | | | | |
|---|---|---|---|---|
| TYPE | MATERIAL | SHAPE | DIMENSIONS | SUBMERGED |
| ☑ Closed Pipe | ☐ RCP ☐ CMP<br>☐ PVC ☑ HDPE<br>☐ Steel ☐ Other | ☑ Circular ☐ Single<br>☐ Elliptical ☐ Double<br>☐ Box ☐ Triple | Diameter: in | ☐ In Water ☐ With Sediment |
| ☐ Open Pipe | ☐ Concrete<br>☐ Earthen<br>☐ Rip-Rap<br>☐ Other | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other | Depth: in<br>Top Width: in<br>Bottom Width: in | |
| Dry Weather Flow Present at Outfall During Inspection? ☑ Yes ☐ No | | | | |
| Description of Flow Rate: ☐ Trickle ☐ Moderate ☑ Significant ☐ N/A | | | | |

| DRY WEATHER FLOW EVALUATION |
|---|
| Does the dry weather flow contain color? ☐ Yes ☑ No If yes, provide a description below. |
| Does the dry weather flow contain odor? ☐ Yes ☑ No If yes, provide a description below. |
| Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☑ No<br>If yes, provide a description below. |
| Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☑ No<br>If yes, provide a description below. |
| 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) | 0 | mg/L | BOD5 | | mg/L |
| Conductivity | | µmhos/cm | TSS | | mg/L |
| Ammonia-Nitrogen | | mg/L | TDS | | mg/L |
| Other: Nitrite | 0 | mg/L | Oil and Grease | | mg/L |
| Other: Nitrate | 0 | mg/L | | | mg/L |

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

| ILLICIT DISCHARGES |
|---|
| Is the dry weather flow an illicit discharge? ☐ Yes ☑ No<br>Describe efforts made to determine the source(s) of the illicit discharge.<br><br>Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.<br><br>Inspector Comments: |

| RESPONSIBLE OFFICIAL CERTIFICATION | |
|---|---|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | |
| Monique Dykman | |
| Responsible Official Name | Signature |
| 7174610027 | May 21, 2020 |
| Telephone No. | Date |

**Outfall Photograph:**

May 21, 2020

3800-FM-BCW0215
MS4 Outfall Field Screening Report

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

LONDONDERRY TOWNSHIP

## MS4 OUTFALL FIELD SCREENING REPORT

| BACKGROUND INFORMATION | |
|---|---|
| Permittee Name: Londonderry Township | NPDES Permit No.: PA133547 |
| Date of Inspection: May 21, 2020 | Outfall ID No.: 88 |
| Land Uses in Outfall Drainage Area (Select All):<br>☐ Industrial ☐ Urban Residential<br>☐ Commercial ☑ Suburban Residential<br>☐ Open Space ☐ Other | Latitude: 40.20582648<br>Longitude: -76.71254565<br>Dry Weather Inspection? Yes<br>Date of Previous Precipitation: May 9, 2020<br>Amount of Previous Precipitation (in): 0.53<br>Were Photographs Taken? Yes |
| Inspector Name(s): Monique Dykman | Are Photographs Attached? Yes |

| OUTFALL DESCRIPTION | | | | |
|---|---|---|---|---|
| TYPE | MATERIAL | SHAPE | DIMENSIONS | SUBMERGED |
| ☑ Closed Pipe | ☐ RCP ☐ CMP<br>☐ PVC ☐ HDPE<br>☑ Steel ☐ Other | ☑ Circular ☐ Single<br>☐ Elliptical ☐ Double<br>☐ Box ☐ Triple | Diameter: in | ☐ In Water ☐ With Sediment |
| ☐ Open Pipe | ☐ Concrete<br>☐ Earthen<br>☐ Rip-Rap<br>☐ Other | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other | Depth: in<br>Top Width: in<br>Bottom Width: in | |
| Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No | | | | |
| Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☑ N/A | | | | |

| DRY WEATHER FLOW EVALUATION |
|---|
| Does the dry weather flow contain color? ☐ Yes ☐ No If yes, provide a description below. |
| Does the dry weather flow contain odor? ☐ Yes ☐ No If yes, provide a description below. |
| Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No<br>If yes, provide a description below. |
| Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No<br>If yes, provide a description below. |
| 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: | | mg/L | Oil and Grease | | mg/L |
| Other: | | mg/L | | | mg/L |

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

| ILLICIT DISCHARGES |
|---|
| Is the dry weather flow an illicit discharge? ☐ Yes ☑ No<br>Describe efforts made to determine the source(s) of the illicit discharge.<br><br>Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.<br><br>Inspector Comments: |

| RESPONSIBLE OFFICIAL CERTIFICATION | |
|---|---|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | |
| Monique Dykman<br>Responsible Official Name | Signature |
| 7174610027<br>Telephone No. | May 21, 2020<br>Date |

**Outfall Photograph:**

May 21, 2020

3800-FM-BCW0215
MS4 Outfall Field Screening Report

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

LONDONDERRY TOWNSHIP

## MS4 OUTFALL FIELD SCREENING REPORT

| BACKGROUND INFORMATION | |
|---|---|
| Permittee Name: Londonderry Township | NPDES Permit No.: PA133547 |
| Date of Inspection: May 21, 2020 | Outfall ID No.: 91 |
| Land Uses in Outfall Drainage Area (Select All):<br>☐ Industrial ☐ Urban Residential<br>☐ Commercial ☐ Suburban Residential<br>☑ Open Space ☑ Other | Latitude: 40.20429519<br>Longitude: -76.71339635<br>Dry Weather Inspection? Yes<br>Date of Previous Precipitation: May 9, 2020<br>Amount of Previous Precipitation (in): 0.53<br>Were Photographs Taken? Yes |
| Inspector Name(s): Monique Dykman | Are Photographs Attached? Yes |

| OUTFALL DESCRIPTION | | | | |
|---|---|---|---|---|
| TYPE | MATERIAL | SHAPE | DIMENSIONS | SUBMERGED |
| ☑ Closed Pipe | ☐ RCP ☐ CMP<br>☐ PVC ☐ HDPE<br>☑ Steel ☐ Other | ☑ Circular ☐ Single<br>☐ Elliptical ☐ Double<br>☐ Box ☐ Triple | Diameter: in | ☐ In Water<br>☑ With Sediment |
| ☐ Open Pipe | ☐ Concrete<br>☐ Earthen<br>☐ Rip-Rap<br>☐ Other | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other | Depth: in<br>Top Width: in<br>Bottom Width: in | |
| Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No | | | | |
| Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☑ N/A | | | | |

| DRY WEATHER FLOW EVALUATION |
|---|
| Does the dry weather flow contain color? ☐ Yes ☐ No If yes, provide a description below. |
| Does the dry weather flow contain odor? ☐ Yes ☐ No If yes, provide a description below. |
| Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No<br>If yes, provide a description below. |
| Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No<br>If yes, provide a description below. |
| 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: | | mg/L | Oil and Grease | | mg/L |
| Other: | | mg/L | | | mg/L |

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

| ILLICIT DISCHARGES |
|---|
| Is the dry weather flow an illicit discharge? ☐ Yes ☐ No<br>Describe efforts made to determine the source(s) of the illicit discharge.<br><br>Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.<br><br>Inspector Comments: |

| RESPONSIBLE OFFICIAL CERTIFICATION | |
|---|---|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | |
| Monique Dykman<br>Responsible Official Name | Signature |
| 7174610027<br>Telephone No. | May 21, 2020<br>Date |

**Outfall Photograph:**

May 21, 2020

3800-PM-BCW0031
MS4 Outfall Field Screening Report

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

LONDONDERRY TOWNSHIP

## MS4 OUTFALL FIELD SCREENING REPORT

| BACKGROUND INFORMATION | |
|---|---|
| Permittee Name: Londonderry Township | NPDES Permit No.: PA133547 |
| Date of Inspection: May 21, 2020 | Outfall ID No.: 226 |
| Land Uses in Outfall Drainage Area (Select All):<br>☐ Industrial ☐ Urban Residential<br>☐ Commercial ☐ Suburban Residential<br>☑ Open Space ☑ Other | Latitude: 40.20388916 |
| | Longitude: -76.71345182 |
| | Dry Weather Inspection? Yes |
| | Date of Previous Precipitation: May 9, 2020 |
| | Amount of Previous Precipitation (in): 0.53 |
| | Were Photographs Taken? Yes |
| Inspector Name(s): Monique Dykman | Are Photographs Attached? Yes |

| OUTFALL DESCRIPTION | | | | |
|---|---|---|---|---|
| TYPE | MATERIAL | SHAPE | DIMENSIONS | SUBMERGED |
| ☑ Closed Pipe | ☐ RCP ☐ CMP<br>☐ PVC ☐ HDPE<br>☑ Steel ☐ Other | ☑ Circular ☐ Single<br>☐ Elliptical ☐ Double<br>☐ Box ☐ Triple | Diameter: in | ☐ In Water ☐ With Sediment |
| ☐ Open Pipe | ☐ Concrete<br>☐ Earthen<br>☐ Rip-Rap<br>☐ Other | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other | Depth: in<br>Top Width: in<br>Bottom Width: in | |
| Dry Weather Flow Present at Outfall During Inspection? ☑ Yes ☐ No | | | | |
| Description of Flow Rate: ☑ Trickle ☐ Moderate ☐ Significant ☐ N/A | | | | |

| DRY WEATHER FLOW EVALUATION |
|---|
| Does the dry weather flow contain color? ☐ Yes ☑ No If yes, provide a description below. |
| Does the dry weather flow contain odor? ☐ Yes ☑ No If yes, provide a description below. |
| Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☑ No<br>If yes, provide a description below. |
| Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☑ No<br>If yes, provide a description below. |
| 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 | 0 | mg/L | TDS | | mg/L |
| Other: Temp | 64.4 | mg/L | Oil and Grease | | mg/L |
| Other: Nitrate | 2 | mg/L | | | mg/L |

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

| ILLICIT DISCHARGES |
|---|
| Is the dry weather flow an illicit discharge? ☐ Yes ☑ No<br>Describe efforts made to determine the source(s) of the illicit discharge.<br><br>Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.<br><br>Inspector Comments: |

| RESPONSIBLE OFFICIAL CERTIFICATION | |
|---|---|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | |
| Monique Dykman | MD |
| Responsible Official Name | Signature |
| 7174610027 | May 21, 2020 |
| Telephone No. | Date |

**Outfall Photograph:**

May 21, 2020

3800-PM-BCW0031
MS4 Outfall Field Screening Report

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

LONDONDERRY TOWNSHIP

## MS4 OUTFALL FIELD SCREENING REPORT

| BACKGROUND INFORMATION | |
|---|---|
| Permittee Name: Londonderry Township | NPDES Permit No.: PA133547 |
| Date of Inspection: May 21, 2020 | Outfall ID No.: 288 |
| Land Uses in Outfall Drainage Area (Select All):<br>☐ Industrial ☐ Urban Residential<br>☐ Commercial ☑ Suburban Residential<br>☐ Open Space ☐ Other | Latitude: 40.21045618 |
| | Longitude: -76.71868626 |
| | Dry Weather Inspection? Yes |
| | Date of Previous Precipitation: May 9, 2020 |
| | Amount of Previous Precipitation (in): 0.53 |
| | Were Photographs Taken? Yes |
| Inspector Name(s): Md | Are Photographs Attached? Yes |

| OUTFALL DESCRIPTION | | | | |
|---|---|---|---|---|
| TYPE | MATERIAL | SHAPE | DIMENSIONS | SUBMERGED |
| ☑ Closed Pipe | ☑ RCP ☐ CMP<br>☐ PVC ☐ HDPE<br>☐ Steel ☐ Other | ☑ Circular ☐ Single<br>☐ Elliptical ☐ Double<br>☐ Box ☐ Triple | Diameter: in | ☐ In Water ☐ With Sediment |
| ☐ Open Pipe | ☐ Concrete<br>☐ Earthen<br>☐ Rip-Rap<br>☐ Other | ☐ Trapezoid<br>☐ Parabolic<br>☐ Other | Depth: in<br>Top Width: in<br>Bottom Width: in | |
| Dry Weather Flow Present at Outfall During Inspection? ☐ Yes ☑ No | | | | |
| Description of Flow Rate: ☐ Trickle ☐ Moderate ☐ Significant ☑ N/A | | | | |

| DRY WEATHER FLOW EVALUATION |
|---|
| Does the dry weather flow contain color? ☐ Yes ☐ No If yes, provide a description below. |
| Does the dry weather flow contain odor? ☐ Yes ☐ No If yes, provide a description below. |
| Is there an observed change in the receiving waters as a result of the discharge? ☐ Yes ☐ No<br>If yes, provide a description below. |
| Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? ☐ Yes ☐ No<br>If yes, provide a description below. |
| 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: | | mg/L | Oil and Grease | | mg/L |
| Other: | | mg/L | | | mg/L |

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

| ILLICIT DISCHARGES |
|---|
| Is the dry weather flow an illicit discharge? ☐ Yes ☐ No<br>Describe efforts made to determine the source(s) of the illicit discharge.<br><br>Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.<br><br>Inspector Comments: |

| RESPONSIBLE OFFICIAL CERTIFICATION | |
|---|---|
| I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). | |
| Monique dykman | MD |
| Responsible Official Name | Signature |
| 7174610027 | May 21, 2020 |
| Telephone No. | Date |

**Outfall Photograph:**

May 21, 2020

# Appendix E – MCM #4

Londonderry Township

## BMP Manual *MCM #4: Construction Site Runoff Control Minimum Measure*

- **BMP 1:** A building, other permit, or final approval may not be issued to those proposing or conducting earth disturbances requiring an NPDES permit, unless the party has a valid NPDES Permit Covered under 25 PA Code Chapter 102.42.
- **BMP 2:** If/when a permit is issued, DEP will be notified within 5 days of the receipt of an application for a permit involving earth disturbance activity consisting of one acre or more, in accordance with 25 PA Code 102.42
- **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.

### Site Runoff Control Plan

Construction sites can be a significant contributor of sediment to MS4s. As a result of the municipal land development review process, Londonderry Township supports the Dauphin County Conservation District (DCCD) in maintaining paperwork for and inspecting all permitted construction projects, through a memorandum of understanding, last updated and executed on April 3, 2014. The Township Engineer also provides construction site inspection with the purpose of observing the installation of public improvements and ensuring that Chapter 102 and NPDES regulations are being followed by the contractor.

The Memorandum of Understanding is attached in Appendix E MCM #4 (Figure 1).

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has been required to develop, implement, and enforce a program to reduce pollutants in any stormwater runoff from construction activities that result in a land disturbance of greater than or equal to one acre. Londonderry Township proposes the following BMPs and measurable goals in order to best manage local construction activities.

- **BMP 1:** A building, other permit, or final approval may not be issued to those proposing or conducting earth disturbances requiring an NPDES permit, unless the party has a valid NPDES Permit Covered under 25 PA Code Chapter 102.42.
    - All reported violations will be recorded on the MS4 Concern form which will prompt the Environmental department to either inspect an illicit discharge, construction violation,

E&S, or some other MS4 related violation. Proper waste disposal will also be reviewed during the onsite construction inspection by the Township, Township Engineer, and/or the County Conservation District.

- **Accountability:** It has been determined that land development has the potential to be a large contributor of pollution and/or sediment into the Township's MS4. Therefore, to best manage this potential, the Township will educate and inform applicants of some common mistakes, and make them aware of specific ordinances (Chapter 26 Part C § 112 General Requirements). The MS4 concern form will trigger a prompt response from Township employees to investigate potential violations. The codes/zoning officer will maintain a list of current land developments within the Township, and ensure with the help of the Township Engineer and DCCD compliance on these sites.

- **BMP 2:** If/when a permit is issued, DEP will be notified within 5 days of the receipt of an application for a permit involving earth disturbance activity consisting of one acre or more, in accordance with 25 PA Code 102.42

  - Dauphin County Conservation District (DCCD) and Londonderry Township require all land developments of greater than 1,000 square feet to obtain an approved E&S plan from the DCCD. The Township will target this activity through educational materials and direct conversations with permit applicants.

  - The Township will promote Low Impact Development (LID) to reduce the number of E&S violations, and educate contractors and community members about best construction practices available. LID can be an effective tool to reduce E&S violations, as they reduce the volume of sediment disturbed and ultimately reduces exposed soils to precipitation, which will prevent sediment being displaced. Providing resources and education will allow developers and contractors to visualize their impacts on the storm system, and will help them to better understand their impact. Additionally, educating owners, designers and installers about proper selection, installation, inspection and maintenance of BMPs will help to ensure compliance with E&S requirements, as well as NPDES permit requirements.

- **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.

  - Accountability: In order to best use their resources, the Township would like to prevent as many violations as possible before they occur. Current Township ordinance, (Chapter 26 Part D § 117), states that all regulated activities include, to the maximum extent practicable, measures to meet water quality goals through a variety of techniques as stated in the above ordinance number. The Township's ordinance encourages applicants to implement a list of BMPs to the maximum extent practicable. The Township believes that by educating every applicant they can reduce the overall number of complaints and violations pertaining to the ordinance and erosion and sedimentation plans.

Updated to better align with permit requirements 7/25/2019.

*Updated to reflect current Township programs and abilities 6/10/2019.*

# Appendix E MCM #4 (Figure 1)

## Memorandum of Understanding

9-5-13

**MEMORANDUM OF UNDERSTANDING**
**BETWEEN THE**
**DAUPHIN COUNTY CONSERVATION DISTRICT**
**AND**
**LONDONDERRY TOWNSHIP**

WHEREAS, the Dauphin County Conservation District, hereafter referred to as District, and Londonderry Township , hereafter referred to as Municipality, have common areas of responsibility in serving the citizens of Londonderry Township and

WHEREAS, there are common areas of work that require communication and support of each of these parties to the other party, and

WHEREAS, the District and the Municipality desire to formalize their interactions in relation to common programs and responsibilities, and

WHEREAS, this Memorandum of Understanding will serve as a foundation for a cooperative and mutually beneficial working relationship between the District and the Municipality,

NOW THEREFORE, the parties agree to jointly enter into this Memorandum of Understanding. The Memorandum of Understanding has 5 component parts as listed herein:

- **Erosion and Sediment Pollution Control**
- **Agricultural Security Areas**
- **Municipal Separate Storm Sewer Systems**
- **General Conservation, Wise Use and Proper Management of our Natural Resources**
- **West Nile Virus Control Program**

**EROSION AND SEDIMENT POLLUTION CONTROL**

**Purpose:** Erosion and the resulting deposition of sediment in our waterways is the primary pollutant by volume of our streams. Minimizing erosion and sediment pollution of our streams requires initiatives at the state, county and local municipal levels of government. The purpose of this Memorandum of Understanding (MOU) is to serve as a joint commitment to control accelerated erosion and to prevent sediment pollution to the waters of the Commonwealth, which may result from the conduct of earth disturbance activities. This MOU also serves as a basis for stating the role of each party in appropriately updating and administering appropriate Ordinances of the municipality in relation to Erosion and Sediment Pollution Control.

**District Responsibilities:** In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

1. RESOURCES, MATERIALS AND DOCUMENTS

A. Provide to the Municipality a schedule of plan review fees and sufficient quantities of all necessary educational and other forms. The District will promptly notify the municipality of any change in the plan review fee schedule and provide updated forms and educational materials in a timely manner.

B. Upon request, provide all applicants with a DEP Erosion and Sediment Pollution Control Program Manual, National Pollutant Discharge Elimination System (NPDES) permit applications, and related forms, worksheets, checklists and all other forms and documents necessary to successfully prepare an ESPC plan and/or NPDES permit application for discharge of stormwater from construction activities.

C. Provide the municipality with a year end summary of NPDES and Erosion and Sediment Pollution Control activities within the municipality. The summary is intended to inform the municipality of District activities and document District activities for municipal MS4 permit requirements.

D. Serve as a repository for all ESPC plans, permit applications, plan and permit reviews, complaints, inspection reports, correspondence and other materials and documents concerning the conduct of earth disturbance activities permitted under the municipal ordinance. All such information shall be contained in a dedicated filing system, which shall be available for inspection by municipal officials at any time.

E. The District will maintain information and materials on its website related to NPDES permitting and the ESPC program. Municipalities may provide links to the District website from municipal websites. This activity provides additional outreach and satisfies relevant MS4 requirements.

2. PLAN REVIEWS AND PERMITTING

A. Receive all applications and plans required by NPDES permitting regulations and complete administrative and technical reviews within time frames established by DEP.

B. Receive all ESPC plan, required by municipal ordinance or submitted voluntarily, and complete reviews of the plans within time frames established by the District.

3. INSPECTIONS

A. The District will inspect earth disturbance activities to ensure that the approval, implementation and maintenance of the ESPC plan and ESPC practices are in compliance with the NPDES program and Chapter 102 regulations.

B. Inspections will be performed:

1. At a minimum, in compliance with DEP inspection schedules for permitted projects

√2. At the request of the municipality

3. In response to a complaint from the municipality or the public

4. Routinely, as time may allow

4. NOTIFICATIONS

A. Within 10 calendar days of completion the District will forward to the municipality and applicant or responsible party:

1. Notice of NPDES permit decisions including permit and plan approvals and renewals, deficiency letters, denials and withdrawals.

2. Notice of ESPC plan decisions where NPDES permits are not required including approvals and deficiency letters

3. Inspection reports resulting from complaints investigations and other inspections

5. MUNICIPAL ASSISTANCE

A. The District will assist the municipality with environmental problems, permit applications and resource management issues within the scope of the District's role under the NPDES and Chapter 102 program. The District will enlist assistance from cooperating agencies where appropriate.

B. The District will provide an invitation to the municipality to all appropriate educational events.

C. At the request of the municipality, the District will review appropriate sections of municipal stormwater management and subdivision and land development ordinances and make recommendations for consistency with current Chapter 102 regulations and NPDES permit requirements.

6. MEETINGS

A. The District will invite the municipality to all scheduled pre-application meetings. Where the District is not the entity organizing the meeting, the District will recommend to the meeting organizer that the municipality be invited. Attendance and choice of representative is at the discretion of the municipality.

B. District staff, at the request of the municipality, will meet with municipal representatives to provide information or to discuss issues related to NPDES permitting and Chapter 102 regulations.

C. District staff, where appropriate, will notify the municipality of any site meetings related to inspections, violations or complaints and invite the municipality to attend these meetings.

**Municipal Responsibilities:** In carrying out the intent of this memorandum, the municipality shall:

1. RESOURCES AND INFORMATION

A. Inform those involved with earth disturbance activities of any municipal Erosion and Sediment Pollution Control and NPDES permitting Ordinance requirements.

B. Retain a sufficient quantity of the application form for ESPC plans and issue such information to all proposed earth disturbance projects that require review and approval in accordance with the provisions of the municipal ordinance. The municipality shall provide instructions as necessary to have the plans submitted to the Dauphin County Conservation District.

C. Distribute fact sheets and other materials provided by the District to all applicants for building permits and subdivision or land development approval.

D. Retain all correspondence from the District including copies of inspection reports, permit authorizations, denials and withdrawals, notices of violation, ESPC plan approvals and other correspondence needed by the municipality for MS4 permit documentation or other municipal purposes.

2. NOTICE AND REFERRAL TO THE DISTRICT

A. Forward all third party complaints concerning earth disturbance activities to the District.

B. Forward all questions related to the preparation of ESPC plans and NPDES permit applications to the District

C. Notify the District of the receipt of a building permit application involving earth disturbance of one acre or more within five working days of receipt.

3. MUNICIPAL APPROVALS AND ACTIONS

A. Before issuing any permits or approvals, with the exception of local stormwater approvals, the municipality will require evidence of an issued Individual NPDES permit, authorized General NPDES permit or approved ESPC permit if required, or an approved ESPC plan where municipal regulations require an approved ESPC plan where NPDES or ESPC permits are not required.

B. Where violations of Chapter 102 or NPDES permitting regulations are discovered, the municipality will cooperate with the District to document and resolve the violations. Cooperation may entail providing access or copies of approved subdivision or land development plans, issued permits, review comments, revocation of municipal permits and other reasonable measures legally and practically available to the municipality.

C. Encourage the preservation and responsible use of all of our natural resources.

## AGRICULTURAL SECURITY AREAS (ASAs) AND FARMLAND PRESERVATION

**Purpose:** To preserve the agricultural resources of Dauphin County and the security of land use for the agricultural community, proper administration of the Agricultural Area Security Law (Act 43, as amended) is essential. Proper and efficient implementation of this law is also necessary to protect the integrity of Agricultural Conservation Easements purchased in Dauphin County through the Dauphin County Agricultural Land Preservation Program.

**District Responsibilities:** In carrying out the intent of this memorandum, the Dauphin County Conservation District (acting on its own behalf and also on behalf of the Dauphin County Agricultural Land Preservation Board) shall, within the limits of it's capabilities and available resources:

A. Serve as a resource for local municipalities by providing guidance and information related to the establishment, additions to and review of ASAs.

B. Conduct periodic workshops for municipal education related to ASAs, procedures and regulations.

C. Attend municipal workshops and meetings, if requested by municipal officials, to present information on the Agricultural Area Security Law, ASAs and the Agricultural Conservation Easement Purchase Program.

D. Furnish the municipality with a "Notification of Agricultural Conservation Easement Purchase" for each easement purchased through the county program in the municipality.

E. Review proposed subdivisions or land development plans and activities subject to building permits for land within the municipality subject to a conservation easement purchased through the county program for compliance with the Deed of Easement and the county program.

F. Provide the municipality with a reasonable quantity of related resource materials at the request of the municipality.

**Municipal Responsibilities:** In carrying out the intent of this memorandum, within the limits of its capabilities and available resources, the municipality shall:

A. Forward to the District copies of recorded documents verifying new enrollments in the municipality's ASA. Such documents shall include the recorded resolution approving the enrollment, the recorded landowner information (Name, Signature, Address, Tax Parcel and Acreage) and the recording documentation page.

B. Forward to the District copies of recorded documents verifying the complete enrollment of the ASA subsequent to all seven year reviews. Such documents shall include the recorded resolution, the recorded landowner information (Name, Signature, Address, Tax Parcel and Acreage) and the recording documentation page.

C. Inform the District whenever a building permit is applied for, or when subdivision or land development is proposed for any land within the municipality subject to an Agricultural Conservation Easement purchased through the county program.

D. Require a letter from the District, acting on behalf of the Dauphin County Agricultural Land Preservation Board, stating that the proposed construction, subdivision or land development is in compliance with the Deed of Easement and the county program prior to issuing building permits or approving subdivisions or land development.

E. Maintain a file containing the Notifications of Agricultural Conservation Easement Purchase that are forwarded to the municipality.

## GENERAL CONSERVATION, WISE USE AND PROPER MANAGEMENT OF OUR NATURAL RESOURCES

**Purpose:** The working relationships between the forty municipal governments within Dauphin County and the Dauphin County Conservation District (District) are strong. Both the municipalities and the District agree that it is highly desirable to conserve, maintain, restore, use and properly manage our natural resources while being sensitive to the need for economic development, infrastructure improvement and the needs of our citizens. Identifying and better understanding the inter-relationships between natural resource issues of interest to the District and the local land use and management decisions made by the municipalities is critical. This memorandum of understanding that outlines general areas of cooperation between both parties is mutually endorsed.

**District Responsibilities:** In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

A. Help to keep all municipal officials informed of the relationship of land use decisions and water quality and quantity issues. The District will share with the municipalities the information collected in their stream monitoring program and offer educational materials, workshops and field trips relating to water issues

B. Keep the municipal officials informed and involved in studies, mitigation projects and programs that the District is administering within this municipality

C. Provide technical assistance to the municipality as ordinances relating to natural resource concerns are updated, i.e. stormwater management, riparian buffers, low impact design standards, floodplains, groundwater recharge, agricultural issues and other natural resource issues.

D. Facilitate Pennsylvania's Act 167 Stormwater Management Act watershed stormwater management studies

E. Invite the municipality to participate in the development of the District long range plans as they relate to the municipal issues

F. Assist the municipality with environmental issues and permit applications that fall within the District's area of expertise. The District will enlist the services of cooperating agencies when necessary

G. Provide the municipality with administrative and technical training opportunities and points of contact for District programs.

**Municipal Responsibilities:** In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

A. Provide the District with current point of contact within the municipality for environmental issues. Provide updates as needed

B. Inform the District of natural resource issues especially those that are water related and concerns except individual stormwater problems

C. Implement and administer appropriate stormwater management ordinances base on approved watershed stormwater plans developed in accordance with Act 167 Stormwater Management Act guidelines. (Note: The District does not have the authority to adopt or enforce stormwater management ordinances; this is a local government function.)

D. Afford the District the opportunity to review and comment on ordinances or proposed ordinance updates that impact on our natural resources

E. Meet with the District to review environmental impacts of planned municipal activities as they relate to District programs.

F. Cooperate with the District on studies, pilot projects or surveys related to natural resources conservation within the municipality.

G. Provide the District with the date of regularly scheduled municipal meetings and invite the District to participate as appropriate.

**It is mutually agreed within the limits of abilities and resources:**

A. Both parties will provide for the mutual sharing of information
B. Both parties will supply each other with available maps, geographic information system and computer aided drafting files, printed material, photos/slides, video and displays pertaining to pertinent programs
C. Both parties will work on projects mutually benefiting the District and the municipality.

## WEST NILE VIRUS CONTROL PROGRAM

**Purpose:** The Dauphin County Conservation District's West Nile Virus Control Program is an integrated mosquito management (IMM) program focused on reducing mosquito populations within Dauphin County. The program utilizes education, mosquito surveillance, mosquito breeding habitat elimination and mosquito control to decrease numbers of mosquitoes within Dauphin County to reduce the risk of human acquisition of West Nile Virus. The Dauphin County IMM Program is based on sound entomological data collection to provide temporal and biological data. This data enables us to implement a mosquito abatement program relying upon habitat elimination and larval mosquito control as a foundation for the reduction of WNV levels within the county.

**District Responsibilities:** In carrying out the intent of this memorandum, the Dauphin County Conservation District shall, within the limits of its capabilities:

A. Provide educational outreach that will be focused at urban and agricultural communities to facilitate the elimination of mosquito breeding habitat in these areas. These programs will use both literature pertaining to WNV and basic mosquito biology, and there will be informational presentations aimed at these same geographical areas conveying information pertaining to Mosquito biology/behavior and WNV epidemiology.

B. Aggressively execute larval mosquito control using a variety of control products. The product to be used will be site and mosquito species specific, and is dependent upon the specific habitat type and the entomological data for the site. There will be a continuous larviciding program aimed at any mosquito breeding habitats including catch basins in the urban areas of Dauphin County. Primarily, the biological larvicides Bacillus thuringiensis var. israelensis and Bacillus sphaericus will be used to reduce mosquito population levels. We will also utilize additional products such as Methoprene and Monomolecular Films when habitat type or biological data indicate that these products would be more efficacious.

C. Conduct adult and larval mosquito surveillance at various locations in the county based on previous seasons' data and the elucidation of new mosquito breeding locations and citizen complaint calls. We will rely upon both carbon dioxide baited traps as well as gravid traps to monitor local adult mosquito populations. The type of trap used will be dictated by habtat type and historical and contemporary larval taxonomic data. These traps will be placed at known mosquito breeding locations as well as in areas of high population densities. We will increase our number of traps in some areas as epidemiological data comfirms WNV activity in particular areas.

D. Perform adult mosquito control when epidemiological and entomological data show that adult mosquito and virus levels are high enough to put the local human population at significant risk of WNV infection.

E. Support enforcement of municipal codes addressing mosquito breeding habitats.

**Municipal Responsibilities:** In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

A. Adopt and enforce municipal ordinances which address vector/mosquito breeding habitats.

B. Provide assistance for the notification of the public of spray events scheduled in the municipality.

C. Provide for the publication of WNV/mosquito news and educational articles in municipal publications.

D. Provide for the assistance of the local municipal police for any adult mosquito control events.

## NPDES MUNICIPAL SEPARATE STORM SEWER SYSTEMS

**Purpose** Many municipalities in Dauphin County and the County itself are subject to NPDES permit requirements for Municipal Separate Storm Sewer Systems (MS4).The purpose of this agreement is to coordinate, where possible and desirable, the activities of the municipalities and the county associated with MS4 permit requirements. While not all requirements lend themselves to coordination, several of the requirements are such that coordination will result in decreased compliance cost and greater efficiency for both the municipality and county. The following details the municipal and District responsibilities by Minimum Control Measure (MCM)

### MCM 1 – PUBLIC EDUCATION AND OUTREACH

**District Responsibilities** In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

A. Develop and Coordinate with all regulated municipalities the placement of an educational newspaper advertisement once per permit year.

B. Distribute educational posters to all schools within the regulated municipalities once per permit year.

C. Make educational posters available, at cost, to regulated municipalities for distribution to target audiences other than schools.

D. Distribute an educational publication to developers in Dauphin County once per permit year.

E. Maintain on the District website, information related to stormwater regulations, educational materials and resources. It is recommended that Municipalities provide a link from the municipal website, if available, to the District website.

F. Annually, no later than 30 days after the end of the permit year, provide a summary to each regulated municipality of the above activities and any other educational activities conducted by the District that would be applicable for MS4 permit compliance. Where possible, copies of the educational materials, the dates distributed and a summary or list of those the material was distributed to will be included in the summary.

**Municipal Responsibilities** In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

A. Annually, no later than 30 days prior to the end of the permit year, provide a summary to the District of the use and or distribution of educational posters.

B. Where practical and applicable, notify the District at least 15 calendar days in advance of municipal public outreach events where the District could play a role in providing public outreach.

### MCM 2 – PUBLIC PARTICIPATION

**District Responsibilities:** In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

A. Notify regulated municipalities of public participation events, as appropriate 30 days prior to the event.

**Municipal Responsibilities:** In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

A. Notify the District of public participation events, as appropriate, at least 30 days prior to the event.

### MCM 4 – CONSTRUCTION SITE STORMWATER MANAGEMENT

**District Responsibilities:** In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

A. Meet all of its responsibilities listed in the ESPC section of this MOU.

B. Annually, no later than 30 days after the end of the permit year, provide a summary to each regulated municipality of District activities conducted in the municipality. The summary will include:

1. The number of sites inspected and the number of inspections conducted
2. The number of complaints received and the number of inspections conducted in response to complaints
3. The number of sites referred to DEP for enforcement
4. The number of permits issued

**Municipal Responsibilities:** In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

A. The municipality will meet all of its responsibilities listed in the ESPC section of this MOU.

B. Retain all correspondence from the District including copies of inspection reports, permit authorizations, notices of violation, ESPC plan approvals and other correspondence needed by the municipality for MS4 documentation purposes.

### GENERAL MS4

**District Responsibilities:** In carrying out the intent of this memorandum, the District shall, within the limits of its capabilities:

A. Serve as a resource to regulated municipalities for general MS4 program information

B. Provide copies of resource, regulatory, and educational materials. Limited amounts of such copies will be provided at no charge. For larger quantities, the District will provide copies in a format, where practical, suitable for producing copies or at cost.

**Municipal Responsibilities:** In carrying out the intent of this memorandum, the municipality shall, within the limits of its capabilities:

A. Provide copies of ordinances related to stormwater management, erosion and sediment control and illicit discharges. The municipality will provide the district with copies of any revised ordinances within 30 days of adoption.

## EXECUTION

This Memorandum of Understanding shall become effective only after it has been adopted by vote of the governing bodies of both parties. Signatures must be those of a member of the governing body authorized to sign for the governing body.

This Memorandum of Understanding may be terminated by either party for any reason. Termination of this Memorandum of Understanding must be by certified mail. Termination shall become effective 30 days after receipt of the notice of termination.

This Memorandum of Understanding shall be reviewed periodically by either or both parties and may be amended by mutual consent of both parties.

With the execution of this Memorandum of Understanding any previous Memorandum of Understandings between the Municipality and the District shall be invalid.

**DAUPHIN COUNTY CONSERVATION DISTRICT**

By: Ronald E Kopp

Title: CHAIRMAN DCCD BOARD OF DIRECTORS

Date: 4-3-14

**TOWNSHIP OF LONDONDERRY**

By: [illegible]

Title: SUPERVISOR

Date: _____

**15-Londonderry Township**

| | | |
|---|---|---|
| Plan Submissions | | 4 |
| Plan Reviews | | 3 |
| NPDES Permits Issued | | 3 |
| Routine Inspections (See Attached) | | 13 |
| Complaints by Site | Number | Inspections |
| Pipe Manor LLC Property | 1 | 1 |
| Moser Property | 1 | 1 |
| I283 Offsite Waste Area | 1 | 1 |
| Campus Heights Village III (17-18-08 | 1 | 1 |
| Roush Rd Fill Site (15-18-02) | 1 | 1 |
| Enforcement Referrals | 0 | 0 |

Plan Submissions: all plans submitted for review including NPDES plans and ESPC plans not requiring a NPDES permit

Plan Reviews: total number of reviews including initial reviews and review of revised plans

NPDES Permits Issued: total number of permits issued

Routine Inspections: total number of inspections on sites for which a plan was reviewed

Other Inspections: inspections of sites not associated with a complaint or NPDES or ESPC plan review

Complaints by Site: list site, number of complaints received and number of times inspected. If the project requires ESPC plan approval or NPDES permit, inspections after such approval are listed as routine

Enforcement Referrals: non-compliant sites referred to DEP for formal enforcement

Inspections by Muncipality

1/9/2020

| Municipality | Plan No | Date of Inspection | Inspectors Initia | Project Name |
|---|---|---|---|---|
| Londonderry Township | 15-00-08 | 4/2/2019 | RLS | Braeburn Park Improvements |
| Londonderry Township | 15-13-05 | 7/26/2019 | RLS | Zeager Bros Phase 2 |
| Londonderry Township | 15-10-04 | 7/26/2019 | RLS | Zeager Brothers Inc LDP |
| Londonderry Township | 15-17-03 | 4/9/2019 | RLS | Matincheck Residence |
| Londonderry Township | 15-17-04 | 5/9/2019 | RLS | 3100 Schoolhouse Rd |
| Londonderry Township | 15-17-04 | 6/17/2019 | RLS | 3100 Schoolhouse Rd |
| Londonderry Township | 15-18-01 | 8/8/2019 | RLS | 347 Alwine St |
| Londonderry Township | 15-18-02 | 8/5/2019 | RLS | 4207 Roush Rd Fill Site |
| Londonderry Township | 15-18-02 | 11/14/2019 | RLS | 4207 Roush Rd Fill Site |
| Londonderry Township | 15-18-03 | 11/14/2019 | RLS | Middletown Dollar General |
| Londonderry Township | 15-18-04 | 8/8/2019 | RLS | Perseverance Field @ Sunset Park |
| Londonderry Township | 15-19-01 | 8/8/2019 | RLS | Three Mile Island Spent Fuel Storage |
| Londonderry Township | 15-19-01 | 9/17/2019 | RLS | Three Mile Island Spent Fuel Storage |

# Appendix F - MCM #5

Londonderry Township

BMP Manual *MCM #5: Post-Construction Storm Water Management in New Development/Redevelopment Minimum Measures*

- **BMP 1:** Enforce an ordinance to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.

- **BMP 2:** Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment, including retrofitting LID into existing development.

- **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.

## Post Construction Runoff Plan

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has been required to develop, implement, and enforce a stormwater management program in order to meet the requirements of the permit and ensure that controls are in place to prevent or minimize water quality impacts.

**Minimum Measure Objective:** The purpose of post-construction stormwater management within the Township is to minimize the impacts of construction activities on the watershed. The Township will implement these measures with the help of the Township Engineer, Township staff, and the County Conservation District. A schedule for inspection of installed stormwater BMPs will be set up, and a plan for long term maintenance will be established.

- **BMP 1:** Enforce an ordinance to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.

    - Londonderry Township has enacted ordinance Londonderry Township Storm Water Management Ordinance: https://ecode360.com/14930994

- **BMP 2:** Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment, including retrofitting LID into existing development.

    - Low Impact Development (LID) is a technique to reduce stormwater, and is one of the best construction practices available on the market. The Township will distribute education material on LID to all permit applicants. Specifically, materials about designs that reduce impervious surface area and impervious connections to the Township's

MS4. LID can be a very effective technique in reducing stormwater and increasing infiltration.

- **Accountability:** It is important to continuously re-evaluate the program to ensure that the best possible solutions and practices are being researched and presented to builders, contractors, and other permit applicants. The best management practice is to educate, inform, assist, and then enforce if necessary.

- **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. See Appendix F MCM #5 (Figure 2).

  - The Township holds a list of stormwater BMPs installed on public and private property from the beginning of their permit. In January of the current permit term, the Township will send notification letters to each BMP land owner explaining that an inspection will be conducted in the spring. This letter will also provide information about the type of BMP they currently have on their property. In April of the current permit term, an inspection will be conducted by MS4 staff and the Codes and Zoning Officer. Should the inspection require follow-up, staff will follow the Privately-Owned BMP Inspection Protocol.

  - **Accountability:** Stormwater BMPs can be an effective tool in preventing erosion, slowing down water velocity, reducing sediment, and improving water quality. However, these stormwater BMPs must be properly maintained in working order to work as they were designed. This is precisely why a maintenance schedule should be established and followed. Encouraging self-compliance and education will be the focus of the Township office.

  - **Measurable Goal:** The Public Works department will conduct at least two inspections of each structural control per year and conduct regular maintenance as prescribed for each type of practice. Records will be kept. Most stormwater controls have been identified and numbered, therefore Township staff can track frequency and location of inspections.

  - **Justification:** The current inspection and maintenance schedule will be developed to maximize efficiency and minimize labor requirements. Easy to use spreadsheets will be developed including all necessary information. This reporting system can also be expanded to include other types of MS4 maintenance, including street sweeping, catch basin cleaning, storm drain flushing, etc.

Updated to better align with permit requirements 7/25/2019.

*Updated to reflect current Township programs and abilities 6/10/2019.*

No changes necessary.

# Appendix F MCM #5 (Figure 2)

## Existing Post Construction BMPs

| BMP ID | Year Installed | Instrument # | Plan Name | NPDES Number | Plan Number | BMP Type | LID? | Res/Com | Tax Parcel | Property Address | Property Owner/Point of Contact Name | Contact/ Mailing Address | Permit Year Inspected | Maintenance Required | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | 2003 | | | | | Below Grade Detention/ Infiltration Basin | | | | 2200 Vine Street Middletown, PA 17057 | Capital Self Storage | 686 Yorktown Road Lewisberry, PA 17339 | 7/31/2018 | | No known O&M agreement |
| 15 | 2003 | | Londonderry Animal Hospital | | | Detention Basin | | commercial | 34-11-42 | 2164 E Harrisburg Pk Middletown PA 17057 | Dr. Glen Book | 2360 Old Hershey Rd Elizabethtown PA 17022 | 7/31/2018 | | No known O&M agreement |
| 16 | 2003 | | | | | Detention Basin | | Residnetial | 34-008-012 | 968 Ballyshannon Dr Elizabethtown PA 17022 | Stephen Natshin | | 9/7/2018 | | No known O&M agreement |
| 17 | 2004 | | Pine Manor MHP | | | Detention Basin | | | | 3857 E Harrisburg Pk Middletown PA 17057 | Pine Manor MHP | P.O. Box 677 Morgantown PA 19543 | | | |
| 18 | 2004 | | | | | Detention Basin | | | | 4319 E Harrisburg Pk Elizabethtown PA 17022 | Walter J Heisey | | 9/21/2018 | | No known O&M agreement |
| 19 | 2005 | | Bright Hope Church | | | Detention Basin | | Commericial | | 345 N Deodate Rd Elizabethtown PA 17022 | Bright Hope Church | | 8/1/2018 | | No known O&M agreement |
| 20 | 2005 | | | | | Detention Basin | | | | 4190 E Harrisburg Pk Middletown PA 17057 | Joseph Ziat | | 8/1/2018 | | No known O&M agreement |
| 21 | 2006 | | | | | Detention Basin | | | | 34 Dogwood Ln Middltown PA 17057 | Mark Farling | | | | No known O&M agreement |
| 22 | 2007 | | | | | Infiltration Bed | | Commercial | | 4806 E Harrisburg Pk Middletown PA 17057 | Church of Christ | | | | No known O&M agreement |
| 23 | 2010 | 20120000335 | Friends in Action | | | Detention Basin & 3 Swales | | Commercial | 34-018-017 | 3950 E Harrisburg Pk Middltown PA 17057 | Friends in Action International | P.O. Box 323 Elizabethtown PA 17022 | 9/7/2018 | Once a month and after large rainfall events | Clean area of trash and debris |
| | 2011 | | | | | Retention Basin | | Residnetial | | 930 Thissle Rd | | | | | |
| 24 | 2011 | | | | | Retention Basin | | Residnetial | 34-014-116 | 4185 Heather Rd Elizabethtown PA 17022 | Albert, Jonah & Deanna | | 8/1/2018 | Remove trash, accumulated sediment, and debris | No known O&M agreement |
| 25 | 2011 | | | | | Retention Basin | | Residnetial | | 928 Thistle Rd Elizabethtown PA 17022 | Grosko, Stephanie & Justin | | 8/1/2018 | Remove trash, accumulated sediment, and debris | No known O&M agreement |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | 2011 | | | | | Detention Basin with Bio-retention Wetland plantings | | | | 4830 E Harrisburg Pk Elizabethtown PA 17022 | Merle Gruber | | 8/1/2018 | Inspect monthly and after each storm event; bottom of basin should not be mowed, no pesticides or herbicides should be used, immediatly clean out debris | |
| 27 | 2012 | | | | | Infiltration Birm | | | | 2525 Brinser Rd Middletown PA 17057 | Dennis Schmidt | | 9/12/2018 | Once a month and after large rainfall events; Clean area of trash and debris | |
| 28 | 2013 | | | | | Infiltration Trench | | | | 34 Dogwood Ln Middltown PA 17057 | Mark Farling | | | Twice a year and after rainfall events; Remove trach, accumulated sediment and debris | |
| 29 | 2014 | 2014001865 | | | | Detention Basin and Detention Basin with undergroun d infiltration facility | | | | 3555 Vine St. Middletown PA 17057 | Love's Travel Stops and Country Stores Inc. | 10601 N Pennsylvania Ave Oklahoma City, OK 73120 | 9/7/2018 | twice a year and after rainfall events; Remove trash, accumulated sediment, and debris | |
| 30 | 2014 | | | | | Undergroun d Detention Basin 5 Total | | | | 2800 Vine St. Middletown PA 17057 | M&G Reality Inc. | 2100 N George St. York PA 17404 | 7/31/2018 | Quarterly and after major storm events, inspection by qualified professional annually and after 100 year storm events; Remove trash, accumulated sediment, and debris | |
| 31 | 2014 | 20130024929 | | | | Basin and Stone Seepage Bed | | | | 598 Schoolhouse Rd Middletown PA 17057 | Douglas Gellatly | 193 Cedar St Middletown PA 17057 | 8/1/2018 | regularly throughout the year and after rainfall greater than one inch; remove trash, accumulated sediment, and debris | |
| 32 | 2014 | | | | | Infiltration Trench & ADS Drain | | | | 5005 Beagle Rd Elizabethtown PA 17022 | Zachery Carter | | 8/1/2018 | Clean area of trash and debris | |
| 33 | 2015 | | | | | Infiltration Trench | | | | 2633 E Harrisburg Pk Middletown PA 17057 | Goho, Steve | | 8/1/2018 | property owner responsible to remove trash, accumulated sediment, and debris | |
| 34 | 2015 | | | | | Detention Basin | | | 34-009-004 | 2022 Foxianna Rd Middletown PA 17057 | Haydo, Michelle & William | | 7/31/2018 | Remove trash, accumulated sediment, and debris | |
| 35 | 2015 | | | | | Perferated Roof Leaders Directed Towards Forested Area | | | 34-012-001 | 3055 E Harrisburg Pk Middletown PA 17057 | Loren Bowen | | 9/28/2018 | Ensure leaders are maintained and forested area is not depleted | |
| 36 | 2015 | | | | | Rain Garden | | | | 901 Elwood Dr Middletown PA 17057 | Crawford, Eric | | 10/17/2018 | Inspected yearly for sediment build up, erosion, vegetative conditions, etc. During years of extended drought garden may need watering. Clean out debris and sediment | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 37 | 2015 | | | | | Rain Garden | | | | 927 Cola Rd Middletown PA 17057 | Melinda English and possibly Nick Smalley | 717-648-6882 | 7/31/2018 | Inspected yearly for sediment build up, erosion, vegetative conditions, etc. During years of extended drought garden may need watering. Clean out debris and sediment | |
| 38 | 2015 | | | | | 1 Infiltration Trech under driveway and 1 next to concrete pad | | | | 598 Schoolhouse Rd Middletown PA 17057 | Verizon Wireless | 4642 Jonestown Rd Suite 200 Harrisburg PA 17103 | 8/1/2018 | every three months and after storm events | Remove trash, accumulated sediment, and debris |
| 39 | 2016 | 20060037960 | | | | Detention Basin | | | | 2655 Foxianna Rd Middletown PA 17057 | Londonderry Fire Company | Scott Merchlinski | 7/31/2018 | Inspect after storm event greater than 3" and twice annually; Remove trash, accumulated sediment and debris | |
| 40 | 2016 | 20080005969 | | | | Detention Basin | | | 34-013-022 | 1565 N Deodate Rd Elizabethtown PA 17022 | Savage, Jesse | 717-712-4815 | 7/31/2018 | Remove trash, accumulated sediment, and debris | |
| 41 | 2017 | | | | | Infiltration Trench | | | | 936 Cola Rd Middletown PA 17057 | Kerry & Darlen Velter | | 7/31/2018 | Clean area of trash and debris | |
| 42 | 2018 | 20170013433 | | | | Infiltration Trench & Series of Infiltration Trenches under Driveway | | | 34-20-071 | 5051 Beagle Rd Elizabethtown PA 17022 | Ray Kennedy | | | Clean area of trash and debris | |
| 43 | 2018 | 20180013972 | | PAC220005/151704/17-17-04 | | Stormwater Detension Basin, infiltrating pit, | | | 34-001-092 | 3100 Schoolhouse RD | Penn State Med Center | | | | |
| 44 | 2019 | 20190004932 | Noon Residence | | | Swale, underground stone trench | | | 34-007-065 | 4443 Woodcrest Drive | Andrew J Noon | | | Yes O&M | |
| 45 | 2015 | 20150019723 | Matincheck Associates INC | | | Infiltration basin | | | 34-028-025 | 2912 River Rd | Storage Units | | | Yes | |
| 46 | 2016 | | | PAG02-0022-15-018/#15-15-04 | | Bioretention bed (swales & basin) | | | 34-001-008 | 3030 Schoolhouse Rd | Living Hope Chruch | | | No know O&M agreement | |

# Appendix G - MCM #6

Londonderry Township

BMP Manual *MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations*

- **BMP 1:** Complete an Operations and Maintenance (O&M) plan for all municipal operations.
- **BMP 2:** Manage maintenance activities, schedules and inspection procedures to reduce the potential for pollutants.
- **BMP 3:** Operations training program for Township staff, Public Works, and Golf Course Maintenance

## Good House Keeping

Londonderry Township, Dauphin County, PA is a township of approximately 5,200 residents that has been required to develop, implement, and enforce a stormwater management program in order to meet the requirements of their permit and ensure that controls are in place to prevent or minimize water quality impacts. The Township is able to control its operations, within the context the MS4 permit, by implementing an operations and maintenance plan. This plan will include duties for each member of each department for facilities under control of the Township. In some cases, these operations will be as spreadsheets and checklists to prompt employees of proper procedures. This will also allow management to track movements, and improve efficiency in the future.

Minimum Measure Objective: The purpose of developing the Operations and Maintenance plan is to implement a program that includes training components and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. This program will focus on areas of greatest control by the Township. This includes municipally-owned properties, roads, easements, and vehicle operations. The Township will also provide employee training to prevent and reduce stormwater pollution from activities such as parks and open space maintenance, fleet and building maintenance, and stormwater system maintenance.

- **BMP 1:** Complete an Operations and Maintenance (O&M) plan for all municipal operations.
    - The Township will complete the O&M plans for all municipal operations, including operations at the golf course. During April of the current permit year, training will be held on the usage of O&M, general housekeeping, and spreadsheet data entry. Inspection sheets will be collected from public works monthly, and kept in the MS4 office. The plan will include but is not limited to:
        - Management practices, policies, and procedures to reduce or prevent the discharge of pollutants to the regulated MS4;

        - Schedule for maintenance activities, routine activities, and inspection procedures to reduce the potential for pollutants to reach the regulated MS4;
        - Implement controls for reducing or eliminating the discharge of pollutants from streets, roads, highways, municipal parking lots, maintenance and storage yards, waste transfer stations, fleet or maintenance shops with outdoor storage areas, and salt/sand (anti-skid) storage locations and snow disposal areas;
        - Procedures for the proper disposal of waste removed from the Township's regulated MS4 and municipal operations, including dredge spoil, accumulated sediments, trash, household hazardous waste, used motor oil, and other debris
        - See Appendix G MCM #6 (Figure 1)
    - **Accountability:** A well-developed Operations and Maintenance plan will establish procedures for municipal activities to reduce their impact on the Township's MS4. This plan will manage municipal operations to prevent routine action from causing any impact on the MS4. Trainings accompanied by spreadsheets will prompt employees to complete tasks, and management staff can use this data to set budgets and reduce overall impacts to the MS4 in the coming years.
- **BMP 2:** Manage maintenance activities, schedules and inspection procedures to reduce the potential for pollutants, including a Spill prevention and control and containment plan (SPCC). Documentation for MCM #6 BMP 2 is located in Appendix G MCM #6 (Figure 3) through (Figure 5).
    - During the current permit year, the public works and golf course maintenance facilities will continue to follow the inspection process outlined in the SPCC plan. Public works and golf course staff will inspect all 55-gallon containers and fuel tanks during the first week, every month. Once per quarter, the MS4 Department will evaluate inspection sheets for completeness. The SPCC Plan will be evaluated once per permit cycle to keep the SPCC plan up to date.
    - **Justification:** Spill prevention plans can serve to prevent significant discharges into the MS4, and provide employees with training on how to properly handle the spill if it does occur. Municipal employees will know how to properly deploy all equipment in a spill kit, and when to contact management and/or emergency services. Employees that are aware and confident in their abilities will be able to make quick and educated decisions that will have the best outcome for the Township's MS4 and nearby stream health.
- **BMP 3:** Operations training program for Township staff, Public Works, and Golf Course Maintenance.
    - **Measurable Goal:** During the current permit year, training sessions will be held for the Public Works department, the Golf Course maintenance crew and Township staff. These training sessions will be developed to follow the topics covered in the Operations and Maintenance Plan. All training documentation is attached in Appendix G MCM #6 (Figure 1) and (Figure 2).
        - General Stormwater and Permit Awareness: Board of Supervisors and Public
        - Illicit discharge detection and elimination and permit awareness: all Township staff

- Pollution prevention for fleet maintenance and storage yards: Public Works and Golf Course Maintenance
- Catch basin and inlet structure cleaning and inspection: Public Works
- Tracking sheets and Filing System: Public Works and Golf Course Maintenance
- Pollinator garden, rain garden, and buffer maintenance: MS4 Environmental Department
- Spill kits and spill response: Public Works and Golf Course Maintenance
- Pollution prevention for fleet maintenance and storage yards: Public Works and Golf Course Maintenance
- Pollution prevention for fleet maintenance and storage yards: Public Works and Golf Course Maintenance
- Salt/De-Icing: Public Works

- **Justification:** Annual training will ensure every employee is confident in their ability to complete their job description in a way that is not harmful to the MS4. They will be knowledgeable about current NPDES permit requirements, and be able to answer simple questions if prompted by DEP or EPA during an inspection. Proper training also ensures that employees maintain safe working areas and do not put themselves in situations that are hazardous to their health, the environment, and/or property. The United States Golf Association (USGA) has developed best management practices for golf courses to reduce water usage and increase infiltration. Using these practices along with others, the Township will develop best management practices that address water quality, environmental health, and economic benefits, specifically associated with golf course management.

Updated to better align with permit requirements 7/25/2019.

*Updated to reflect current Township programs and abilities 6/10/2019.*

<u>Appendix G MCM #6 (Figure 1)</u>

| Facility/Activity | Storm Sewer System Ipact | Discharges To | Located in Urbanized Area (Y or N) | O & M Responsibilities |
|---|---|---|---|---|
| Public Works Yard | Inlets, piping, basin | Susquehanna River Watershed | N | Managing oil, cleaning, equipment fueling, maintaining vehicle wash water, maintaining salt shed |
| Golf Course Maintenance Building | Inlets, piping, basin | Susquehanna River Watershed | N | Managing oil, cleaning, equipment fueling, maintaining vehicle wash water, pesticides and herbicides |
| Public Works Maintenance Building | Inlets, piping, basin | Susquehanna River Watershed | N | Managing oil, cleaning, equipment fueling, maintaining vehicle wash water |
| Streets (see Exhibit 1) | Inlets, catch basins, swales | (see Exhibit 1) | Y | Sweeping, cleaning, inspection and maintenance |
| Stormwater (SW) Conveyance | Pipes, swales, outfalls | Susquehanna River, Swatara Creek, and Conewago Creek Watersheds | Y | Cleaning, inspection and maintenance |
| Municipal Building | Inlets, rain garden, rain barrels | Conewago Creek (East) Watershed | N | Sweeping, cleaning, weed control, watering, landscaping, rain barrel maintenance |
| Braeburn Park | Inlets | Conewago Creek (East) Watershed | N | Sweeping, cleaning, weed control, mowing |
| Sunset Golf Course | Inlets, piping, irrigation pond | Susquehanna River Watershed | N | Oil management, fueling, vehicle wash water, pesticides and herbicides |
| HMGP Properties/Swatra Creek Rd | Swales, riparian buffer | Swatara Creek Watershed | N | Weed control, watering, landscaping, mowing |

## Exhibit 1 – Urbanized Area Street Names and Drainage Areas

**Iron Run Urbanized Area**

- Sand Hill Road – Swatara Creek Watershed
- Woodcrest Drive – Swatara Creek Watershed
- Pasture Drive – Swatara Creek Watershed
- Walnut Lane – Swatara Creek Watershed
- Steinruck Road – Swatara Creek Watershed
- Roundtop Road – Swatara Creek Watershed
- Schoolhouse Road – Swatara Creek Watershed

**283 Corridor Urbanized Area**

- Swatara Creek Road – Swatara Creek Watershed
- Lauffer Road – Swatara Creek Watershed
- Iron Mine Road – Swatara Creek Watershed
- Houser Road – Swatara Creek Watershed
- Mill Road – Swatara Creek Watershed
- Toll house Road – Swatara Creek Watershed
- Donna Drive – Conewago Creek (East) Watershed
- Krepps Road – Conewago Creek (East) Watershed
- Alwine Road – Conewago Creek (East) Watershed



- Foxianna Road – Swatara Creek Watershed and Conewago Creek (East) Watershed
- Carol Circle – Swatara Creek Watershed
- Stephania Drive – Swatara Creek Watershed
- Felker Road– Swatara Creek Watershed and Conewago Creek (East) Watershed
- Roundtop Road – Swatara Creek Watershed
- Harrisburg Pike (S-R 230) – between Geyers Church Road and Toll House Road – Swatara Creek Watershed; between Toll House Road and School House – Swatara Creek Watershed and Conewago Creek (East) Watershed

**Susquehanna River Urbanized Area**

- Hollandale Street – Susquehanna River Watershed
- Water Street – Susquehanna River Watershed
- Laurel Drive – Susquehanna River Watershed
- Meadow Lane – Susquehanna River Watershed
- Orchard Lane – Susquehanna River Watershed
- Peck Road – Susquehanna River Watershed
- River Road – Susquehanna River Watershed
- Red Hill Plaza – Susquehanna River Watershed



**Conewago Creek Urbanized Area**

- Lark Street – Conewago Creek (East) Watershed
- Rose Avenue – Conewago Creek (East) Watershed
- Park Avenue – Conewago Creek (East) Watershed
- Rock Street – Conewago Creek (East) Watershed
- Birch Street – Conewago Creek (East) Watershed
- Tulip Lane – Conewago Creek (East) Watershed
- Garden Avenue – Conewago Creek (East) Watershed
- Deodate Road – Conewago Creek (East) Watershed
- Hertzler Road – Conewago Creek (East) Watershed
- Roslyn Road – Conewago Creek (East) Watershed
- Market Street – Conewago Creek (East) Watershed
- Hoffer Road – Conewago Creek (East) Watershed
- Florence Drive – Conewago Creek (East) Watershed
- Michael Street – Conewago Creek (East) Watershed
- Erle Avenue – Conewago Creek (East) Watershed
- Charles Avenue – Conewago Creek (East) Watershed
- Nelson Drive – Conewago Creek (East) Watershed
- Letti Drive – Conewago Creek (East) Watershed
- Mark Street – Conewago Creek (East) Watershed
- Dean Street – Conewago Creek (East) Watershed
- Joan Street – Conewago Creek (East) Watershed
- Liberty Lane – Conewago Creek (East) Watershed



- Ridge Road – Conewago Creek (East) Watershed
- Rim Road – Conewago Creek (East) Watershed

## Appendix G MCM#6 (Figure 1)

### Municipal Employee Training

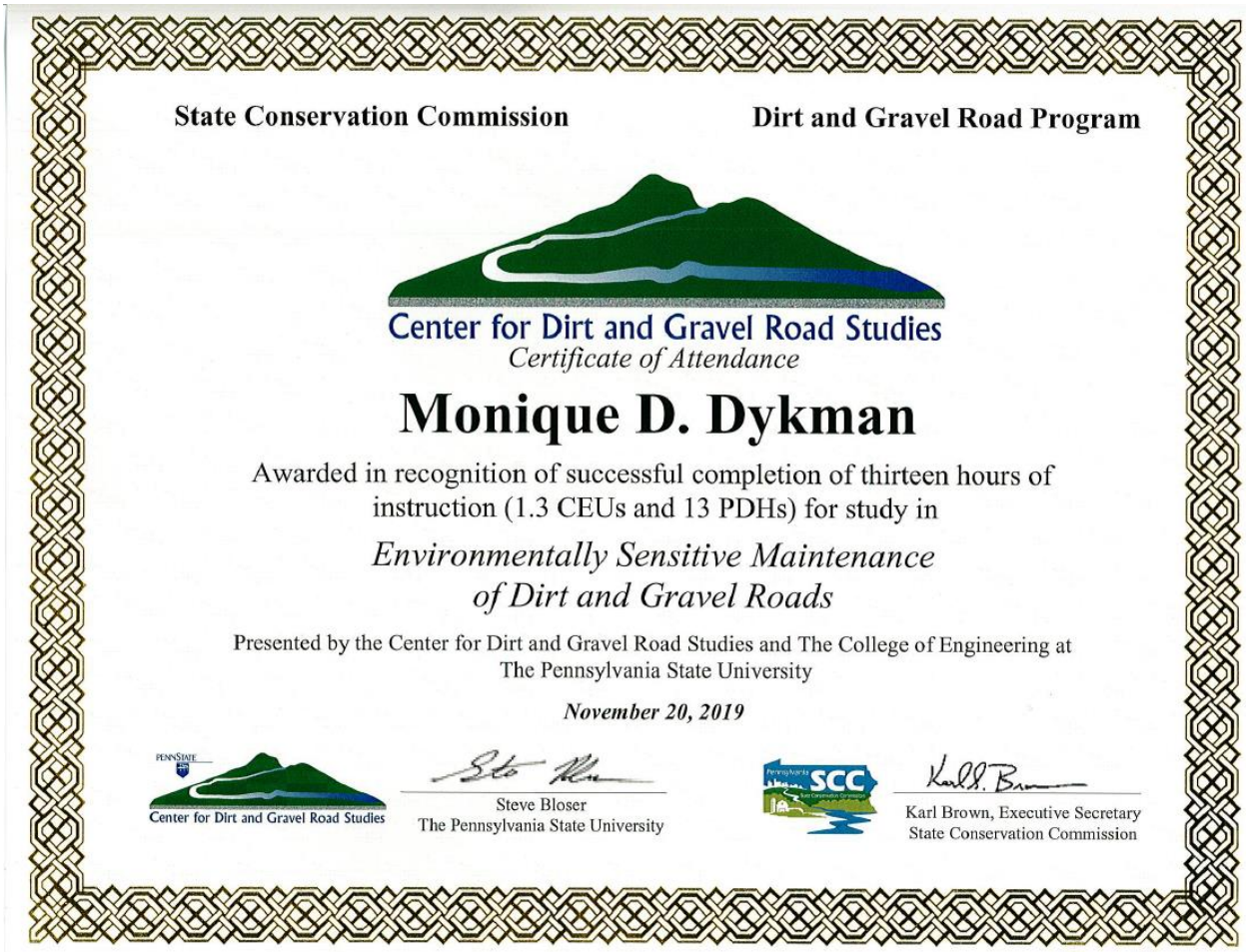
**MCM #6: BMP #3 - Employee Training**

LONDONDERRY TOWNSHIP

**MUNICIPAL EMPLOYEE MS4 TRAINING**

HRG Herbert, Rowland & Grubic, Inc. Engineering & Related Services

| Date | Attendee | Description of Training | Trainer |
|---|---|---|---|
| 7/18/2019 | Monique Dykman, Donato Grimaldi | SLF Training/Permit | PSU Online |
| 8/7-8/8 | Monique Dykman | Read the Farm | Many - Hosted by Penn State Ag and Environmental Center |
| 10/3/2019 | Andy Brandt, Jeff, John | Salt and Snow Management | PennDOT |
| 11/15/2019 | Monique Dykman | 2019 PSATS Stormwater Confrence | PSATS |
| 11/20/2019 | Monique Dykman, Andy Brandt, Jeff Templin | Low Volume Roads | PSU |
| 12/6/ | Monique Dykman | Turning a New Leaf Confrence | CCLC |



State Conservation Commission

Dirt and Gravel Road Program

Center for Dirt and Gravel Road Studies

*Certificate of Attendance*

**Monique D. Dykman**

Awarded in recognition of successful completion of thirteen hours of instruction (1.3 CEUs and 13 PDHs) for study in

*Environmentally Sensitive Maintenance of Dirt and Gravel Roads*

Presented by the Center for Dirt and Gravel Road Studies and The College of Engineering at The Pennsylvania State University

***November 20, 2019***

Center for Dirt and Gravel Road Studies

Steve Bloser
The Pennsylvania State University

Karl Brown, Executive Secretary
State Conservation Commission

# Certificate of Attendance

*Andy Brandt*

attended a PennDOT-sponsored training program on

***Salt & Snow Management***

Presented October 3, 2019

pennsylvania
DEPARTMENT OF TRANSPORTATION
LOCAL TECHNICAL ASSISTANCE PROGRAM

## Appendix G MCM #6 (Figure 2)

### Municipal Employee MS4 Trainings

| MCM #6: BMP #3 - Employee Training- In House | | | |
|---|---|---|---|
| LONDONDERRY TOWNSHIP | | MUNICIPAL EMPLOYEE MS4 TRAINING | HRG Herbert, Rowland & Grubic, Inc. Engineering & Related Services |
| **Date** | **Attendees** | **Description of Training** | **Trainer** |
| 8/5/2019 | See sign in sheet | BOS Annual Stormwater Presentation | **Monique Grimaldi and Donato Grimaldi** |
| 8/22/2019 | | PW training | **Monique Grimaldi and Donato Grimaldi** |
| 8/14/2019 | See sign in sheet | Staff training | **Monique Grimaldi and Donato Grimaldi** |
| | Dee and Travis | New Hire Training | **Monique Dykman** |

Regular Meeting
August 5, 2019
Page 3

b. Citations –As a result of citations sent to the owner of the 230 Diner, a hearing will take place on Wednesday.

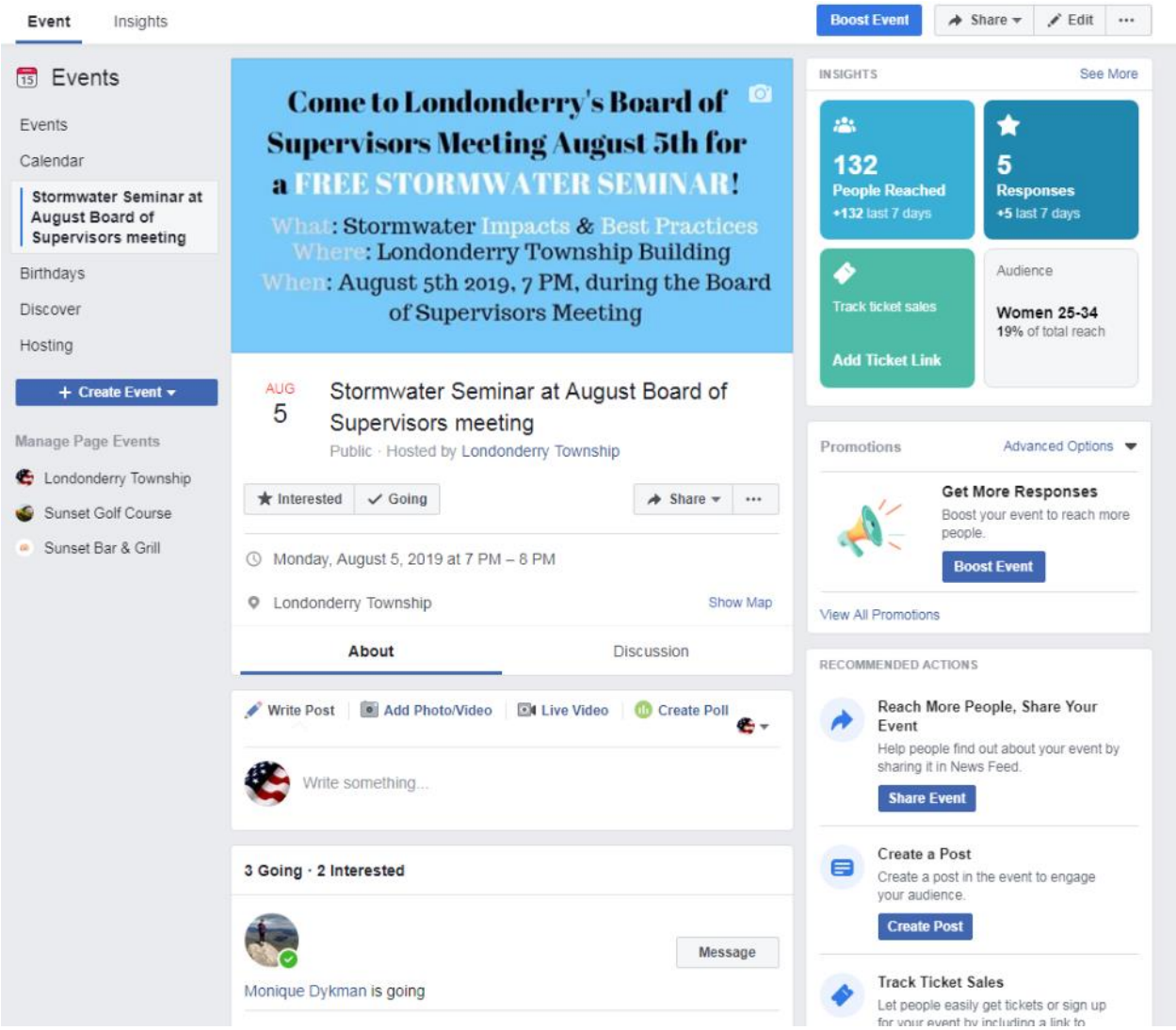
c. Harrisburg Pike and Deodate Intersection Property – New owners purchased and started a clean-up process on the property. No proposals have been submitted by the new owners for future usage of the property.

**MS-4 Environmental Department** - Ms. Monique Dykman reported:

a. Updates – Hosted a very successful first workshop with 26 attendees. Four roads are eligible for low volume road funding. Funding will be applied for this project based on priority. The Department is in the process of completing their Annual MS4 Report. Three out out four landowners on Hoffer Road have signed on for the pollution reduction plan for the Conewago Creek Restoration.

b. PA Sustainable Community Award - Mr. Grimaldi, MS4 Intern, announced the Department was awarded a Bronze Level Award. They are pleased with that level award for the size of the Londonderry Community. Having this award will make the Township more eligible for grants.

c. Ms. Dykman and Mr. Grimaldi gave a PowerPoint Presentation to the Board and members of the community members on Stormwater Awareness and the Spotted Lanternfly.


Event
Insights
Boost Event
Share
Edit
Events
Events
Calendar
Stormwater Seminar at August Board of Supervisors meeting
Birthdays
Discover
Hosting
+ Create Event
Manage Page Events
Londonderry Township
Sunset Golf Course
Sunset Bar & Grill
Come to Londonderry's Board of Supervisors Meeting August 5th for a FREE STORMWATER SEMINAR!
What: Stormwater Impacts & Best Practices
Where: Londonderry Township Building
When: August 5th 2019, 7 PM, during the Board of Supervisors Meeting
AUG
5
Stormwater Seminar at August Board of Supervisors meeting
Public · Hosted by Londonderry Township
Interested
Going
Share
Monday, August 5, 2019 at 7 PM – 8 PM
Londonderry Township
Show Map
About
Discussion
Write Post
Add Photo/Video
Live Video
Create Poll
Write something...
3 Going · 2 Interested
Message
Monique Dykman is going
INSIGHTS
See More
132
People Reached
+132 last 7 days
5
Responses
+5 last 7 days
Track ticket sales
Add Ticket Link
Audience
Women 25-34
19% of total reach
Promotions
Advanced Options
Get More Responses
Boost your event to reach more people.
Boost Event
View All Promotions
RECOMMENDED ACTIONS
Reach More People, Share Your Event
Help people find out about your event by sharing it in News Feed.
Share Event
Create a Post
Create a post in the event to engage your audience.
Create Post
Track Ticket Sales
Let people easily get tickets or sign up

**Public Meeting Sign-In Sheet for all Attendees**

**Meeting Purpose:**

Board of Supervisors ___ , Planning ___, Zoning ___, Other MS4 BOS Presentation

**DATE:** 8/5/19

| last | first | num | street | phone | e-mail |
|---|---|---|---|---|---|
| SHEEHAN | Joe | 869 | HICKORY LN | | |
| Meyer | Sara & Jay | | Woodcrest Dr. | | |
| Blair | John Pattie | | Woodcrest Dr. | | |
| Jones | Tom | 4454 | Woodcrest Dr | | |
| CARLSON | GARY | 98 | N. GEYERS CH. | | |
| Winiewski | Steve | | Locust Grove Rd | | |
| Hugs | Laura | | Press & Journal | | |
| Lyons | Jennifer | 1462 | Zion Road | | |
| Kate Bomberger | Kate | 1901 | Light Ave | | |
| Anthony Prevost | Anthony | | PVO | | |
| Kenworthy | ANDREW | 1700 | Fairmont Drive 17111 | | |
| Anna Dale | | | | | |
| Rob Kopp | | | | | |
| Bart Shellenhamer | | | | | |
| Mel Hershey | | | | | |
| Michael Geyer | | | | | |
| Steve Letavic | | | | | |
| Jeff Burkhart | | | | | |
| Jim Diamond | | | | | |
| Sam Ristoff | | | | | |

office Stormwater / SLF

**~~Public~~ Meeting Sign-In Sheet for all Attendees**

**Meeting Purpose:**

Board of Supervisors ___ , Planning ___, Zoning ___, Other office

**DATE:** 8/14/19

| last | first | num | street | phone | e-mail |
|---|---|---|---|---|---|
| Murtorff | kathy | | | | |
| Evans | Angie | | | | |
| Kazlauskas | Ed | | | | |
| Burkhart | Jeff | | | | |
| Letavic | Steve | | | | |
| Rose | Jen | | | | |
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presented by
Donato Grimaldi
Monique Dyhan

## Appendix G MCM #6 (Figure 3)

## Township BMP Inspection & Maintenance Form

**MCM #6; BMP #2 - Develop an Operations and Maintenance Plan for Municipal Operations**

LONDONDERRY TOWNSHIP

**TOWNSHIP BMP INSPECTION AND MAINTENANCE FORM**

HRG Herbert, Rowland & Grubic, Inc. Engineering & Related Services

| Date | Location | Action | Persons | Notes |
|---|---|---|---|---|
| 10/2/2019 | Rain Garden | Weeding/replanting | Monique and Travis | |
| 11/14/2019 | Swatara Creek Buffer | Post Planting Buffer Maintenance | Monique and Travis | |
| 12/5/2019 | Monthly Inspections | See Example of forms attached | Monique | |
| 2/3/2020 | Monthly Inspections | See Example of forms attached | Monique | |
| 3/2/2020 | Monthly Inspections | See Example of forms attached | Monique | |
| 5/27/2020 | Monthly Inspections | See Example of forms attached | Monique | |
| 6/17/2020 | Monthly Inspections | See Example of forms attached | Monique | |
| 7/22/2020 | Monthly Inspections | See Example of forms attached | Monique | |
| | | | | |

## Inspection Record

Municipality: Londonderry Township

Permit #: N/A

Record: _____

Inspection Date: 7/22/20

Inspector: Monique Dyhan

**General Information**

| Weather Condition(s) | Precipitation | Inspection Type |
|---|---|---|
| ☑ Clear | ☐ Misty | ☑ Regular |
| ☐ Partly Cloudy | ☐ Light Rain | ☐ Pre-Rain Event |
| ☐ Cloudy | ☐ Rain | ☐ During a Rain Event |
| **Wind Condition** | ☐ Heavy Rain | ☐ Post Rain Event |
| ☐ None | ☐ Snow | ☐ Other: _____ |
| ☑ 1 to 10 mph | ☐ Hail | **Other of Note** |
| ☐ Greater than 10 mph | ☐ Other: _____ | |

**Inspection of BMPs**

| BMP | Facility or Activity | Properly Functioning | Maintenance or Repairs | Photos | Follow-Up Required |
|---|---|---|---|---|---|
| Butter | ☑ Facility ☐ Activity | ☑ Yes ☐ No | ☐ Yes ☑ No | ☐ Yes | ☐ Yes ☑ No |
| **Comments & Notes:** Looks good! Tires are out of shelter | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |
| **BMP** | **Facility or Activity** | **Properly Functioning** | **Maintenance or Repairs** | **Photos** | **Follow-Up Required** |
| Rain garden | ☑ Facility ☐ Activity | ☑ Yes ☐ No | ☐ Yes ☑ No | ☐ Yes | ☐ Yes ☐ No |
| **Comments & Notes:** Still needs mulch in upper garden | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |
| **BMP** | **Facility or Activity** | **Properly Functioning** | **Maintenance or Repairs** | **Photos** | **Follow-Up Required** |
| Litter | ☐ Facility ☐ Activity | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes | ☐ Yes ☐ No |
| **Comments & Notes:** looks good! | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |





| BMP | Facility or Activity | Properly Functioning | Maintenance or Repairs | Photos | Follow-Up Required |
|---|---|---|---|---|---|
| | ☐ Facility ☐ Activity | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes | ☐ Yes ☐ No |
| **Comments & Notes:** | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |
| **BMP** | **Facility or Activity** | **Properly Functioning** | **Maintenance or Repairs** | **Photos** | **Follow-Up Required** |
| | ☐ Facility ☐ Activity | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes | ☐ Yes ☐ No |
| **Comments & Notes:** | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |

**General Comments**

Does the MS4 PPGHP reflect activities & operations: ☑ Yes ☐ No

Does the MS4 PPGHP Need Revised: ☐ Yes ☑ No

Clarification

Concerns (including locations and potential action)

Other Comments/Notes

**Planned Follow-up Action:**

☐ Follow-up Inspection ☐ Training Activity _____

Monique Dyhan — Signature of Inspector — Date: 7/22/20

Monique Dyhan — Printed Name of Inspector

Signature of Authorized Municipal Representative — Date

Printed Name of Authorized Municipal Representative





## Inspection Record

Municipality: Londonderry Township

Permit #: N/A

Record: _____

Inspection Date: 6/17/20

Inspector: Monique Dyhan

**General Information**

| Weather Condition(s) | Precipitation | Inspection Type |
|---|---|---|
| ☐ Clear | ☐ Misty | ☑ Regular |
| ☑ Partly Cloudy | ☐ Light Rain | ☐ Pre-Rain Event |
| ☐ Cloudy | ☐ Rain | ☐ During a Rain Event |
| **Wind Condition** | ☐ Heavy Rain | ☐ Post Rain Event |
| ☐ None | ☐ Snow | ☐ Other: _____ |
| ☑ 1 to 10 mph | ☐ Hail | **Other of Note** |
| ☐ Greater than 10 mph | ☐ Other: _____ | |

**Inspection of BMPs**

| BMP | Facility or Activity | Properly Functioning | Maintenance or Repairs | Photos | Follow-Up Required |
|---|---|---|---|---|---|
| Pollinator | ☑ Facility ☐ Activity | ☑ Yes ☐ No | ☐ Yes ☑ No | ☐ Yes | ☐ Yes ☑ No |
| **Comments & Notes:** Pulled hand fil of weeds, looks good! | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |
| **BMP** | **Facility or Activity** | **Properly Functioning** | **Maintenance or Repairs** | **Photos** | **Follow-Up Required** |
| Rain garden | ☑ Facility ☐ Activity | ☑ Yes ☐ No | ☐ Yes ☑ No | ☐ Yes | ☑ No |
| **Comments & Notes:** Mulch soon! | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |
| **BMP** | **Facility or Activity** | **Properly Functioning** | **Maintenance or Repairs** | **Photos** | **Follow-Up Required** |
| Butter | ☑ Facility ☐ Activity | ☑ Yes ☐ No | ☐ Yes ☑ No | ☐ Yes | ☑ No ☐ No |
| **Comments & Notes:** Looks good! | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |





| BMP | Facility or Activity | Properly Functioning | Maintenance or Repairs | Photos | Follow-Up Required |
|---|---|---|---|---|---|
| | ☐ Facility ☐ Activity | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes | ☐ Yes ☐ No |
| **Comments & Notes:** | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |
| **BMP** | **Facility or Activity** | **Properly Functioning** | **Maintenance or Repairs** | **Photos** | **Follow-Up Required** |
| | ☐ Facility ☐ Activity | ☐ Yes ☐ No | ☐ Yes ☐ No | ☐ Yes | ☐ Yes ☐ No |
| **Comments & Notes:** | | | | | **Spill, Leak, or Discharge observed** ☐ Yes ☐ No |

**General Comments**

Does the MS4 PPGHP reflect activities & operations: ☑ Yes ☐ No

Does the MS4 PPGHP Need Revised: ☐ Yes ☑ No

Clarification

Concerns (including locations and potential action)

Other Comments/Notes

**Planned Follow-up Action:**

☐ Follow-up Inspection ☐ Training ☐ Activity: _____

Monique Dyhan — Signature of Inspector — Date: 6/17/20

Monique Dyhan — Printed Name of Inspector

Signature of Authorized Municipal Representative — Date

Printed Name of Authorized Municipal Representative

# Inspection Record

Municipality: Londonderry Township

Record: _____

Permit #: N/A

Inspection Date: 12/5/19

Inspector: Monique Dykman

| General Information | | |
|---|---|---|
| **Weather Condition(s)** | **Precipitation** | **Inspection Type** |
| □ Clear | □ Misty | ☑ Regular |
| ☑ Partly Cloudy | □ Light Rain | □ Pre-Rain Event |
| □ Cloudy | □ Rain | □ During a Rain Event |
| **Wind Condition** | □ Heavy Rain | □ Post Rain Event |
| □ None | □ Snow | □ Other: _____ |
| ☑ 1 to 10 mph | □ Hail | **Other of Note** |
| □ Greater than 10 mph | □ Other: _____ | |

Inspection of BMPs

| BMP | Facility or Activity | Properly Functioning | Maintenance or Repairs | Photos | Follow-Up Required |
|---|---|---|---|---|---|
| Pollinator garden | ☑ Facility □ Activity | ☑ Yes □ No | □ Yes ☑ No | □ Yes | □ Yes ☑ No |
| **Comments & Notes:** Plants in dormancy | | | | | **Spill, Leak, or Discharge observed** □ Yes □ No |

| BMP | Facility or Activity | Properly Functioning | Maintenance or Repairs | Photos | Follow-Up Required |
|---|---|---|---|---|---|
| Rain garden | ☑ Facility □ Activity | ☑ Yes □ No | □ Yes ☑ No | □ Yes | □ Yes ☑ No |
| **Comments & Notes:** dormancy | | | | | **Spill, Leak, or Discharge observed** □ Yes □ No |

| BMP | Facility or Activity | Properly Functioning | Maintenance or Repairs | Photos | Follow-Up Required |
|---|---|---|---|---|---|
| Gutter | ☑ Facility □ Activity | ☑ Yes □ No | □ Yes ☑ No | □ Yes | □ Yes ☑ No |
| **Comments & Notes:** look good | | | | | **Spill, Leak, or Discharge observed** □ Yes □ No |

## Appendix G MCM #6 (Figure 4)

### Municipal Stormwater Infrastructure Inspection & Maintenance

*Monthly Inspections:*

**MCM #6: BMP #2 - Stormsewer System Inspection/Maintenance and Repairs**

LONDONDERRY TOWNSHIP

**MUNICIPAL STORMWATER INFRASTRUCTURE INSPECTION AND MAINTENANCE**

HRG Herbert, Rowland & Grubic, Inc. Engineering & Related Services

| Date | Facility or Inlet | Inspection Results | Action Taken or Recommended | Inspector |
|---|---|---|---|---|
| 7/1/2019 | Public Works, Golf Course Maintenance building, Club House | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Monique Dykman |
| 8/5/2019 | Public Works, Golf Course Maintenance building, Club House | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Monique Dykman |
| 9/3/2019 | Public Works, Golf Course Maintenance building, Club House | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Monique Dykman |
| 10/7/2019 | Public Works, Golf Course Maintenance building, Club House | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Monique Dykman |
| 12/5/2019 | Public Works, Golf Course Maintenance building, Club House | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Monique Dykman |
| 1/6/2020 | Public Works, Golf Course Maintenance building, Club House | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Monique Dykman |
| 2/7/2020 | Public Works, Golf Course Maintenance building, Club House | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Monique Dykman |
| 3/2/2020 | Public Works, Golf Course Maintenance building, Club House | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Monique Dykman |
| 4/2/2020 | Public works | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Individual Departments Dues to COVID |
| 5/27/2020 | Public works | See attached Monthly Inspection Forms | See attached Monthly Inspection Forms | Individual Departments Dues to COVID |

*Monthly Inspection Samples:*

LONDONDERRY TOWNSHIP

## MS4 Monthly Site Inspection Checklist

**Details**

| | |
|---|---|
| Date: 10/7/19 | Time: 11:30 |
| Area/Building: | Clubhouse – Sunset Golf Course |
| Inspector: | Monique Dykman |
| Witnesses: | Travis Tacblosky |

**Inspection Items**

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | N/A | Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers | N/A |
| Visible, unattended spills | N | Flammables are stored in a fireproof locked cabinet | N/A |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | N/A | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | N/A |

**Spill Kits**

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Outside N/ Gas Tank | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Inside Cart Storage | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |

**Inlets/Drains/Grates**

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) | ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) |
|---|---|---|---|---|---|
| 1 | ☐Yes ☑No | ☑Yes ☐No ☐N/A | 4 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 2 | ☐Yes ☑No | ✓ N/A no inlet filter Jub? | 5 | ☐Yes ☐No | ✓ N/A no inlet filter |
| 3 | ☐Yes ☑No | ✓ N/A no inlet filter | | Suds?! | |

Comments: _____

Photos Attached:___

Inspector Signature: Monique Dykman Date: 10/7/19

LONDONDERRY TOWNSHIP

## MS4 Monthly Site Inspection Checklist

**Details**

| | |
|---|---|
| Date: 10/7/19 | Time: 12:30 |
| Area/Building: | Golf Course Maintenance |
| Inspector: | Monique Dykman |
| Witnesses: | Travis |

**Inspection Items**

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | Y | Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers | Y |
| Visible, unattended spills | N/A | Flammables are stored in a fireproof locked cabinet | Y |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | Y | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | N/A |

**Spill Kits**

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Garage 7 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 8 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 9 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |

**Inlets/Drains/Grates**

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) | |
|---|---|---|---|
| 7 | ☐Yes ☑No | ☐Yes ☐No ☐N/A | a little backed up |
| 8 | ☐Yes ☑No | ✓ N/A *this inlet has a holding tank, which gets pumped* | |

Comments: _____

Photos Attached:___

Inspector Signature: Monique Dykman Date: 10/7/19

LONDONDERRY TOWNSHIP

## MS4 Monthly Site Inspection Checklist

| | |
|---|---|
| Date: 10/7/19 | Time: 12 |
| Area/Building: | Public Works |
| Inspector: | Monique Dykman |
| Witnesses: | Travis Tacblosky |

**Inspection Items**

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | Y | Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers | Y |
| Visible, unattended spills | N | Flammables are stored in a fireproof locked cabinet | Y |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | Y | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | Y |

**Spill Kits**

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Garage 1 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garages 2-3 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. By Staircase | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 5 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |

**Inlets/Drains/Grates**

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) | ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) |
|---|---|---|---|---|---|
| 1 | ☐Yes ☑No | ✓ N/A no inlet filter | 6 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 2 | ☐Yes ☑No | ✓ N/A no inlet filter | 9 | ☐Yes ☑No | ☐Yes ☐No ☐N/A |
| 3 | ☐Yes ☑No | ☐Yes ☐No ☐N/A | 10 | ☐Yes ☑No | ✓ N/A no inlet filter/A |
| 4 | ☐Yes ☑No | ✓ N/A no inlet filter | 11 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 5 | Inlet filled 6/18 | Inlet filled 6/18 | 12 | ☐Yes ☑No | ☐Yes ☐No ☑N/A |

Comments: some debris

Photos Attached:___

Inspector Signature: Monique Dykman Date: 10/7/19

LONDONDERRY TOWNSHIP

## MS4 Monthly Site Inspection Checklist

| | |
|---|---|
| Date: 11/6/20 | Time: 12:15 |
| Area/Building: | Public Works |
| Inspector: | Monique Dykman |
| Witnesses: | |

**Inspection Items**

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | Y | Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers | Y |
| Visible, unattended spills | N | Flammables are stored in a fireproof locked cabinet | Y |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | Y | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | Y |

**Spill Kits**

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Garage 1 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garages 2-3 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. By Staircase | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 5 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |

**Inlets/Drains/Grates**

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) | ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) |
|---|---|---|---|---|---|
| 1 | ☐Yes ☑No | ✓ N/A no inlet filter | 6 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 2 | ☐Yes ☑No | ✓ N/A no inlet filter | 9 | ☐Yes ☑No | ☑Yes ☐No ☐N/A leaves |
| 3 | ☐Yes ☑No | ☑Yes ☐No ☐N/A | 10 | ☐Yes ☑No | ✓ N/A no inlet filter/A |
| 4 | ☐Yes ☑No | ✓ N/A no inlet filter | 11 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 5 | Inlet filled 6/18 | Inlet filled 6/18 | 12 | ☐Yes ☑No | ☑Yes ☐No ☐N/A |

Comments: _____

Photos Attached:___

Inspector Signature: Monique Dykman Date: 11/6/20

LONDONDERRY TOWNSHIP

## MS4 Monthly Site Inspection Checklist

### Details

| | |
|---|---|
| Date: 1/6/20 | Time: 12:00 |
| Area/Building: | Golf Course Maintenance |
| Inspector: | Monique Dykman |
| Witnesses: | |

### Inspection Items

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | Y | Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers | Y |
| Visible, unattended spills | N | Flammables are stored in a fireproof locked cabinet | Y |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | Y | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | N/A |

**Spill Kits**

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Garage 7 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 8 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 9 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |

**Inlets/Drains/Grates**

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) |
|---|---|---|
| 7 | ☐Yes ☑No | ☑Yes ☐No ☐N/A |
| 8 | ☐Yes ☑No | ✓ N/A *this inlet has a holding tank, which gets pumped* |

Comments:

Photos Attached:___

Inspector Signature: Monique Dykman Date: 1/6/20

LONDONDERRY TOWNSHIP

## MS4 Monthly Site Inspection Checklist

### Details

| | |
|---|---|
| Date: 1/6/20 | Time: 11:20 |
| Area/Building: | Clubhouse – Sunset Golf Course |
| Inspector: | Monique Dykman |
| Witnesses: | |

### Inspection Items

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | N/A | Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers | N/A |
| Visible, unattended spills | N | Flammables are stored in a fireproof locked cabinet | N/A |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | N/A | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | N/A |

**Spill Kits**

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Outside N/ Gas Tank | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Inside Cart Storage | ☐Yes ☐No | ☐Yes ☐No | ☐Yes ☐No |

**Inlets/Drains/Grates**

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) | ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) |
|---|---|---|---|---|---|
| 1 | ☐Yes ☑No | ☑Yes ☐No ☐N/A | 4 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 2 | ☐Yes ☑No | ✓ N/A no inlet filter | 5 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 3 | ☐Yes ☑No | ✓ N/A no inlet filter | | | |

Comments:

Photos Attached:___

Inspector Signature: Monique Date: 1/6/20

LONDONDERRY TOWNSHIP

## MS4 Monthly Site Inspection Checklist

### Details

| | |
|---|---|
| Date: 12/5/19 | Time: 10:50 |
| Area/Building: | Clubhouse – Sunset Golf Course |
| Inspector: | Monique |
| Witnesses: | |

### Inspection Items

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | N/A | Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers | N/A |
| Visible, unattended spills | N | Flammables are stored in a fireproof locked cabinet | N/A |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | N/A | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | N/A |

**Spill Kits**

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Outside N/ Gas Tank | ☑Yes ☐No | ☑Yes ☐No | ☐Yes ☐No |
| S.K. Inside Cart Storage | ☐Yes ☐No | ☐Yes ☐No | ☐Yes ☐No |

**Inlets/Drains/Grates**

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) | ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) |
|---|---|---|---|---|---|
| 1 | ☐Yes ☑No | ☑Yes ☐No ☐N/A | 4 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 2 | ☐Yes ☑No | ✓ N/A no inlet filter | 5 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 3 | ☐Yes ☑No | ✓ N/A no inlet filter | | | |

Comments:

Photos Attached:___

Inspector Signature: Monique Date: 12/5/19

LONDONDERRY TOWNSHIP

## MS4 Monthly Site Inspection Checklist

### Details

| | |
|---|---|
| Date: 12/5/19 | Time: 10:40 |
| Area/Building: | Golf Course Maintenance |
| Inspector: | Monique |
| Witnesses: | |

### Inspection Items

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | Y | Chemicals and oils are stored indoors on spill-proof skids, properly labeled, and in sealed containers | Y |
| Visible, unattended spills | N | Flammables are stored in a fireproof locked cabinet | Y |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | Y | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | N/A |

**Spill Kits**

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Garage 7 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 8 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 9 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |

**Inlets/Drains/Grates**

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) |
|---|---|---|
| 7 | ☐Yes ☑No | ☑Yes ☐No ☐N/A |
| 8 | ☐Yes ☑No | ✓ N/A *this inlet has a holding tank, which gets pumped* |

Comments:

Photos Attached:___

Inspector Signature: Monique Date: 12/5/19

LONDONDERRY TOWNSHIP

# MS4 Monthly Site Inspection Checklist

| | | | |
|---|---|---|---|
| Date: | 12/5 | Time: | 10:15 |
| Area/Building: | Public Works | | |
| Inspector: | Monique Dylan | | |
| Witnesses: | | | |

## Inspection Items

| Item | Yes, No or N/A | Item | Yes, No or N/A |
|---|---|---|---|
| All inspections/logs are available and up to date | Y | Chemicals and oils are stored indoors on spill proof skids, properly labeled, and in sealed containers | Y |
| Visible, unattended spills | N | Flammables are stored in a fireproof locked cabinet | Y |
| Leaking equipment and vehicles are properly stored under a roof and leaks are contained using a drip pan | N/A | All rock, dirt, sand, and salt is covered with a tarp or housed under a roofed area | Y |

### Spill Kits

| Spill Kit ID | Spill kits are present, properly labeled, and instructions are visible | Spill kits stocked with proper materials (deposit bin w/ liner, storage bin, oil spill boom, oil dry, scoop) | Spill kits are located in convenient areas away from vehicles and foot traffic |
|---|---|---|---|
| S.K. Garage 1 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garages 2-3 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. By Staircase | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |
| S.K. Garage 5 | ☑Yes ☐No | ☑Yes ☐No | ☑Yes ☐No |

### Inlets/Drains/Grates

| ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) | ID | Rock or debris blocking storm drain | Inlet filters are functioning properly and emptied quarterly (check paperwork) |
|---|---|---|---|---|---|
| 1 | ☐Yes ☑No | ✓ N/A no inlet filter | 6 | ☑Yes ☐No | ✓ N/A no inlet filter |
| 2 | ☐Yes ☑No | ✓ N/A no inlet filter | 9 | ☐Yes ☑No | ☑Yes ☐No ☐N/A |
| 3 | ☑Yes ☑No | ☑Yes ☐No ☐N/A 4ever | 10 | ☐Yes ☑No | ✓ N/A no inlet filter/A |
| 4 | ☐Yes ☑No | ✓ N/A no inlet filter | 11 | ☐Yes ☑No | ✓ N/A no inlet filter |
| 5 | Inlet filled 6/18 | Inlet filled 6/18 | 12 | ☐Yes ☑No | ☑Yes ☐No ☐N/A |

Comments: _____

Photos Attached: ___

Inspector Signature: Monique Date: 10/5/19

## Londonderry Township Equipment Check In/Out Inspection Sheet

**Truck Number: 1** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Found (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Miles Start | Miles Finish | Post Trip | Salt (Y/N) | Plow (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JT | 5/1 | ✓ | Close Roads | O O | O O | O O | ✓ | | 154124 | 154148 | | O O | O O |
| JT | 5/4 | ✓ | Rd Checks | O O | O O | O O | ✓ | | 154148 | 154194 | | O O | O O |
| JT | 5/11 | ✓ | Rd checks | O O | O O | O O | ✓ | ✓ | 154194 | 154217 | | O O | O O |
| JT | 5/12 | ✓ | Cleveland Bvd | O O | O O | O O | ✓ | | 154217 | | | O O | O O |
| JT | 5/13 | ✓ | MGR for Inspection | O O | O O | O O | | | 154242 | | | O O | O O |
| MN | 21 | | Missies | O O | O O | O O | | | 154268 | 154299 | | O O | O O |
| MN | 22 | | Rch Scout | O O | O O | O O | — | — | 154299 | 154305 | | O O | O O |
| JT | 26 | ✓ | Rd Checks | O O | O O | O O | — | | 154305 | 154340 | | O O | O O |
| | | | | O O | O O | O O | | | | | | O O | O O |
| | | | | O O | O O | O O | | | | | | O O | O O |
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| | | | | O O | O O | O O | | | | | | O O | O O |

## Londonderry Township Equipment Check In/Out Inspection Sheet

**Equipment Number: #6 Loader** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Fnd (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Hours Start | Hours Finish | Post Trip | Salt (Y/N) | Plow (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AB | 05-05 | ✓ | Topsoil Pile | O O | O O | O O | ✓ | | 12824 | 12828 | | O O | O O |
| AB | 05-13 | ✓ | Topsoil Pile | O O | O O | O O | ✓ | | 12828 | | | O O | O O |
| MW | 15 | ✓ | Shop Grass | O O | O O | O O | — | — | 12831 | | | O O | O O |
| JT | 20 | ✓ | Load woodchips | O O | O O | O O | — | | 12837 | | | O O | O O |
| AB | 05-21 | ✓ | Mulch Pile | O O | O O | O O | | | 12841 | | | O O | O O |
| | | | | O O | O O | O O | | | | | | O O | O O |
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# Londonderry Township Equipment Check In/Out Inspection Sheet

**Truck Number: 24** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Found (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Miles Start | Miles Finish | Post Trip | Salt (Y/N) | Plow (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MN | 5-5-20 | ✓ | Mow Parks | O ● | O ● | O ● | ✓ | — | 96129 | 96148 | ✓ | O ● | O ● |
| MN | 5-7-20 | ✓ | Baseburn | O ● | O ● | O ● | ✓ | — | 96148 | | | O O | O O |
| [illegible] | 5/14-20 | | Mow Parks | O ● | O ● | O ● | — | — | 96162 | | | O O | O O |
| [illegible] | 5/14-20 | ✓ | Rec checks | O ● | O ● | O ● | — | — | 96212 | | | O ● | O ● |
| MN | 21 | — | Mow Parks | O ● | O ● | O ● | — | | 96236 | | | O ● | O ● |
| MN | 29 | | Mowing Parks | ● O | O ● | O ● | | | 96247 | 96264 | | O O | O O |
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MAY 2020

## Londonderry Township Fueling Tank Inspection Sheet

### Gas

| Name | Date | Gauge | New Delivery | Damage Present |
|---|---|---|---|---|
| 5/1 JT | 5/1 | 1/4+ | | |
| 5/4 MN | 5/4 | 1/4 | — | GAuge Don't Read Right |
| CK | 5/5 | 1/4 | — | — |
| JT | 5/8 | 1/4- | | |
| CK | 5/14 | 1/4- | — | — |
| JT | 5/15 | 1/2 | | |
| MN | 5/18 | 1/2 | | " |
| CK | 5/20 | 1/2- | | |
| JT | 5/22 | 1/4+ | | |
| JT | 5/29 | Full | | |

### Diesel

| Name | Date | Gauge | New Delivery | Damage Present |
|---|---|---|---|---|
| 5/1 JT | 5/1 | 3/4- | | |
| MN | 5/4 | 5/8+ | | |
| CK | 5/5 | 5/8 | — | — |
| JT | 5/8 | 5/8- | | |
| CK | 5/14 | 1/2+ | — | — |
| JT | 5/15 | 1/2 | | |
| MN | 5/18 | 1/2 | | |
| CK | 5/20 | 1/2- | | |
| JT | 5/22 | 3/8 | | |
| JT | 5/29 | 7/8- | | |

Roads / Parks MAY 2020

# Londonderry Township Equipment Fueling

**Gas**

| Name | Date | Equipment | Total |
|---|---|---|---|
| AB | 05-14 | 72" Zero Turn | 5.65 |
| MN | 05-14 | 60" Zero Turn | 2.67 |
| AB | 05-19 | CAN | 1.34 |
| AB | 05-29 | Mowers | 11.0 |

**Diesel**

| Name | Date | Equipment | Total |
|---|---|---|---|
| AB | 05-01 | Tr 2 | 26.47 |
| MN | 5-4-20 | 40 | 18.65 |
| AB | 05-06-20 | Tr 6 | 28.98 |
| MN | 5-6-20 | Truck 5 | 27.49 |
| JT | 5-7-20 | #9 | 141.29 |
| AB | 05-07 | Tractor #7 | 24.5 |
| AB | 05-08 | #7 | 19.21 |
| JT | 5-11 | #9 | 10.55 |
| | | | ~~[illegible]~~ |
| JT | 5/15 | #10 | 28.63 |
| AB | 05-18 | Tr 2 | 25.34 |
| JT | 5/21 | Transfer Tank | 45.35 |
| JT | 5/22 | #10 | 27.16 |
| MN | 5/28 | #40 | 30.04 |
| AB | 05-28 | Tractor | 17.67 |
| JT | 5/29 | #9 | 5.85 |
| JT | 5/29 | #9 | 11.73 |

MAY 2020 GOLF COURSE

# Londonderry Township Equipment Fueling

## Gas

| Name | Date | Equipment | Total |
|---|---|---|---|
| T.F. | 5/3/20 | John Deere "0" Turn | 7.34 |
| KS | 5/4/20 | Gas Can | 5.15 |
| DS | 5/4/20 | Sand Star | 1.9 |
| MAO | 5-4 | 29 | 2.41 |
| T.F. | 5/4/20 | #85 | 3.38 |
| T.F. | 5/5/20 | #86 | 2.28 |
| KS | 5/6/20 | Cart 11 | 1.74 |
| MAO | 5-6 | 29 | 1.13 |
| T.F. | 5/6/20 | #86 | 1.58 |
| T.F. | 5/6/20 | John Deere "0" Turn | 6.75 |
| KS | 5/7/20 | 0-Turn | 4.45 |
| MAO | 5-8 | 42 | 1.14 |
| T.F. | 5/8/20 | #86 | 2.11 |
| T.F. | 5/11/20 | #86 | 1.99 |
| MAO | 5-11 | 42 | 1.35 |
| MAO | 5-11 | 29 | 3.50 |
| DS | 5/11 | Sand Star | 1.7 |
| T.F. | 5/13/20 | #86 | 1.62 |
| MAO | 5-13 | 29 | 1.14 |
| MAO | 5/13 | 42 | 1.25 |
| KS | 5/14 | Gas Can | 3.52 |
| T.F. | 5/14/20 | #86 | 1.21 |
| KS | 5/15/20 | Sand Rake | 1.59 |
| MAO | 5-15 | 29/42 | 3.09 |
| MAO | 5-18 | 42 | 1.56 |
| T.F. | 5/18/20 | #86 | 3.10 |

## Diesel

| Name | Date | Equipment | Total |
|---|---|---|---|
| KS | 5/4/20 | 60 | 5.52 |
| KW | 5-4 | 46 | 12.05 |
| SK | 5/4 | 47 | 7.46 |
| DS | 5/4 | 65 | 9.83 |
| KS | 5/4/20 | 60 | 4.72 |
| SK | 5/5 | 46/47 | 19.42 |
| AMK | 5/5 | #60 | 3.36 |
| CK | 5/5 | #30 | 3.31 |
| KW | 5-8 | 46 | 6.00 |
| SK | 5/8 | 47 | 7.02 |
| KS | 5/8/20 | 60 | 3.50 |
| CK | 5/9/20 | Gas Can | 5.00 |
| KW | 5-11 | 46 | 11.30 |
| KS | 5/11/20 | 60 | 3.63 |
| SK | 5/11 | 47 | 7.02 |
| KW | 5-12 | 46 | 9.53 |
| SK | 5/12 | 47 | 7.46 |
| KS | 5/13 | JD Tractor | 2.09 |
| T.F. | 5/13/20 | #38 | 4.13 |
| KW | 5/14 | 45 | 9.5 |
| KW | 5/15 | 46-47 | 18.57 |
| KS | 5/18 | 65 | 7.95 |
| AMK | 5/18 | 62 | 3.86 |
| KW | 5-18 | 46-47 | 18.76 |
| KW | 5-19 | 46 | 6.68 |
| SK | 5/19 | 47 | 7.32 |

# Londonderry Township Equipment Check In/Out Inspection Sheet

**Truck Number: 2** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Found (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Miles Start | Miles Finish | Post Trip | Salt (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5/1 | | Close Rds | O O | O O | O O | | | | | | O O |
| JT | 5/2 | | | O Ø | O Ø | O Ø | | | 26550 | | | O Ø |
| AB | 05-04 | ✓ | Road ✓ 283 | O Ø | O Ø | O Ø | ✓ | | 26582 | | | O O |
| MW | | | OFFice | O O | O O | O O | | | 26594 | | | O O |
| AB | 05-08 | ✓ | Whitman/Lea | O Ø | O Ø | O Ø | ✓ | | 26607 | | | O Ø |
| AB | 05-11 | ✓ | Road ✓ 283 | O Ø | O Ø | O Ø | ✓ | | 26612 | 26638 | | O Ø |
| AB | 05-12 | ✓ | Stevenson Rd | O Ø | O O | O O | ✓ | | 26638 | | | O Ø |
| JT | 5/13 | ✓ | Hertzler Rd | O Ø | O Ø | O Ø | | | 26659 | 26686 | | O Ø |
| AB | 05-14 | ✓ | MJR | O Ø | O Ø | O Ø | ✓ | | 26686 | | | O Ø |
| MW | 5-15 | – | MJR | O Ø | O Ø | O Ø | – | – | 26714 | | | O Ø |
| AB | 05-18 | ✓ | Road Crew 283 | O Ø | O Ø | O Ø | ✓ | 25.34 | 26739 | 26765 | | O Ø |
| AB | 05-19 | ✓ | Zion Rd | O Ø | O Ø | O Ø | ✓ | | 26765 | | | O Ø |
| JT | 20 | ✓ | Locust Grove Rd Gettys | O Ø | O Ø | O Ø | | | 26785 | 26841 | | O Ø |
| JT | 21 | ✓ | " " " " | O Ø | O Ø | O Ø | | | 26841 | | | O O |
| JT | 22 | ✓ | " " " | O Ø | O Ø | O Ø | | | 26857 | | | O Ø |
| AB | 05-26 | ✓ | Road ✓ 182 | O Ø | O Ø | O Ø | ✓ | | 26866 | 26930 | | O Ø |
| AB | 05-27 | ✓ | Stevenson | O Ø | O Ø | O Ø | – | | 26930 | 26964 | | O Ø |
| AB | 05-28 | ✓ | Red Hill Rd | O Ø | O Ø | O Ø | ✓ | | 26964 | 26973 | | O Ø |
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# Londonderry Township Equipment Check In/Out Inspection Sheet

**Truck Number: 3** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Found (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Miles Start | Miles Finish | Post Trip | Salt (Y/N) |
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# Londonderry Township Equipment Check In/Out Inspection Sheet

**Truck Number: 4** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Found (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Miles Start | Miles Finish | Post Trip | Salt (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| JT | 5/4 | ✓ | Cleaning out Pipe Ends | O Ø | O Ø | O Ø | ✓ | | 81439 | 81447 | | O Ø |
| JT | 5/5 | ✓ | " Sweepingzion | O Ø | O Ø | O Ø | ✓ | | 81447 | 81468 | | O O |
| JT | 5/13 | ✓ | Hertzler Rd 2x | O Ø | O Ø | O Ø | | | 81468 | | | O O |
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# Londonderry Township Equipment Check In/Out Inspection Sheet

**Truck Number: 5** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Found (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Miles Start | Miles Finish | Post Trip | Salt (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JT | 5/6 | ✓ | Cockers Turning | O O | O O | O O | ✓ | | 19073 | 19093 | | O O |
| MD | 5/12 | ✓ | SGCR / Hetrick Rd Swales | O O | O O | O O | ✓ | – | 19093 | 19128 | ✓ | O O |
| MD | 5/19 | ✓ | Zion / Lincoln Gutter work | O O | O O | O O | – | – | 19128 | 19158 | ✓ | O O |
| MD | 5/20 | ✓ | LLGR Gutters | O O | O O | O O | – | – | 19158 | 19200 | | O O |
| MD | 05/21 | ✓ | LGR | O O | O O | O O | ✓ | | 19200 | 19216 | | O O |
| | | | | O O | O O | O O | | | 19216 | 19218 | | O O |
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# Londonderry Township Equipment Check In/Out Inspection Sheet

**Equipment Number: #6 Loader** | **Month: June 2020** | **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Fnd (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Hours Start | Hours Finish | Post Trip | Salt (Y/N) | Plow (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MN | 3 | ✓ | Shop work | ~~Y~~ N | N ~~Y~~ | N ~~Y~~ | — | — | 1285.7 | | | N N | N N |
| JJ | 6 | ✓ | Sugartown Creek Rd | N N | N N | N N | | | 1288 | | | N N | N N |
| AG | 06-08 | ✓ | Support Patrol | ~~N~~ N | N ~~N~~ | N ~~N~~ | — | | 1288.8 | | | N ~~N~~ | ~~N N~~ |
| MN | 6-16 | — | Shop load Truck | N ~~Y~~ | N ~~Y~~ | N ~~Y~~ | | 4347 | — | 1292.3 | | N N | N N |
| MN | 18 | ✓ | Shop | ~~Y~~ N | N ~~Y~~ | N ~~Y~~ | | | 1292.6 | | | N N | N N |
| MN | 30 | ✓ | OFFICE | ~~Y~~ N | N ~~Y~~ | N ~~Y~~ | — | — | 1293.8 | 1294.3 | | N N | N N |
| | | | | N N | N N | N N | | | | | | N N | N N |
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07-01 1294.5

# Londonderry Township Equipment Check In/Out Inspection Sheet

**Truck Number: 6** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Found (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Miles Start | Miles Finish | Post Trip | Salt (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AB | 05-04 | ✓ | Emico Rd | 0 0 | 0 0 | 0 0 | ✓ | | 1521 | 1538 | ✓ | 0 0 |
| AB | 05-05 | ✓ | Zion Rd | 0 0 | 0 0 | 0 0 | ✓ | 28.48 | 1538 | 1547 | | 0 0 |
| AB | 05-12 | ✓ | S Hentzler Rd | 0 0 | 0 0 | 0 0 | ✓ | | 1547 | 1559 | ✓ | 0 0 |
| AB | 05-13 | ✓ | " " | 0 0 | 0 0 | 0 0 | ✓ | | 1559 | 1585.7 | ✓ | 0 0 |
| AB | 05-19 | ✓ | LGR | 0 0 | 0 0 | 0 0 | ✓ | | 1585.7 | 1594 | ✓ | 0 0 |
| AB | 05-20 | ✓ | LGR | 0 0 | 0 0 | 0 0 | ✓ | | 1594.0 | 1605.4 | | 0 0 |
| AB | 05-21 | ✓ | LGR | 0 0 | 0 0 | 0 0 | ✓ | | 1605.4 | 1615.7 | | 0 0 |
| AB | 05-22 | ✓ | LGR | 0 0 | 0 0 | 0 0 | ✓ | | 1615.7 | 1664.8 | | 0 0 |
| AB | 05-28 | ✓ | MJR | 0 0 | 0 0 | 0 0 | ✓ | | 1664.8 | 1690.9 | ✓ | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
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| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
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| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |
| | | | | 0 0 | 0 0 | 0 0 | | | | | | 0 0 |

# Londonderry Township Equipment Check In/Out Inspection Sheet

**Equipment Number: #10 Tractor** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Fnd (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Hours Start | Hours Finish | Post Trip | Mow (Y/N) | Broc (Y/ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MN | 5-4 | ✓ | SCR - Newberry | O O | O O | O O | ✓ | ✓ | 3099.9 | 3101.1 | ✓ | O O | |
| ~~[illegible]~~ | ~~[illegible]~~ | ✓ | | O O | O O | O O | | | ~~[illegible]~~ | ~~[illegible]~~ | ✓ | ~~O O~~ | ~~O~~ |
| JT | 5-6 | ✓ | ~~[illegible]~~ Brush | O O | O O | O O | ✓ | ✓ | 3101.1 | | | O O | O |
| AB | 05-07 | ✓ | Boom Mower | O O | O O | O O | ✓ | 24.5 | 3107 | 3114 | | O O | O |
| AB | 05-08 | ✓ | " " | O O | O O | O O | ✓ | | 3114 | 3119 | | O O | O |
| JT | 5/13 | ✓ | " " | O O | O O | O O | ✓ | | 3119 | 3120.5 | | O O | O |
| JT | 5/14 | ✓ | " " | O O | O O | O O | ✓ | | 3120.5 | 3129 | | O O | O |
| JT | 5/15 | ✓ | " " | O O | O O | O O | 3129 | | | 3129 | | O O | O |
| JT | 5/17 | ✓ | " " | O O | O O | O O | | | | | | O O | O |
| AB | 05-18 | ✓ | " " | O O | O O | O O | ✓ | | 3129 | | | O O | O |
| JT | 22 | ✓ | " " | O O | O O | O O | ✓ | 27.16 | 3132 | 3136.1 | | O O | O |
| MN | 27 | ✓ | Boom Mow Middletown | O O | O O | O O | | | 3136.3 | 3141.3 | | O O | O |
| AB | 05-28 | ✓ | BGOW Dream Park | O O | O O | O O | ✓ | 27.47 | 3141.2 | 3146.5 | | O O | O |
| | | | | O O | O O | O O | | | | | | O O | O |
| | | | | O O | O O | O O | | | | | | O O | O |
| | | | | O O | O O | O O | | | | | | O O | O |
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# Londonderry Township Equipment Check In/Out Inspection Sheet

**Truck Number: 40** **Month: May 2020** **Washing Sheet on Back Side**

| Name | Date | Pre Trip | Destination/Route | SLF Insp (Y/N) | SLF Found (Y/N) | kill/ rept (Y/N) | Oil | Re-Fuel | Miles Start | Miles Finish | Post Trip | Salt (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MN | 5-1-20 | ✓ | Swarta TWP | O O | O O | O O | — | — | 73703 | 73755 | ✓ | O O |
| MN | 5-4-20 | ✓ | RD ✓ Area 1 pt of 2 | O O | O O | O O | ✓ | 18.24 | 73755 | 73792 | ✓ | O O |
| MN | 5-6-20 | ✓ | Tool shed | O O | O O | O O | — | — | 73792 | 73824 | | O O |
| MN | 5-8-20 | ✓ | Colflower hose. | O O | O O | O O | — | — | 73824 | 73855 | | O O |
| MN | 5-11-20 | ✓ | RD ✓ Area 1 pt of 2 | O O | O O | O O | ✓ | — | 73855 | 73891 | ✓ | O O |
| MN | 5-13-20 | ✓ | MSR + Parks | O O | O O | O O | — | — | 73891 | 73928 | ✓ | O O |
| MN | 5-14-20 | ✓ | MTR | O O | O O | O O | — | — | 73928 | | | O O |
| AB | 05-21 | ✓ | LGR | O O | O O | O O | ✓ | | 73988 | | | O O |
| MN | 5-22 | - | LGR #45 | O O | O O | O O | — | — | 74009 | | | O O |
| CK | 5/29 | ✓ | Golf Course | O O | O O | O O | | | 74001 | 74052 | ✓ | O O |
| | | | | O O | O O | O O | | | | | | O O |
| | | | | O O | O O | O O | | | | | | O O |
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| | | | | O O | O O | O O | | | | | | O O |

## PUBLIC WORKS SNOW/SALT RECORDS

LONDONDERRY TOWNSHIP

HRG

### Snow Event Log 2017/2018

| Event # | Date | Driver | Truck | Time In | Time Out | Total Hrs | Miles | Tons/Salt |
|---|---|---|---|---|---|---|---|---|
| 1 | 1/7/2020 | Jeff | 4 | 3:45p | 11:30p | 7.75 | 94 | 20 |
| | | Matt | 5 | 2:00p | 11:30p | 9.5 | 110 | 30 |
| | | Andy | 6 | 2:30p | 11:30p | 9 | 144 | 15 |
| | | Sam | 24 | 7:30p | 11:30p | 4 | 19 | 2.5 |
| | | Ryan Schmi | Rental | 5:00p | 6:30p | 1.5 | | |
| | | Ryan Schmi | Rental | 8:00p | 11:30p | 2.5 | | |
| | | Ryan Schmi | Rental | 8:00p | 11:30p | 2.5 | | |
| | | | | | | **36.75** | **367** | **67.5** |
| | | | | | | | | |
| 1A | 1/8/2020 | Andy | 6 | 7:00a | 9:30a | 2.5 | 47 | 2 |
| | | JDRIII | 24 | 7:30a | 8:30a | 1 | 7 | 0.5 |
| | | | | | | **3.5** | **54** | **2.5** |
| | | | | | | | | |
| 1B | 1/9/2020 | Matt | 5 | 5:30a | 7:00a | 1.5 | 26 | 0.5 |
| | | Andy | 6 | 5:30a | 7:30a | 2 | 35 | 2 |
| | | JDRIII | 24 | 6:30a | 7:30a | 1 | 19 | 0 |
| | | | | | | **4.5** | **80** | **2.5** |
| | | | | | | | | |
| 2 | 1/18/2020 | Jim Conrad | 5 | | | 5.75 | 92 | 30 |
| | | Andy | 6 | | | 5.75 | 105 | 30 |
| | | Jeff | 4 | | | 6.25 | 81 | 40 |
| | | Ryan Schmi | Rental | 9:00a | 11:00a | 2 | | 4 |
| | | Ryan Schmi | Rental | 3:00p | 5:30p | 2.5 | | |
| | | Ryan Schmi | Driver | 10:15a | 12:15a | 2 | 41 | 4 |
| | | Ryan Schmi | Driver | 3:30p | 5:30p | 2 | | |
| | | | | | | **26.25** | **319** | **104** |

## Appendix G MCM #6 (Figure 5)

### Public Works Leaf Cleaning Record

**MCM #6: PW Leaf Cleaning Record**

**PUBLIC WORKS LEAF CLEANING RECORD**

LONDONDERRY TOWNSHIP HRG Herbert, Rowland & Grubic, Inc. Engineering & Related Services

| Date | Road Vacuumed | Leaves/Debris Dumped | |
|---|---|---|---|
| 11/13/2019 | S Geyers Church Rd | Shemus | |
| " | Stephiania Dr | " | |
| " | Carol Cir | " | |
| " | Cola Rd | " | |
| " | Newberry Rd | " | |
| 12/26/2019 | Stephania Dr | Zeager's | S Geyers Church Rd to 200' west |
| " | Miller Rd | " | at Landvater Rd |
| " | Oakview Cir | " | |
| " | Newberry Rd | " | |
| " | Whitman Ln | " | Epler Rd to Locust Grove Rd |
| " | Locust Grove Rd | " | |
| " | Landvater Rd | " | |
| " | Kaylor Rd | " | |
| 1/2/2020 | Foxianna Rd | " | #2462 |
| " | Locust Grove Rd | " | |
| " | S Geyers Church Rd | " | |
| " | Epler Rd | " | |
| " | S Hertzler Rd | " | |
| " | Sunset Dr | " | |
| " | Stipe Rd | " | |