

**WYNN ASSOCIATES, INC.**  
***MUNICIPAL ENGINEERING SERVICES***

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September 23, 2021

Krista Brown  
Environmental Protection Compliance Specialist  
Clean Water Program  
PA Department of Environmental Protection  
Southeast Regional Office  
2 E. Main Street  
Norristown, PA 19401

Subject: MS4 Annual Report  
NPDES Permit No. PA1130506  
Solebury Township, Bucks County

Dear Ms. Brown,

Enclosed are two copies of the Annual Municipal Separate Storm Sewer System (MS4) Status Report for Solebury Township.

If you have any questions, please do not hesitate to contact me.

Very Truly Yours



Curtis J. Genner, Jr., P.E.  
Township Engineer

Cc: Dennis Carney, Township Manager (via email)  
Michele Blood, Assistant Manager/Finance Director/Treasurer (via email)  
Catherine Cataldi, Secretary Dept. of Administration (via email)



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

FOR THE PERIOD JULY 1, 2020 TO JUNE 30, 2021

GENERAL INFORMATION					
Permittee Name:	Solebury Township		NPDES Permit No.:	PAI 130506	
Mailing Address:	3092 Sungan Road		Effective Date:	10/1/2018	
City, State, Zip:	Solebury, PA 18963		Expiration Date:	9/30/2023	
MS4 Contact Person:	Curtis J. Genner, Jr.		Renewal Due Date:	4/3/2023	
Title:	Township Engineer		Municipality:	Solebury Township	
Phone:	215-536-7336		County:	Bucks	
Email:	cgenner@wynn-associates.com				
Co-Permittees (if applicable):					
Appendix(ces) that permittee is subject to (select all that apply):					
<input type="checkbox"/> Appendix A <input type="checkbox"/> Appendix B <input type="checkbox"/> Appendix C <input type="checkbox"/> Appendix D <input type="checkbox"/> Appendix E <input type="checkbox"/> Appendix F					
WATER QUALITY INFORMATION					
Are there any discharges to waters within the Chesapeake Bay Watershed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Identify all surface waters that receive stormwater discharges from the permittee's MS4 and provide the requested information (see instructions).					
Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s)	TMDL?	WLA?
Paunacussing Creek	HQ-CWF, MF	No			
Lahaska Creek	TSF, MF	No			
Rabbit Run	TSF, MF	No			
Aquetong Creek	HQ-CWF, MF	No			
Unnamed Tributary to Delaware River (Primrose Creeek)	TSF, MF	Yes	Siltation	No	No
Delaware River		Yes	Mercury	No	No

### GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

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

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

MCM	Entity Responsible	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	Solebury Township	Dennis Carney, Manager	215-297-5656
#2 Public Involvement/Participation	Solebury Township	Dennis Carney, Manager	215-297-5656
#3 Illicit Discharge Detection and Elimination (IDD&E)	Solebury Township	Curtis J. Genner, Jr., Engineer	215-536-7336
#4 Construction Site Storm Water Runoff Control	Solebury Township	Curtis J. Genner, Jr., Engineer	215-536-7336
#5 Post-Construction Storm Water Management in New Development and Redevelopment	Solebury Township	Curtis J. Genner, Jr., Engineer	215-536-7336
#6 Pollution Prevention / Good Housekeeping	Solebury Township	Dennis Carney, Manager	215-297-5656

### 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: 6/18/2018 Were updates made? ☒ Yes ☐ No

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

To provide stormwater related information at the Township Building to residents, builders and developers. Utilize the website and newsletters to distribute educational material to residents and businesses. Participate with the various local watershed organizations to provide educational information and programs.

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:

Continue with plans and goals from the prior reporting period. Maintain stormwater related posters at the Township Administrative offices. Continue public participation with restoration work at Aquetong Spring Creek Park.

#### 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: 6/11/2018 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: Completed Were updates made? ☒ Yes ☐ No  
periodically throughout each year.

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

If Yes, what MS4-related material does it contain?

#### Stormwater Management

Polluted Runoff: Nonpoint Source Pollution EPA Watersheds: This webpage is offered to educate residents about stormwater regulations, potential water pollution or flooding as a result of our local activities in the watershed. Solebury Township operates a Municipal Stormwater System (MSS) that is permitted by the Pennsylvania Department of Environmental Protection (PA DEP). This Permit requires that the Township:

- Continue public education and outreach activities
- Notify and solicit public input and involvement regarding management of the stormwater system
- Monitor, test and eliminate illicit discharges from outfalls (stormwater exiting pipes into the waterways) in the system
- Control construction site stormwater runoff through enforcement of ordinances
- Ensure that all post-construction stormwater improvements in new or re-developed areas are built as designed and are operated and maintained properly
- Implement a pollution prevention program for municipal operations

Nearly all of our Township newsletters have included an article about stormwater in the last five years or more as part of the PA DEP MSS Permit "public education" process. Township and development construction activities (land developments and subdivisions) are monitored by the Township Engineer.

In 2003, many municipalities in Pennsylvania were required to obtain a National Pollution Discharge Elimination System (NPDES) permit to discharge storm runoff from the municipality owned storm sewer system (Learn more about NPDES on the United States Environmental Protection Agency webpage). Solebury Township received their NPDES-MS4 permit in 2004. Since that time, Solebury has complied with the requirements of the permit, which include tasks such as:

- Enact a new Stormwater Management Ordinance (Ordinance No, 2011-06)
- Inspect every stormwater outfall that discharges to the local streams and creeks for signs of pollution
- Encourage the public to participate in stormwater related activities
- Provide educational materials to the public and business owners
- Review construction plans and permits for stormwater related concerns
- File an annual report with the Pennsylvania Department of Environmental Protection (PADEP) documenting the permit related activities that occurred during the year.

This past fall, regulated Pennsylvania municipalities were required to submit applications for a new NPDES-MS4 permit. Solebury's application is currently under review by the PADEP.

For additional information, visit the EPA Water Homepage and the EPA Stormwater Homepage. Another valuable resource is the The Bucks County Conservation District website.

#### What is Stormwater and why is it so important?

Stormwater runoff is generated when precipitation from rain and snow melt events flow over land and impervious surfaces and does not infiltrate into the ground. The runoff from streets, lawns, farms and construction and industrial sites picks up fertilizers, dirt, chemicals, pesticides, oil, grease and many other pollutants and discharges it into our streams and rivers. This untreated discharge is detrimental to our water quality as it can adversely affect our drinking water supply and the environment. In Solebury Township, polluted stormwater could contaminate the Aquetong, Cuttalossa, Paucussing Creek or Primrose Creek Watersheds.

Many Best Management Practices (BMPs), such as detention or infiltration basins, are already in place to help keep our waters clean. The Environmental Protection Agency (EPA) website is a good place to visit for stormwater information and regulations:

- Stormwater Basic Information
- PA EPA Stormwater Management Program
- Polluted Runoff: Nonpoint Source Pollution
- EPA Water Pollution Prevention and Control
- EPA Watersheds

#### What does the Township do to regulate stormwater?

The Township enforces Stormwater Ordinance No. 2011-06. Contact the Township to review a copy of this Ordinance.

Solebury Township regulates stormwater management through a permit that is obtained from the Pennsylvania Department of Environmental Protection (PA DEP) through the National Pollution and Discharge Elimination System Phase II (NPDES)/ Municipals Separate Storm Sewer System (MS4). This is a federal requirement from the United States Environmental Protection Agency (USEPA) that is administered by the PA DEP.

The Township also requires a Stormwater Management Plan Review if the stormwater management project is not part of a formal Land Development.

#### How Can Residents Help?

There are many ways you can help the Township with its stormwater program and participate in activities and programs that will keep pollutants, chemicals, trash, and other waste products out of our waterways. Please read Solution to Pollution from the EPA.

Residents can help by watching for:

- Sediment leaving a construction site via stormwater runoff
- Spills (chemical, gas, oil)
- Illegal dumping activity into streams or storm sewers (PLEASE CALL 911 FIRST)
- Dry weather flows from outfall pipes into streams (at least 72 hours after a rain storm)

Residents may be the first to recognize "illicit" discharges dumping into storm sewers or coming out of from storm sewer outfalls. If you see an "illicit" discharge please report it by calling the Township office at 215-297-5656 between 8 a.m. and 4 p.m. weekdays, or email us. Call 911 during non-business hours. Also, take photos if possible.

For more information regarding residential stormwater, please review The Homeowner's Guide to Stormwater pamphlet and an accompanying webinar, titled "A Homeowner's Guide to Stormwater" provided courtesy of Penn State.

#### Stormwater Management Documents

- Meadows - the New Standard
- Word of the Day: Imperviousness
- Trees: Good for You
- All Water is Somebody's Source Water
- BCCD Rain Garden Pamphlet
- Canines for Clean Creeks
- Clean Water BMPS - Auto Service Businesses
- Clean Water BMPS - Restaurants and Food Services
- Clean Water Maintain Your BMPS
- Clean Water Maintain Your BMPS Erosion Sediment Control
- Clean Water Swimming Pool Guidelines
- Grasscycling
- Love Your Stormwater
- Maintain Your BMPS for Construction Industry
- PA Stormwater Management Manual Rain Gardens
- Raingarden Brochure
- Raingarden Manual
- Solution to Pollution
- The Influence of Construction Activities
- Tips for Septic System Owners
- What the Construction Industry Needs to Know About Stormwater
- When it Rains it Drains

- Erosion & Sedimentation Control, Grading and/or Stormwater Management Permit Application - Residential
- Erosion & Sedimentation Control, Grading and/or Stormwater Management Permit Application - Commercial

#### Clean Water and the Business Community

Solebury Township encourages our business community to practice Best Management Practices (BMPs). The National Menu of Stormwater Best Management Practices can be viewed here. The documents below provide valuable information for our business community:

- Clean Water BMPS Auto Service Businesses
- Clean Water BMPs Restaurants and Food Services

Contractors, please be sure you are in compliance with State mandated stormwater regulations by reading these publications:

- What the Construction Industry Needs to Know About Stormwater
- The Influence of Construction Activities
- Clean Water Maintain Your BMPs Erosion Sediment Control
- Maintain Your BMPS fo Construction Industry

Please read and download the educational information provided in the Stormwater Management documentation.

#### Things You and Your Community Can Do to Protect Water Resources

- Maintain open, forested floodplains - Filling floodplains shortchanges the filtering power of natural areas and increases flooding elsewhere. It is also illegal.
- Plant trees and maintain streamside buffers - Streamside trees and native vegetation help filter stormwater runoff and help hold streambank soils in place. The DEP recently enacted a 75' buffer along streams to enhance water quality and reduce stormwater runoff. Delaware Riverkeeper.org
- Maintain a naturally vegetated edge between creeks and pastures or cultivated fields - A naturally vegetated stream buffer will filter out excess fertilizers and pesticides from adjacent farm fields.
- Promote clustering where new development is likely - Clustered developments require less pavement for roads and sidewalks and retain more of the overall parcel as open space.
- Disconnect your downspout from the street drain and Plant a Rain Garden - Rainwater from your roof is just as damaging to creeks and streams as runoff from a parking lot. Let your yard help filter out impurities and infiltrate stormwater back into your aquifer. If you don't have street drains, be certain stormwater coming through your downspouts is directed onto your own property and not into the road, road ditch, or a neighbor's property. Consider disconnecting your downspouts and installing rain barrels instead. They can provide water for your gardens. Please stop by the township building for ideas or consult the Rain Garden publications and visit the rain garden blog at the Perkiomen Watershed Conservancy site. The Bucks County Conservation District supports the construction of rain gardens and puts out this BCCD Rain Garden Pamphlet.
- Reduce your use of fertilizers, herbicides and pesticides - Follow directions for weed killers and pesticides very carefully, or consider discontinuing their use. Much of the chemicals and fertilizers you apply in the spring flow directly into the local creeks and seep into ground waters because the grass is not ready to absorb it. Set your mower height at 3 inches and use a mulching mower to create a healthy, organic lawn. Fertilize only in the fall. Consider Grasscycling.
- Never, ever, dump household substances or used oil into a storm drain - Bring used oil to certified recyclers.
- Convert large yards or public spaces from mown grass to meadows - The typical suburban lawn is nearly as impervious as a parking lot! Native meadow grasses infiltrate stormwater better and provide critical habitat for grassland birds. Consider converting a portion of your lawn into a meadows with paths through it to observe the wildlife.
- Pick up after your pets and keep livestock out of streams - Pet and animal wastes carry many harmful bacteria and possible diseases. They make creeks less amenable to native critters and require expensive water treatment for human use. Studies by the Center for Watershed Protection have found that a significant portion of fecal coliform bacteria in residential stormwater originates from canine waste.
- Keep paved surfaces to a minimum - Reduce impervious surfaces. Patios and parking spaces can be created with attractive pervious materials that allow stormwater infiltration to the soils below.
- Maintain Your Swimming Pool

Additional items include the following:

2020 MS4 Status Report  
Solebury Township NPDES Permit  
PADEP Stormwater video  
Floodplain and Other Information.

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:  
Educational information was provided to residents, contractors and developers at the Municipal Building as well as thru the Environmental Advisory Council and Watershed Associations, Newsletters and Aquetong Spring Advisory Committee.
5. Identify specific plans for the publication of stormwater materials for the upcoming year:  
Continue use of website and newsletters. Distribute educational information to Solebury Elementary School.

**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).

Township distributes pamphlets and brochures in the entrance hallway; and periodically displays posters. Township Newsletters include stormwater related articles and educational information. The Township maintains an information board at the rain garden constructed at the Municipal Building to provide public information on use of rain gardens. Copies of the Newsletters are included on the website.

**MCM #1 Comments:**

The Solebury Township Board of Supervisors formed the Aquetong Spring Advisory Committee (ASAC) to recommend the best use of existing buildings, new improvements and passive recreational opportunities for the reclaimed pond and dam area at Aquetong Spring. The five-member committee includes one representative each from the Aquetong Watershed Association, the Parks and Recreation Board and the Environmental Advisory Committee, and two additional township residents. The committee is continually monitoring improvements to the creek environment during this project. Latest report, "Fall 2020 Ecological Monitoring Event in Aquetong Creek" dated March 12, 2021 prepared by Princeton-Hydro, is included on the website. Minutes from the virtual meetings held by the ASAC are included on the website and identify the multiple stormwater and stream enhancement activities at the Aquetong Spring Park; and resident participation.

**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: 6/11/2018 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:

<b>Ordinance / SOP / Plan Name</b>	<b>Date of Public Notice</b>	<b>Date of Public Hearing</b>	<b>Date Enacted or Submitted to DEP</b>

**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:

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.

Local watershed groups report activities to the Board of Supervisors at least quarterly. The EAC advises local governmental agencies, including the Planning Commission, Parks & Recreation Board and elected officials, on matters dealing with protection, conservation, management, promotion, and use of natural resources, including air, land and water resources, located within the Township. Aquetong Spring Advisory Committee hold monthly zoom meetings to advise and update residents on the progress of improvements to the Aquetong Creek and Park property.

3. Report activities in which members of the public assisted or participated in the meetings and in the implementation of the SWMP, including education activities or efforts such as cleanups, monitoring, storm drain stenciling, or others.

Public input/participation is sought at public meetings for all stormwater related improvements (such as with development plans, Township construction projects, and Aquetong Creek Restoration Project), via the website and within the Township Newsletter. Information regarding the various watershed groups including the Paunacussing Watershed Association, Aquetong Watershed Association, Cuttaloosa Creek and Coppernose Creek Watersheds Association, Pidcock Creek Watershed Association, and Primrose Watershed Association was included on the Township website and announced at various Board of Supervisors public meetings. Opportunities to volunteer include working to educate landowners about good watershed management practices, monitoring water quality within the various watersheds, and tree planting (such as at Aquetong Spring Park). Volunteer opportunities can be found in the Township Newsletter and on the Township website. Additionally, the Aquetong Spring Advisory Committee has been working to recommend the best use of existing buildings, new improvements and passive recreational opportunities for the reclaimed pond and dam area. PA Fish and Boat Commission is monitoring the stocked (native caught) brook trout health and growth in the Aquetong Creek. Aquetong Creek summer water temperature (below the dam) was averaging 80 degrees before dam removal and riparian restoration activities. Latest monitoring determined the water temperature to be 55 degrees.

**MCM #2 Comments:**

**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: 5/15/2020 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): 5/14/2019

3. Total No. of Outfalls in MS4: 178 Total No. of Outfalls Mapped: 178

4. Total No. of Observation Points: 79 Total No. of Observation Points Mapped: 79

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): 5/14/2019

**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? 0
2. Indicate the percentage of all outfalls screened in the past five years. 100%
3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: 0%
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: Ordinance #2011-06 adopted on 5/19/2011
2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) with respect to authorized non-stormwater discharges? ☐ Yes ☒ No  
If Yes to #2 and the ordinance or SOP has not been submitted to DEP previously, attach the ordinance or SOP.

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

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

Violation Date	Nature of Violation	Responsible Party	Enforcement Taken

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

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

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

1. Was IDD&E-related information distributed to public employees, businesses, and the general public during the reporting period? ☒ Yes ☐ No

If Yes, what was distributed? Refer to links and publications included in MCM #1, BMP #3.

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:**

BMP #3.1. The outfall/observation point mapping was completely redone in May 2019 following a clear explanation of requirements by DEP.

**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: Ordinance #2011-06 adopted on 5/19/2011

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

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

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

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

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

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

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

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

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

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

**BMP #8: Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public to the permittee regarding local construction activities.**

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

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

**MCM #4 Comments:**

**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: Ordinance #2011-06 adopted on 5/19/2011
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: Ordinance #2011-06 adopted on 5/19/2011
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 list of 54 stormwater management facilities (includes facilities constructed before 2003)			o ' "	o ' "			
2				o ' "	o ' "			
3				o ' "	o ' "			
4				o ' "	o ' "			
5				o ' "	o ' "			
6				o ' "	o ' "			
7				o ' "	o ' "			
8				o ' "	o ' "			
9				o ' "	o ' "			
10				o ' "	o ' "			
11				o ' "	o ' "			
12				o ' "	o ' "			
13				o ' "	o ' "			
14				o ' "	o ' "			
15				o ' "	o ' "			



16				o ' "	o ' "			
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**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:**

Site construction activities including structural PCSW BMPs are inspected by the Township Engineer and BCCD; and must be certified by the owner/developer's engineer. Inspection reports are completed and retained in the project file.

**MCM #6 – POLLUTION PREVENTION / GOOD HOUSEKEEPING**

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

1. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? ☒ Yes ☐ No
2. When was the inventory last reviewed? 6/21/2021
3. When was it last updated? 6/21/2021

**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: 6/21/2021

**BMP #3: Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from operations to the regulated small MS4. All relevant employees and contractors shall receive training.**

1. Have you developed an employee training program? ☐ Yes ☒ No
2. Date of last review or update to training program: N/A Date of latest training: May 2021

3. Training topics covered:

Inspection, maintenance, and repair of storm water collection system structures was reviewed with the Public Works staff.

Maintenance of road side swales, curblines/gutters, and culvert/driveway pipes to minimize runoff impacts was reviewed with the Public Works staff.

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

Dennis Carney, Public Works Director

5. Names of training attendees:

Public Works Department : Joe Dicken, Geoff Schurer, Justin Kling, Andrew Coffey.

**MCM #6 Comments:**

**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)	5/14/2019	<input type="checkbox"/>	
Source Inventory		<input type="checkbox"/>	
Investigation of Suspected Sources		<input type="checkbox"/>	
Ordinance/SOP for Controlling Animal Wastes		<input type="checkbox"/>	

**PCM Comments:**

**POLLUTANT REDUCTION PLANS (PRPs) AND TMDL PLANS**

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

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

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

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

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

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: N/A

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

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

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

If Yes to #4, describe the plan modifications.

5. Summary of progress achieved during reporting period.

6. Anticipated activities for next reporting period.

**PRP/TMDL Plan Comments:**

Solebury Township does not have a PRP or TMDL Plan requirement.

### NEW BMPs FOR PRP/TMDL PLAN IMPLEMENTATION

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

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed or Implemented	Planning Area?	Ch. 102?	Annual Sediment Load Reduction (lbs/yr)
						O 1 "	O 1 "		<input type="checkbox"/>	<input type="checkbox"/>	
						O 1 "	O 1 "		<input type="checkbox"/>	<input type="checkbox"/>	
						O 1 "	O 1 "		<input type="checkbox"/>	<input type="checkbox"/>	
						O 1 "	O 1 "		<input type="checkbox"/>	<input type="checkbox"/>	
						O 1 "	O 1 "		<input type="checkbox"/>	<input type="checkbox"/>	

### BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION

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

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed	Annual Sediment Load Reduction (lbs/yr)	Date of Latest Inspection	Satisfactory?
						O 1 "	O 1 "				<input type="checkbox"/>
						O 1 "	O 1 "				<input type="checkbox"/>
						O 1 "	O 1 "				<input type="checkbox"/>
						O 1 "	O 1 "				<input type="checkbox"/>
						O 1 "	O 1 "				<input type="checkbox"/>
						O 1 "	O 1 "				<input type="checkbox"/>

## CERTIFICATION

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

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

Dennis H. Carney, Township Manager

Name of Responsible Official

215-297-5656

Telephone No.

  
Signature

9-17-21

Date

Solebury Township Outfall Database

Outfall ID	Latitude	Longitude	Subwatershed	Waterway	Date Checked	Land Use	Outfall Location	Outfall Material	Outfall Shape	Number of Outfalls	Outfall Dimension	Outfall Damage
1	N40° 22'55.25"	W74° 57'53.47"	Primrose Creek	Primrose Creek	6/5/2019	Residential/Agricultural	Swale			Single		None
2	N40° 22'47.97"	W74° 57'34.94"	Delaware River	Delaware River	6/5/2019	Residential/Agricultural	Swale			Single		None
3	N40° 22'13.44"	W74° 57'57.36"	Delaware River	Unnamed Tributary to Delaware River	6/5/2019	Village Residential	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
4	N40° 22'19.71"	W74° 57'57.98"	Delaware River	Unnamed Tributary to Delaware River	6/5/2019	Village Residential	Swale	Earthen	Parabolic	Single	2" deep x 6" wide	None
5	N40° 22'01.70"	W74° 58'08.81"	Delaware River	Unnamed Tributary to Delaware River	6/5/2019	Residential Development	Swale	Rip-rap	Parabolic	Single	6" deep x 18" wide	None
6	N40° 21'57.04"	W74° 58'40.59"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential Development	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
7	N40° 22' 00.59"	W74° 58' 58.76"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 42" wide	None
8	N40° 21' 57.28"	W74° 59' 00.53"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 42" wide	None
9	N40° 21' 54.52"	W74° 59' 02.40"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 9" wide	None
10	N40° 21' 52.59"	W74° 59' 02.77"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 15" wide	None
11	N40° 21' 49.89"	W74° 58' 59.58"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential Development	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
12	N40° 21' 47.07"	W74° 58' 56.92"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential Development	Swale	Earthen	Parabolic	Single	1" deep x 9" wide	None
13	N40° 21' 43.17"	W74° 58' 55.50"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential Development	Swale	Earthen	Parabolic	Single	4" deep x 12" wide	None
14	N40° 21' 41.75"	W74° 58' 54.13"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential Development	Swale	Rip-rap	Parabolic	Single	4" deep x 12" wide	None
16	N40° 21' 36.98"	W74° 58' 46.91"	Aquetong Creek	Aquetong Creek	6/5/2019	Residential Development	Swale	Earthen	Parabolic	Single	6" deep x 24" wide	None
17	N40° 21' 32.38"	W74° 58' 47.92"	Aquetong Creek	Aquetong Creek	6/6/2019	Residential Development	Closed Pipe	RCP	Circular	Single	24"	None
18	N40° 21' 38.62"	W74° 58' 33.82"	Aquetong Creek	Aquetong Creek	6/6/2019	Residential Development	Swale	Earthen	Parabolic	Single	6" deep x 18" wide	None
19	N40° 21' 34.91"	W74° 58' 35.80"	Aquetong Creek	Aquetong Creek	6/6/2019	Residential Development	Swale	Earthen	Parabolic	Single	2" deep x 15" wide	None
20	N40° 21'52.19"	W74° 58'08.48"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/6/2019	Residential Development	Swale	Earthen	Parabolic	Single	1" deep x 10" wide	None
21	N40° 22'51.12"	W75° 04'26.19"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	6/6/2019	Residential/Agricultural	Closed Pipe	RCP	Circular	Single	24"	None
22	N40° 22' 26.42"	W75° 02' 33.49"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 30" wide	None
23	N40° 22' 23.36"	W75° 02' 46.26"	Paunnacussing Creek	Paunnacussing Creek	6/6/2019	Residential/Agricultural	Closed Pipe	HDPE	Circular	Single	18"	None
24	N40° 22'12.33"	W75° 02'56.66"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
25	N40° 21' 57.98"	W75° 03' 10.90"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	7" wide x 30" deep	None
26	N40° 22' 12.19"	W75° 02' 13.68"	Cuttalossa Creek	Cuttalossa Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Trapezoid	Single	6" deep, 9" bottom width, 42" top width	None
27	N40° 22' 12.20"	W75° 02'02.93"	Cuttalossa Creek	Unnamed Tributary to Cuttalossa Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 15" wide	None
28	N40° 21' 42.96"	W75° 02' 00.59"	Aquetong Creek	Aquetong Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 32" wide	None
29	N40° 21' 26.23"	W75° 02' 28.48"	Lahaska Creek	Lahaska Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 48" wide	None
30	N40° 21' 19.62"	W75° 02' 02.98"	Lahaska Creek	Lahaska Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 8" wide	None
31	N40° 22' 05.25"	W75° 00' 50.36"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 12" wide	None
32	N40° 21' 42.93"	W75° 01' 02.69"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
33	N40° 21' 42.59"	W75° 01' 13.62"	Aquetong Creek	Aquetong Creek	6/6/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	6" deep x 18" wide	None
34	N40° 20'53.27"	W75° 01'26.95"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/6/2019	Small Lot Residential	Swale	Earthen	Parabolic	Single	2" deep x 15" wide	None
35	N40° 20'59.31"	W75° 01'02.38"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Trapezoid	Single	15" deep x 28" bottom width, 40" top width	None
36	N40° 22'12.95"	W74° 57'57.31"	Delaware River	Unnamed Tributary to Delaware River	6/5/2019	Village Residential	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
37	N40° 21' 03.64"	W74° 57' 49.67"	Dark Hollow Run	Dark Hollow Run	6/7/2019	Village Residential	Swale	Earthen	Parabolic	Single	2" deep x 8" wide	None
38	N40° 21' 02.37"	W74° 57' 46.70"	Dark Hollow Run	Dark Hollow Run	6/7/2019	Village Residential	Swale	Earthen	Parabolic	Single	1" deep x 11" wide	None
39	N40° 22'37.19"	W75° 04'42.62"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 12" wide	None
40	N40° 21' 15.38"	W74° 58' 58.87"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
41	N40° 20' 52.60"	W74° 59' 18.11"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 15" wide	None
42	N40° 20' 41.73"	W74° 59' 32.57"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 15" wide	None
43	N40° 23'07.39"	W75° 03'50.01"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Village Residential	Swale	Earthen	Parabolic	Single	1" deep x 6" wide	None
44	N40° 22' 45.22"	W75° 03' 43.18"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	18" deep x 48" wide	None
45	N40° 22'04.22"	W75° 03'04.79"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 12" wide	None
46	N40° 22'03.88"	W75° 03'04.90"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 12" wide	None
47	N40° 21'12.27"	W75° 02'25.31"	Lahaska Creek	Lahaska Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 24" wide	None
48	N40° 21' 31.51"	W75° 01' 44.25"	Aquetong Creek	Aquetong Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 12" wide	None
49	N40° 21'46.47"	W75° 01'38.07"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
50	N40° 21'46.47"	W75° 01'38.16"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
51	N40° 21'56.85"	W75° 01'38.43"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 15" wide	None
52	N40° 21'57.16"	W75° 01'38.49"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 24" wide	None
53	N40° 21'57.53"	W75° 01'38.47"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 12" wide	None
54	N40° 21'01.80"	W75° 00'53.87"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	6" deep x 15" wide	None
55	N40° 21' 13.22"	W75° 00' 54.58"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 15" wide	None
56	N40° 21'19.03"	W75° 00'36.74"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
57	N40° 21'07.78"	W75° 00'00.88"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	10" deep x 24" wide	None
58	N40° 21'08.54"	W74° 59'59.49"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 28" wide	None
59	N40° 21'16.60"	W74° 59'37.60"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	5" deep x 30" wide	None
60	N40° 21'17.23"	W74° 59'35.14"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 36" wide	None
61	N40° 21' 17.79"	W74° 58' 49.69"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 9" wide	None
62	N40° 21' 17.41"	W74° 58' 49.81"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 15" wide	None
63	N40° 21' 12.12"	W74° 58' 57.83"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 18" wide	None
64	N40° 21' 11.65"	W74° 58' 57.99"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 72" wide	None
66	N40° 21' 03.88"	W74° 59' 41.58"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 48" wide	None
67	N40° 21' 04.09"	W74° 59' 41.07"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 12" wide	None
68	N40° 21' 03.49"	W74° 59' 40.75"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
69	N40° 20' 58.47"	W74° 59' 46.56"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 36" wide	None
70	N40° 21' 11.44"	W74° 59' 33.94"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 14" wide	None
71	N40° 22' 46.10"	W74° 58' 00.02"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 18" wide	None
72	N40° 23' 42.16"	W75° 00' 04.98"			6/24/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	8" deep x 120" wide	None
73	N40° 24'20.74"	W75° 00'06.33"	Delaware River	Unnamed Tributary to Delaware River	7/1/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	6" deep x 30" wide	None
74	N40° 23' 43.78"	W75° 02' 24.40"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 24" wide	None
75	N40° 23' 01.85"	W75° 02' 59.48"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	2" deep x 60" wide	None

Solebury Township Outfall Database

Outfall ID	Latitude	Longitude	Subwatershed	Waterway	Date Checked	Land Use	Outfall Location	Outfall Material	Outfall Shape	Number of Outfalls	Outfall Dimension	Outfall Damage
76	N40° 22' 49.66"	W75° 03' 01.65"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 60" wide	None
77	N40° 22'37.90"	W75° 02'44.86"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
78	N40° 22' 38.97"	W75° 04' 45.28"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
79	N40° 22'17.96"	W75° 02'12.42"	Cuttalossa Creek	Unnamed Tributary to Cuttalossa Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 6" wide	None
80	N40° 20'52.56"	W75° 01'32.39"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/6/2019	Small Lot Residential	Swale	Rip-rap	Trapezoid	Single	30" deep, 36" bottom width, 84" top width	None
81	N40° 20'58.14"	W75° 01'10.85"	Aquetong Creek	Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 24" wide	None
82	N40° 20' 58.24"	W74° 58' 48.29"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	12" deep x 48" wide	None
83	N40° 20'51.69"	W74° 58'42.99"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	6" deep x 48" wide	None
84	N40° 20'18.76"	W75° 00'45.12"	Pidcock Creek	Unnamed Tributary to Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	6" deep x 30" wide	None
85	N40° 19' 30.35"	W74° 59' 35.41"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	18" deep x 54" wide	None
86	N40° 21' 17.14"	W74° 58' 49.13"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	12" deep x 48" wide	None
87	N40° 19' 56.72"	W74° 59' 37.59"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 24" wide	None
88	N40° 19' 41.57"	W74° 59' 19.00"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 30" wide	None
89	N40° 19' 41.24"	W74° 59' 18.52"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 16" wide	None
90	N40° 19' 46.32"	W74° 59' 08.10"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" wide x 36" deep	None
91	N40° 19' 41.44"	W74° 59' 18.27"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" wide x 24" deep	None
92	N40° 19' 41.66"	W74° 59' 18.74"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	14" wide x 42" deep	None
93	N40° 19' 49.48"	W74° 58' 59.48"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 12" wide	None
94	N40° 19' 50.12"	W74° 59' 00.39"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
95	N40° 19' 50.42"	W74° 59' 00.15"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
96	N40° 19' 49.93"	W74° 58' 59.82"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
97	N40° 19' 41.48"	W74° 58' 44.07"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 18" wide	None
98	N40° 19' 39.86"	W74° 58' 37.56"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 15" wide	None
99	N40° 19' 40.32"	W74° 58' 37.46"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
100	N40° 19' 40.21"	W74° 58' 37.27"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 15" wide	None
101	N40° 19' 37.53"	W74° 58' 39.55"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 10" wide	None
102	N40° 19' 37.83"	W74° 58' 39.82"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 6" wide	None
103	N40° 19' 37.71"	W74° 58' 40.08"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
104	N40° 19' 37.50"	W74° 58' 39.86"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 42" wide	None
105	N40° 19' 36.31"	W74° 58' 38.58"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 16" wide	None
106	N40° 19' 26.72"	W74° 58' 35.50"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 54" wide	None
107	N40° 19'20.64"	W74° 58'18.98"	Pidcock Creek	Unnamed Tributary to Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 30" wide	None
108	N40° 19'29.93"	W74° 58'16.50"	Pidcock Creek	Unnamed Tributary to Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 12" wide	None
109	N40° 19'30.22"	W74° 58'16.43"	Pidcock Creek	Unnamed Tributary to Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 8" wide	None
110	N40° 19' 33.63"	W74° 57' 59.32"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
111	N40° 19' 33.11"	W74° 57' 59.15"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 15" wide	None
112	N40° 19' 33.67"	W74° 57' 58.95"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 24" wide	None
113	N40° 19' 33.19"	W74° 57' 58.70"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 15" wide	None
114	N40° 19' 34.95"	W74° 57' 35.71"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 12" wide	None
115	N40° 19' 37.64"	W74° 57' 28.55"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
116	N40° 19' 37.71"	W74° 57' 27.96"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
117	N40° 19' 50.35"	W74° 57' 31.48"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
118	N40° 19' 50.17"	W74° 57' 30.85"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 9" wide	None
119	N40° 19' 50.44"	W74° 57' 30.75"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 12" wide	None
120	N40° 19' 50.59"	W74° 57' 31.34"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 8" wide	None
121	N40° 20' 00.41"	W74° 57' 18.58"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	6" deep x 30" wide	None
122	N40° 20' 00.10"	W74° 57' 18.36"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 9" wide	None
123	N40° 20' 00.50"	W74° 57' 18.12"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 15" wide	None
124	N40° 20' 00.26"	W74° 57' 18.02"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
125	N40° 19' 45.28"	W74° 56' 56.45"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 24" wide	None
126	N40° 19' 48.98"	W74° 56' 54.00"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 30" wide	None
127	N40° 20' 43.54"	W74° 57' 49.93"	Dark Hollow Run	Dark Hollow Run	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 10" wide	None
128	N40° 20' 43.15"	W74° 57' 49.77"	Dark Hollow Run	Dark Hollow Run	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
129	N40° 20' 43.62"	W74° 57' 49.22"	Dark Hollow Run	Dark Hollow Run	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
130	N40° 20' 43.96"	W74° 57' 49.40"	Dark Hollow Run	Dark Hollow Run	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
131	N40° 20' 56.20"	W74° 57' 49.60"	Dark Hollow Run	Dark Hollow Run	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 27" wide	None
132	N40° 20' 55.86"	W74° 57' 50.08"	Dark Hollow Run	Dark Hollow Run	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 18" wide	None
133	N40° 20' 56.28"	W74° 57' 50.20"	Dark Hollow Run	Dark Hollow Run	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 10" wide	None
134	N40° 20' 56.65"	W74° 57' 49.69"	Dark Hollow Run	Dark Hollow Run	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 6" wide	None
135	N40° 20'50.46"	W74° 57'28.23"	Dark Hollow Run	Unnammed Tributary to Dark Hollow Run	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 30" wide	None
136	N40° 21'25.58"	W74° 59'07.24"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/28/2019	Residential Development/Conservation	Swale	Rip-rap	Parabolic	Single	8" deep x 36" wide	None
137	N40° 21'25.48"	W74° 59'07.77"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/28/2019	Residential Development/Conservation	Swale	Rip-rap	Parabolic	Single	6" deep x 30" wide	None
138	N40° 21' 32.71"	W74° 59' 11.38"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential Development/Conservation	Swale	Earthen	Parabolic	Single	5" deep x 24" wide	None
139	N40° 21'21.75"	W74° 59'27.35"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential Development/Conservation	Swale	Earthen	Parabolic	Single	3" deep x 24" wide	None
140	N40° 21' 39.66"	W74° 59' 13.96"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential Development	Swale	Earthen	Parabolic	Single	8" deep x 30" wide	None
141	N40° 21'13.95"	W74° 59'49.70"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential Development/Conservation	Swale	Earthen	Parabolic	Single	3" deep x 36" wide	None
142	N40° 20' 46.10"	W74° 59' 58.82"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 15" wide	None
143	N40° 20' 45.90"	W74° 59' 58.26"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 28" wide	None
144	N40° 20' 45.57"	W74° 59' 58.54"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
145	N40° 20' 45.76"	W74° 59' 58.96"	Aquetong Creek	Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
146	N40° 20'40.89"	W75° 00'02.88"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 20" wide	None
147	N40° 20'41.16"	W75° 00'03.81"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 8" wide	None
148	N40° 20'15.14"	W75° 00'49.87"	Pidcock Creek	Unnamed Tributary to Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 15" wide	None
149	N40° 20'28.32"	W75° 00'32.66"	Pidcock Creek	Unnammed Tributary to Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	10" deep x 42" wide	None



Solebury Township Outfall Database

Outfall ID	Latitude	Longitude	Subwatershed	Waterway	Date Checked	Land Use	Outfall Location	Outfall Material	Outfall Shape	Number of Outfalls	Outfall Dimension	Outfall Damage
150	N40° 20'03.59"	W75° 00'30.58"	Pidcock Creek	Unnamed Tributary to Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 24" wide	None
151	N40° 19'56.37"	W75° 00'18.83"	Pidcock Creek	Unnamed Tributary to Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 42" wide	None
152	N40° 19' 50.45"	W75° 00' 04.12"	Pidcock Creek	Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 8" wide	None
153	N40° 19'43.33"	W74° 59'56.99"	Pidcock Creek	Unnamed Tributary to Pidcock Creek	6/28/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 72" wide	None
154	N40° 19' 37.49"	W74° 57' 27.99"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 24" wide	None
155	N40° 19' 37.43"	W74° 57' 28.36"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
156	N40° 19' 37.79"	W74° 57' 13.83"	Pidcock Creek	Pidcock Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 12" wide	None
157	N40° 22' 56.56"	W75° 03' 17.84"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Village Residential	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
158	N40° 22' 56.16"	W75° 03' 17.45"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Village Residential	Swale	Earthen	Parabolic	Single	7" deep x 24" wide	None
159	N40° 22' 35.62"	W75° 03' 39.67"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 8" wide	None
160	N40° 22' 35.34"	W75° 03' 39.37"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 8" wide	None
161	N40° 22' 56.68"	W75° 03' 17.62"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Village Residential	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
162	N40° 22' 56.37"	W75° 03' 17.23"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Village Residential	Swale	Earthen	Parabolic	Single	1" deep x 15" wide	None
163	N40° 22'26.90"	W75° 02'28.03"	Paunnacussing Creek	Unnamed Tributary to Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 42" wide	None
164	N40° 22'54.07"	W75° 03'13.12"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 10" wide	None
165	N40° 22' 52.89"	W75° 04' 30.03"	Paunnacussing Creek	Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
166	N40° 22' 53.15"	W75° 04' 29.69"	Paunnacussing Creek	Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 9" wide	None
167	N40° 22' 52.85"	W75° 04' 29.35"	Paunnacussing Creek	Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
168	N40° 22' 52.54"	W75° 04' 29.74"	Paunnacussing Creek	Paunnacussing Creek	6/6/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 8" wide	None
169	N40° 22'27.16"	W75° 03'27.16"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
170	N40° 22'27.43"	W75° 03'36.77"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 6" wide	None
172	N40° 23' 29.62"	W75° 01' 39.06"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	8" deep x 30" wide	None
173	N40° 23'09.75"	W75° 01'37.01"	Cuttalossa Creek	Unnamed Tributary to Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 14" wide	None
174	N40° 23'09.52"	W75° 01'37.13"	Cuttalossa Creek	Unnamed Tributary to Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 9" wide	None
175	N40° 22' 59.22"	W75° 01' 24.18"	Cuttalossa Creek	Cuttalossa Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 12" wide	None
176	N40° 22' 58.92"	W75° 01' 24.57"	Cuttalossa Creek	Cuttalossa Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 12" wide	None
177	N40° 23'10.17"	W75° 01'37.43"	Cuttalossa Creek	Unnamed Tributary to Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 52" wide	None
178	N40° 23'09.86"	W75° 01'37.67"	Cuttalossa Creek	Unnamed Tributary to Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	3" deep x 24" wide	None
179	N40° 22' 59.00"	W75° 01' 23.91"	Cuttalossa Creek	Cuttalossa Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 30" wide	None
180	N40° 22' 58.62"	W75° 01' 24.31"	Cuttalossa Creek	Cuttalossa Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 8" wide	None
181	N40° 22'29.11"	W75° 00'51.49"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	9" deep x 14" wide	None
182	N40° 22' 09.10"	W74° 59' 59.07"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 30" wide	None
183	N40° 22' 08.86"	W74° 59' 59.69"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 9" wide	None
184	N40° 22' 08.61"	W74° 59' 59.29"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	6" deep x 30" wide	None
185	N40° 22' 08.86"	W74° 59' 58.73"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 9" wide	None
186	N40° 21' 54.65"	W75° 00' 01.28"	Aquetong Creek	Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
187	N40° 21' 54.59"	W75° 00' 00.79"	Aquetong Creek	Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 18" wide	None
188	N40° 22' 09.35"	W74° 59' 41.45"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential Development/Conservation	Swale	Earthen	Parabolic	Single	2" deep x 22" wide	None
189	N40° 22' 09.35"	W74° 59' 40.71"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential Development/Conservation	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
190	N40° 22' 08.17"	W74° 59' 36.59"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential Development/Conservation	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
191	N40° 22' 08.56"	W74° 59' 36.69"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential Development/Conservation	Swale	Earthen	Parabolic	Single	2" deep x 14" wide	None
192	N40° 22' 08.41"	W74° 59' 36.21"	Aquetong Creek	Aquetong Creek	6/24/2019	Residential Development/Conservation	Swale	Earthen	Parabolic	Single	2" deep x 12" wide	None
193	N40° 21' 27.01"	W75° 00' 47.63"	Aquetong Creek	Unnamed Tributary to Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 9" wide	None
194	N40° 21' 54.30"	W75° 00' 01.02"	Aquetong Creek	Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 12" wide	None
195	N40° 21' 54.42"	W75° 00' 01.42"	Aquetong Creek	Aquetong Creek	6/7/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep x 15" wide	None
196	N40° 23' 34.78"	W75° 03' 26.40"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 12" wide	None
197	N40° 23' 34.41"	W75° 03' 26.59"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 10" wide	None
198	N40° 23' 35.04"	W75° 03' 25.93"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 4" wide	None
199	N40° 23' 34.56"	W75° 03' 26.10"	Paunnacussing Creek	Paunnacussing Creek	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 20" wide	None
200	N40° 24' 07.61"	W75° 02' 58.73"	Paunnacussing Creek	Paunnacussing Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	15" deep x 40" wide	None
201	N40° 24' 15.67"	W75° 02' 40.47"	Paunnacussing Creek	Paunnacussing Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
202	N40° 24' 15.30"	W75° 02' 40.23"	Paunnacussing Creek	Paunnacussing Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
203	N40° 24' 15.80"	W75° 02' 40.15"	Paunnacussing Creek	Paunnacussing Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
204	N40° 24' 15.47"	W75° 02' 39.87"	Paunnacussing Creek	Paunnacussing Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
205	N40° 24' 27.50"	W75° 02' 29.88"	Paunnacussing Creek	Paunnacussing Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 15" wide	None
206	N40° 24'26.22"	W75° 02'20.70"	Delaware River	Unnamed Tributary to Delaware River	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 4" wide	None
207	N40° 23' 26.93"	W74° 59' 41.33"	Delaware River	Delaware River	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 18" wide	None
208	N40° 22' 46.57"	W74° 59' 29.69"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 10" wide	None
209	N40° 22' 46.68"	W74° 59' 30.39"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
210	N40° 22' 46.30"	W74° 59' 30.47"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 18" wide	None
211	N40° 22' 46.27"	W74° 59' 29.99"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 18" wide	None
212	N40° 22'58.91"	W75° 00'21.99"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Village Residential	Swale	Concrete	Trapezoid	Single	12" deep, 30" bottom width, 30" top width	None
213	N40° 22' 39.69"	W75° 00' 01.19"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep, 15" wide	None
214	N40° 22' 39.86"	W75° 00' 00.81"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep, 18" wide	None
215	N40° 22' 39.49"	W75° 00' 00.84"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep, 8" wide	None
216	N40° 22' 39.71"	W75° 00' 00.45"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep, 9" wide	None
217	N40° 22' 43.00"	W74° 59' 07.95"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep, 9" wide	None
218	N40° 23' 14.63"	W74° 59' 02.66"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	5" deep, 24" wide	None
219	N40° 22'57.05"	W74° 59'03.11"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep, 15" wide	None
220	N40° 22'57.39"	W74° 59'02.71"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep, 15" wide	None
221	N40° 23'13.30"	W74° 59'56.57"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep, 10" wide	None
222	N40° 23'13.31"	W74° 59'57.05"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep, 18" wide	None
223	N40° 23' 12.16"	W74° 59' 38.81"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	6" deep, 36" wide	None
224	N40° 23' 00.63"	W74° 59' 56.77"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	9" deep x 18" wide	None

Solebury Township Outfall Database

Outfall ID	Latitude	Longitude	Subwatershed	Waterway	Date Checked	Land Use	Outfall Location	Outfall Material	Outfall Shape	Number of Outfalls	Outfall Dimension	Outfall Damage
225	N40° 22'55.25"	W74° 59'52.86"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 7" wide	None
226	N40° 22'55.12"	W74° 59'52.19"	Primrose Creek	Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	2" deep x 9" wide	None
227	N40° 23' 34.61"	W75° 01' 42.91"	Primrose Creek	Primrose Creek	7/1/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	5" deep x 30" wide	None
228	N40° 24' 08.34"	W75° 01' 19.70"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 9" wide	None
229	N40° 24' 08.41"	W75° 01' 19.30"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 8" wide	None
230	N40° 24' 08.75"	W75° 01' 19.12"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 12" wide	None
231	N40° 24' 09.00"	W75° 01' 18.89"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Asphalt	Parabolic	Single	1" deep x 12" wide	None
232	N40° 24' 00.11"	W75° 01' 09.30"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Asphalt	Parabolic	Single	2" deep x 14" wide	None
233	N40° 23'15.38"	W75° 01'10.28"	Cuttalossa Creek	Unnamed Tributary to Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 9" wide	None
234	N40° 23'15.96"	W75° 01'11.09"	Cuttalossa Creek	Unnamed Tributary to Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	2" deep x 12" wide	None
235	N40° 23' 17.42"	W75° 01' 29.46"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 8" wide	None
236	N40° 23' 17.53"	W75° 01' 29.07"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 14" wide	None
237	N40° 23' 25.42"	W75° 01' 30.79"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 10" wide	None
238	N40° 23' 25.67"	W75° 01' 32.14"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 12" wide	None
239	N40° 23' 49.00"	W75° 01' 14.53"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
240	N40° 23' 49.02"	W75° 01' 13.85"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	9" deep x 42" wide	None
241	N40° 23' 25.70"	W75° 01' 31.16"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 15" wide	None
242	N40° 23' 52.00"	W75° 01' 09.98"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Rip-rap	Parabolic	Single	6" deep x 96" wide	None
243	N40° 23' 58.54"	W75° 01' 11.41"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 10" wide	None
244	N40° 24' 00.35"	W75° 01' 08.86"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Outdoor Recreational	Swale	Earthen	Parabolic	Single	2" deep x 20" wide	None
245	N40° 23' 47.76"	W75° 02' 15.80"	Cuttalossa Creek	Cuttalossa Creek	7/1/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	10" deep x 28" wide	None
246	N40° 23' 50.34"	W74° 59' 50.21"	Delaware River	Delaware River	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	15" deep x 96" wide	None
247	N40° 23' 56.45"	W74° 59' 39.64"	Delaware River	Delaware River	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	4" deep x 42" wide	None
248	N40° 24'08.72"	W74° 59'18.95"	Delaware River	Delaware River	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 18" wide	None
249	N40° 24'08.75"	W74° 59'19.45"	Delaware River	Delaware River	7/2/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 24" wide	None
250	N40° 23' 22.25"	W74° 58' 39.11"	Delaware River	Delaware River	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	8" deep x 30" wide	None
251	N40° 23' 24.60"	W74° 58' 37.38"	Delaware River	Delaware River	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	6" deep x 30" wide	None
252	N40° 23' 25.67"	W74° 58' 37.32"	Delaware River	Delaware River	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 12" wide	None
253	N40° 23'43.59"	W74° 58'14.68"	Delaware River	Delaware River	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 18" wide	None
254	N40° 23'43.82"	W74° 58'14.99"	Delaware River	Delaware River	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 20" wide	None
255	N40° 23'35.98"	W74° 58'05.43"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	3" deep x 9" wide	None
256	N40° 23'25.90"	W74° 57'54.78"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	1" deep x 18" wide	None
257	N40° 23'24.70"	W74° 57'54.07"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Residential/Agricultural	Swale	Earthen	Parabolic	Single	2" deep x 9" wide	None
258	N40° 23'10.91"	W74° 57'45.79"	Primrose Creek	Unnamed Tributary to Primrose Creek	6/24/2019	Residential/Agricultural	Swale			Single		None
259	N40° 21'46.44"	W75° 03'22.27"			6/6/2019		Swale	Earthen	Parabolic	Single	1" deep x 8" wide	None
260	N40° 21'21.54"	W74° 59'23.07"			6/28/2019		Swale	Earthen	Parabolic	Single	3" deep x 30" wide	None