

# Commonwealth of Pennsylvania

## MS4 Annual Report

July 1, 2018 - June 30, 2019

Prepared For



Gettysburg Borough, Adams County





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

FOR THE PERIOD JULY 1, 2018 TO JUNE 30, 2019

GENERAL INFORMATION					
Permittee Name:	Gettysburg Borough Adams County	NPDES Permit No.:	PAG133733		
Mailing Address:	59 East High Street	Effective Date:	March 16, 2018		
City, State, Zip:	Gettysburg, PA 17325	Expiration Date:	March 15, 2023		
MS4 Contact Person:	Charles Gable	Renewal Due Date:	N/A		
Title:	Borough Manager	Municipality:	Gettysburg Borough		
Phone:	717-334-1160	County:	Adams		
Email:	cgable@gettysburgpa.gov				
Co-Permittees (if applicable): N/A					
Appendix(ces) that permittee is subject to (select all that apply):					
<input type="checkbox"/> Appendix A <input type="checkbox"/> Appendix B <input type="checkbox"/> Appendix C <input checked="" type="checkbox"/> Appendix D <input checked="" type="checkbox"/> Appendix E <input type="checkbox"/> Appendix F					
WATER QUALITY INFORMATION					
Are there any discharges to waters within the Chesapeake Bay Watershed? <input checked="" type="checkbox"/> Yes <input 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?
Stevens Run	WWF, MF	Yes	Nutrients, Siltation	No	No
Unnamed Tributary to Rock Creek	WWF, MF	Yes	Nutrients, Siltation	No	No
Rock Creek	WWF, MF	Yes	Nutrients	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	Gettysburg Borough	Charles Gable	717-334-1160
#2 Public Involvement/Participation	Gettysburg Borough	Charles Gable	717-334-1160
#3 Illicit Discharge Detection and Elimination (IDD&E)	Gettysburg Borough	Charles Gable	717-334-1160
#4 Construction Site Storm Water Runoff Control	Relying on ACCD	Rusty Ryan	717-334-0636
#5 Post-Construction Storm Water Management in New Development and Redevelopment	Gettysburg Borough	Charles Gable	717-334-1160
#6 Pollution Prevention / Good Housekeeping	Gettysburg Borough	Charles Gable	717-334-1160

**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: September 2019      Were updates made?  Yes  No

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

As a new permittee, the Borough's goal was to educate the public on an overview of the MS4 program, stormwater, and what being an MS4 means to Borough residents. The Gettysburg Borough Storm Water Authority was also formed during the reporting period and numerous educational sessions were conducted to inform the public about the new stormwater fee that was implemented to aid in funding the Borough's MS4 program and pollutant reduction plan. The Borough planned to specially designate a section of the website to stormwater management. Also The borough planned to create an informative video through the use of Community Media.

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

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

The Borough will continue to publish stormwater related articles in the newsletter and add information to the website for public viewing. The Borough also holds monthly Storm Water Authority meetings which are open to the public and aired on television through Community Media.

**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: August 2019      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: September 2019      Were updates made?  Yes  No

3. Do you have a municipal website?  Yes  No (URL: <https://www.gettysburgpa.gov/>)

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

The website contains a page specifically for the Gettysburg Borough Storm Water Authority which contains stormwater and MS4-related material. The page includes MS4 program details, frequently asked questions, links to EPA and DEP's websites, as well as other MS4-related information.

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:  
Additional methods are described under BMP #4.
5. Identify specific plans for the publication of stormwater materials for the upcoming year:  
The Borough publishes a newsletter twice a year (Spring-Summer and Fall-Winter). The newsletters include at least one article on stormwater / MS4-related topics. The Borough plans to continue with the publication of the newsletters which are distributed to all Borough residents and businesses.

**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).

The Borough publishes video recordings of all meetings on the Borough's website. The Borough also has brochures and other educational related information available in the Borough office. In addition, the Borough created an informative video through the use of Community Media which is published on the Borough's website as well as youtube: <https://www.youtube.com/watch?v=NXBFqRKWmEU>

**MCM #1 Comments:**

N/A

**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: September 2019                      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:  
  
The ordinance was advertised in the Gettysburg Times consistent with PA municipal advertising requirements. The ordinance was formally adopted at a Borough Council meeting.
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
Ordinance No. 1461-19 (Illicit Discharge Ordinance)			June 10, 2019

**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:      March 25, 2019

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.

On July 9, 2019 Borough Representatives met with the county watershed specialist and two members of the Watershed Alliance of Adams County (WAAC) along with a representative from Gettysburg College to discuss the importance of stream bank plantings and to begin discussion on employing plantings along a portion of Stephen's Run.

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.

A presentation was given at the March 25, 2019 meeting which provided an overview of the MS4 program for Borough residents. The public had the opportunity to ask questions and provide feedback. A majority of the Borough's storm drains have been stenciled.

**MCM #2 Comments:**

Several public meetings were held to discuss the Borough's stormwater fee. Information regarding the MS4 program and stormwater management were discussed at these meetings. The meetings were held from March 2019 through June 2019. Meeting minutes as well as video recordings are available on the Borough's website.

**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: June 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):      September 2019

3. Total No. of Outfalls in MS4:      73      Total No. of Outfalls Mapped:      73

4. Total No. of Observation Points:      1      Total No. of Observation Points Mapped:      1

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): September 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. 0%

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: November 13, 2012

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? IDD&E information is included on the Borough's website and was discussed during public meetings.

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:**

**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: November 13, 2012

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:

N/A

**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: 0

**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: November 13, 2012
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: November 13, 2012
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				o ' "	o ' "			
2				o ' "	o ' "			
3				o ' "	o ' "			
4				o ' "	o ' "			
5				o ' "	o ' "			
6				o ' "	o ' "			
7				o ' "	o ' "			
8				o ' "	o ' "			
9				o ' "	o ' "			
10				o ' "	o ' "			
11				o ' "	o ' "			
12				o ' "	o ' "			
13				o ' "	o ' "			
14				o ' "	o ' "			
15				o ' "	o ' "			
16				o ' "	o ' "			

**BMP #5: Ensure that controls are installed that shall prevent or minimize water quality impacts. The permittee shall inspect all qualifying development or redevelopment projects during the construction phase to ensure proper installation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall be implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were not, installed properly).**

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

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

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

**MCM #5 Comments:**

The Borough has created a Storm Water Authority which will generate funds to hire professionals to complete this task. The Borough intends on completing this task in years 2 through 5. Bills were distributed in July 2019 and stormwater fees are starting to be collected.

**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? September 2019
3. When was it last updated? September 2019

**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: N/A

**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: \_\_\_\_\_ Date of latest training: \_\_\_\_\_

3. Training topics covered:
4. Name(s) of training presenter(s):
5. Names of training attendees:

**MCM #6 Comments:**

The Borough has created a Storm Water Authority which will generate funds to hire professionals to complete this task. The Borough intends on completing this task in years 2 through 5. Bills were distributed in July 2019 and stormwater fees are starting to be collected.

**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)		<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:**

N/A

**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 checked="" type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP	November 20, 2018	April 18, 2019	Chesapeake Bay, Stevens Run, Unnamed Tributary to Rock Creek, and Rock Creek
<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 checked="" type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP	59,518	57	656
<input type="checkbox"/> Combined PRP / TMDL Plan			

3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: April 30, 2024

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

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

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

If Yes to #4, describe the plan modifications.

5. Summary of progress achieved during reporting period.

The Borough completed BMP No. 1, BMP No. 2, and BMP No. 3 as outlined in the Combined Pollutant Reduction Plan during the reporting period. To date, a total TSS load reduction of 8,468 lbs/yr has been achieved based on the activities noted above.

6. Anticipated activities for next reporting period.

The Borough will continue to implement the proposed projects as outlined in the Combined PRP to address pollutant load requirements.

**PRP/TMDL Plan Comments:**

**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)
1	Gettysburg Inner Loop Segment A	N/A	-	170	L.F.	39°49'45"	77°14'19"	2018	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	7,630 lbs/yr
2	GARA Parking Lot Improvements	0.50	62	5,000	S.F.	39°49'24"	77°14'17"	2018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	295 lbs/yr
3	GARA Parking Lot D	0.61	74	460	S.F.	39°49'21"	77°14'21"	2018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	543 lbs/yr
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	

**BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION**

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

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

### 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).

Charles Gable, Borough Manager

Name of Responsible Official

717-334-1160 ext. 222

Telephone No.



Signature

17 September 2019

Date

# MCM #1 Appendix

- **MCM #1 Project Plan**
- **BMP 1.2 Attachments**
  - Target Audience List (August 2019)
- **BMP 1.3 Attachments**
  - Borough Newsletter Spring-Summer 2019.pdf
  - Borough Newsletter Fall-Winter 2018.pdf
  - Borough Newsletter Spring-Summer 2018.pdf
  - Borough Website
- **BMP 1.4 Attachments**
  - 'No Dumping' Stormwater Inlet Badge
  - Homeowners Guide to Stormwater BMP Maintenance

# MCM #1 Project Plan

- BMP 1.1

Description:

Develop, implement and maintain a written Public Education and Outreach Program.

Action Plan:

The Public Education and Outreach program plan will be reviewed annually, at a minimum, and revised when deemed necessary.

- BMP 1.2

Description:

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

Action Plan:

The Borough has identified residents, existing business owners, developers, contractors, school students, municipal employees, and officials as target audiences. Each educational activity completed as part of MS4 permit compliance will reach at least one of these audience groups that are specifically targeted.

- BMP 1.3

Description:

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

Action Plan:

(1) Municipal Mailings: Gettysburg Borough publishes a seasonal newsletter each Spring-Summer and Fall-Winter which includes at least one educational stormwater article in each issue. The newsletters are mailed to each resident and business and digitally posts copies to their website. The target audience group for this activity is Borough residents and businesses.

(2) Borough Website: The Borough's website contains a page for the Stormwater Authority which can be accessed from the 'Authorities, Boards, & Commissions (ABCs)' tab along the top of the web page. The website contains general stormwater information, stormwater-related frequently asked questions (FAQs), and quick links to the DEP and EPA stormwater websites. The website is accessible by all target audience groups.

- BMP 1.4

Description:

Distribute stormwater educational materials to target audiences.

Action Plan:

(1) Meetings: MS4 is a standing item on the Borough Engineer's monthly report which is reviewed at Council meetings. The target audience group is Borough residents, officials, and municipal employees.

(2) Stormwater Inlet Badges: Stormwater inlet badges with the message "No Dumping - Drains to Stream - Help Protect Our Water" inscribed on them have been installed on stormwater inlets throughout the Borough. The target audience group is Borough residents, existing business owners, developers, contractor, school students, municipal employees, and officials.

(3) Educational Materials: Educational materials are available in the lobby of the Borough office such as the "Homeowners Guide to Stormwater BMP Maintenance". The target audience group is Borough residents.

**Gettysburg Borough MS4 Target Audience List**

Gettysburg College 300 North Washington Street, Gettysburg, PA 17325 .....	717-337-6300
Gettysburg Area School District 900 Biglerville Road, Gettysburg, PA 17325 .....	717-334-6254
Lutheran Theological Seminary 61 Seminary Ridge, Gettysburg, PA 17325 .....	717-334-6286
Gettysburg Hospital 147 Gettys Street, Gettysburg, PA 17325 .....	717-334-2121
Spectra-kote Corporation 301 East Water Street, Gettysburg, PA 17325.....	717-334-3177
Gettysburg Borough 59 East High Street, Gettysburg, PA 17325 .....	717-334-1160
Dal-Tile Corporation 211 North 4 <sup>th</sup> Street, Gettysburg, PA 17325.....	717-334-1181



# Gettysburg

BOROUGH NEWSLETTER

Spring/Summer 2019

## **Borough Council**

### **Mayor:**

Theodore Streeter

### **First Ward:**

Wesley Heyser  
Patricia Lawson

### **Second Ward:**

Jacob Schindel  
Christopher Berger

### **Third Ward:**

John Lawver  
Charles Strauss

### **At-Large:**

Susan Naugle

### **Borough Manager**

Charles R. Gable

## **EMBRACING STORMWATER MANAGEMENT**

*A Message from Council President Susan Naugle*

It has been 46 years since the Clean Water Act was adopted and the U.S. still struggles to reach its main goal of swimmable and fishable waters. Pennsylvania still issues health advisories related to eating fish caught in some waterways. Clean water remains an important goal.

That brings us to the current focus on stormwater, MS4 requirements, and the Borough's efforts to make stormwater management a priority. What is MS4? It is short for Municipal Separate Storm Sewer System. Gettysburg is one of 1,059 small systems operating in the Commonwealth. The visible parts of our MS4 infrastructure are the inlets collecting stormwater from our streets and the drainage pipes that deposit that water into small local streams. What you don't see are miles of below-ground storm sewer pipes, some old and crumbling, some going under or through homes and buildings, and some causing damage to structures and streets. It is an expensive system to operate and will become more costly as we implement mandated MS4 requirements aimed at reducing pollutants flowing into local streams of the Chesapeake Bay Watershed. Those mandates begin with the U.S. Environmental Protection Agency; are passed to the Pa Department of Environmental Resources (DEP) and, from there, to local municipalities.

We have a Combined Pollutant Reduction Plan developed by C.S. Davidson, adopted by Borough Council and approved by DEP. The plan will guide Borough efforts to discharge less and cleaner stormwater into the watershed. You will hear a lot about impervious surfaces. Just remember the two main components: the rooftops that protect us and the transport system of roads, driveways, sidewalks and parking areas that move us from place to place. In a more urban area like the Borough, there are lots of impervious surfaces. A one-acre parking lot results in 16 times more run-off than from a one-acre meadow. That runoff picks up pollutants and, with heavy rains, greatly increases the volume of water scouring stream banks on its way to the Bay.

To assist the Borough to effectively manage stormwater and meet our pollution reduction goals, the Council approved the creation of an independent, five-member Gettysburg Borough Stormwater Authority (GBSWA). The GBSWA operates to administer, operate, and maintain our storm sewer system, and to establish fees necessary to manage the system. Did I mention how costly managing stormwater can be? GBSWA will create a fee schedule that will assess all property owners, whether they be government, commercial, residential, or non-profit, based on the impervious cover on each parcel of land. Fees will be used only to support and improve stormwater management. The GBSWA is looking to stagger the mailing of fee invoices, by borough wards, starting in July. More information will be available later this spring.

In addition to doing our part to assure clean water, the Borough's investment will bring other benefits, such as less severe flooding, a greener community with more trees and vegetation, and more rain recharging our groundwater. More information about GBSWA and our stormwater management plan can be found at [www.gettysburgpa.gov](http://www.gettysburgpa.gov).



### **Important**

### **Numbers:**

Borough 717-334-1160

Police Dept 717-334-1168

Emergency 911

After Hours

Non-Emergency

717-334-8101

Public Works 717-334-4666

GMA 717-334-6738

GARA 334-2028

## **You Are Invited . . . .**

**Borough Council Town Hall Meeting** – May 9 at 7 p.m. at the Gettysburg Fire Hall

**National Night Out 2019** – Aug. 6 on Breckenridge St. from 5 - 8 p.m. (rain date Aug. 7)

**Olde Getty Place Car Show** - Sept. 28 from 8 a.m. - 1:30 p.m. (Location TBD)

**A Gettysburg Christmas Festival** – Dec. 6, 7 and 8, Downtown and Steinwehr Avenue

***If anyone needs special accommodations when attending any borough meeting, please notify the Borough Secretary (334-1160 ext. 240) at least five (5) business days prior to attending the meeting.***

## Gettysburg to Host the 120<sup>th</sup> Annual Pennsylvania Municipal League (PML) Summit



The Pennsylvania Municipal League (PML) is affiliated with the National League of Cities. Its mission is to “*strengthen, empower, and advocate for effective local government.*” PML has elected to showcase Gettysburg Borough for its 120<sup>th</sup> summit, Oct. 3-6. Summit attendees are elected and appointed government officials – local, state and national, and other dignitaries of statewide and national prominence. While the programming for this year’s summit is not yet finalized, Pennsylvania governors, congressmen and senators have attended previous PML Summits, and will be invited to attend this year.

The theme of this year’s PML Summit is ***Walkable Communities***. Gettysburg is uniquely positioned to highlight this theme as the Borough is only 1.5 square miles in land mass and is in the process of implementing several multi-modal transportation projects (i.e. bike loop, hub and spoke parking, improved sidewalk safety features, sidewalk accessibility features, public transportation etc.). These multi-modal initiatives are augmented with economic development projects, like the beautification of Steinwehr Avenue, which included better lighting for safety, environmental improvements, public transit stops, bike path, etc., and the planned Main Street Gettysburg Baltimore Street Revitalization Project.

In coordination with the summit, “***The Long, Long, Long, Long Dinner Party***” (details yet to be announced) will be hosted by the Baltimore Street Committee. This fundraising event will celebrate the success of Gettysburg’s revitalization efforts for the community and for summit attendees, some of whom are influential in helping municipalities get grant funding for these types of economic development activities. It will be a fun community event.

As host of the summit, the Borough will receive a new playground at the Recreation Park (GARA) on Long Lane. The PML Playground Build at the Rec Park, funded by the PA Department of Conservation and Natural Resources will leave its mark for the next several decades. Borough staff, PML attendees, and volunteers will gather on Oct. 3 to remove old play structures, pour new footers, erect new ADA-accessible playground equipment, and install mulch. The playground will be ready for public use by mid-October.

Please join us for the playground build and to welcome the conferees and show your support for PML. It’s an opportunity to showcase all the great things happening in Gettysburg, and to champion the successes of our public-private partnerships in revitalizing Gettysburg and promoting economic development in the Borough.

## A Gettysburg Christmas Festival – 2019 *from Main Street Gettysburg*

December 1, 2018 was a magical day in Gettysburg, despite the rain, at the town’s first ***A Gettysburg Christmas Festival***. We promise 2019 will be even bigger and better!

The festival will be a three-day event – **Dec. 6, 7 and 8**. This year’s festival will include the Christmas Parade, First Friday, a movie festival, Breakfast with Santa, Greens Sale, Holiday Bazaar, Gingerbread Celebration, business specials and activities, our favorite holiday characters, food & craft vendors, music, and, new for 2019, A Winter Wonderland, entertainment stages, contests, a Spirits’ Tent, merchandise, and more!

With an expanded event planned for 2019, we are seeking volunteers and sponsors to help make this community-wide event a huge success for Gettysburg. Contact us at 717-337-3491 or by email at [adamik@mainstreetgettysburg.org](mailto:adamik@mainstreetgettysburg.org).



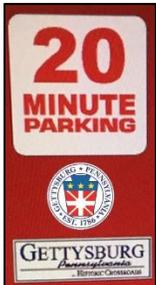
## KUDOS TO MAIN STREET GETTYSBURG!

Last month, Main Street Gettysburg (MSG) was awarded a **Keystone Main Street Designation**. This important designation means MSG will receive priority consideration for Department of Community and Economic Development programs, such as planning funds and grants for implementation and public space improvements. MSG will also receive free technical assistance over the next five years, and will be eligible for the Neighborhood Assistance Program to help attract more investment to our downtown. This is all great news as MSG and the Borough move forward with the Baltimore Street Economic Revitalization Plan.

## IMPROVED PARKING THROUGH PILOT PROGRAMS

The Parking Department continues to test new parking technologies to determine the most efficient, user-friendly and convenient way to manage parking. **WE WANT YOUR FEEDBACK ON WHAT WORKS AND DOESN'T!** Contact us at 717-334-1160 Ext. 241, or [cgable@gettysburgpa.gov](mailto:cgable@gettysburgpa.gov).

- **Local Privilege Permit (LPP)** allows a patron to pay \$35 a month to park at designated 12-hour, long-term meters between the hours of 6 a.m. and 2 p.m., 7 days a week. LPP meters will be marked with a special decal, resembling the Borough Flag. These metered spaces are also available to others who use coins to pay the meter.



- **Short-Term Parking for Quick Trips** allow patrons who need to make a quick trip to a downtown store or business to park for up to 20 minutes. These 20-minute meters will be marked in **RED** and will cost 50 cents for 20 minutes. (No grace time allowed!) We will test five meters, one each on Lincoln Square and the first blocks of Chambersburg, Carlisle, Baltimore, and York streets.

- **Smart Meters and KIOSKS** from several vendors are being tested in several metered areas. There are 65 smart meters on York Street, Chambersburg Street and West Lincoln Avenue. All accept both coins and credit card payments curbside. Seven new KIOSKS are being tested – three in the Racehorse Alley Parking Garage (RHA), three on Lincoln Square, and one in the Borough Municipal Lot on Middle Street. The rate in the Garage is 75 cents per hour, or \$10 for 24 hours. **NEW KIOSKS NOW REQUIRE YOUR LISENCE PLATE NUMBER!**



- **NEW KIOSKS in RHA Garage if paying by coin or dollar bills**, you will be asked if you are paying for parking or charging an electric vehicle. Enter your plate number and press the **GREEN BUTTON** to confirm. Deposit cash into the KIOSK. The display on the illuminated screen will show when your parking session will expire. Once finished depositing coins, press the **GREEN BUTTON** to confirm. A receipt confirming your transaction will print out. Keep it for your records.



- **KIOSK Payment in RHA Garage by Credit Card** follows the same instructions as for cash, but instead you insert your credit card for payment. There is a \$1 minimum charge to use a credit card. To add time, press the plus (+) button and watch the display screen. Time can be added in 20-minute increments or press the 24-hour button. Press the **GREEN BUTTON** to confirm. You will receive a receipt for your records.

- **KIOSK Payments on Lincoln Square and the East Middle Street parking lot** work similarly to those in RHA Garage. There is a 2-hour maximum parking time limit on these KIOSKS. They only accept coins or credit cards. There is a \$1 minimum charge for a credit card. Enter your license plate number and press the **GREEN BUTTON** to confirm. Deposit coins in the coin slot to register your time. Press the **GREEN BUTTON** to confirm. A receipt for your records will print. If paying by credit card, enter license plate number and press the **GREEN BUTTON** to confirm. Insert your credit card and remove per instructions on the display. Press the plus (+) button to add time. Press the **GREEN BUTTON** to confirm and take your receipt.



## TOWN HALL – MAY 9 at the GETTYSBURG FIRE HALL

Council members Wesley Heyser and Christopher Berger will host a town hall on May 9. The doors will open at 6:30 p.m. for an informal meet and greet with Gettysburg Borough's new Chief of Police, Rob Glenny.

The formal program will begin at 7 p.m., with an introduction of Chief Glenny, followed by a presentation by council members Heyser and Berger on infrastructure projects. The remainder of the evening will be dedicated to questions, comments and suggestions from the public. All Gettysburg Borough residents, property owners and other stakeholders are invited to attend.

**POLICE DEPARTMENT FULLY STAFFED** *From Mayor Ted Streeter*


For the first time in recent memory, the Gettysburg Police Department (GPD) has achieved its goal of being fully staffed. The addition of a patrol officer and a new chief of police completes a rebuilding of the department that has been three years in the making.

At this time in 2016, the GPD was immersed in two lawsuits, was understaffed and suffering from severe morale issues, most of which stemmed from an inadequate hiring process, specifically the inability to conduct a thorough background investigation of applicants. Fortunately, the council decided to contract out background investigations, and chose retired Chief Carl Segatti to do that work.

When Chief Joe Dougherty retired in 2018, Segatti took over as interim chief and acted as such until Chief Robert Glennly arrived. Interim Chief Segatti quickly earned the trust and confidence of the officers, the council, and the borough staff. He has contributed immensely to the rebuilding of the GPD and will be sorely missed as a professional, and as an individual.

When the GPD chiefs' position was advertised, 31 applications were received. Borough Manager Gable established a thorough screening process, beginning with the review of each application by a search committee comprised of career law enforcement professionals, representatives of Borough Council and the community, the Mayor, and Borough Manager. The committee ranked the candidates and offered eight candidates a phone interview with the committee. Four applicants were chosen for face-to-face interviews with Council, which made the final selection. Mr. Robert W. Glennly was chosen.

Rob is from Huntington, Pa. He's married with two school-aged children and has spent most of his law enforcement career in the State College area, but moved to Leadville, Colorado, a couple of years ago as Leadville's police chief. He met, talked to and rode with the GPD officers as a part of the hiring process. In addition to implementing his own ideas, Glennly will be charged with improving training, searching for and writing grants, enhancing community policing, and instilling other measures to enable the GPD to better serve the community.

We have made a lot of progress in three years, and look forward to more under the stewardship of Chief Robert Glennly.

**COP CORNER** *from Chief Glennly and Officers*

We would like to welcome our newest Officer, Bo Taylor, to the Police Department. Taylor is a U.S. Army veteran. He comes to us from the Garden City (Kansas) Police Department where he spent six years as an officer. Please welcome him to "the Most Famous Small Town in America" when you see him out and about.

The Department recently put two new Ford SUV police vehicles into service. The SUVs replaced two older sedans in the police fleet. The new vehicles display a more modern graphics package. These new vehicles are safer and more reliable for our officers to carry out their duties.

Unfortunately, the opioid epidemic is taking lives in and around Gettysburg. The police department believes Fentanyl to be the likely cause of death in many cases occurring in the borough. While Narcan can save the lives of people who overdose, it is not a full-proof solution and its effects are often short lived. When a person overdoses and dies, the coroner and police open an investigation into the death. Working with the DA's office, we try to build a case that will result in prosecution and conviction of the drug pusher(s) responsible for supplying the illegal drug(s). We cannot accomplish our mission without your help. Without the help of the public, the drug pusher will continue to sell fatal drugs to their victims. Victims will continue to die from overdoses and pushers often appear to have no regard or remorse. Anyone who witnesses or believes they have witnessed drug activity is urged to contact the police. For emergencies, dial 911. For other reports, call 717-334-8101

The police department would like to reinforce its continued initiative of community-oriented policing. As part of our mission, we strive to further our historic tradition of "THE POLICE ARE THE PUBLIC AND THE PUBLIC ARE THE POLICE". Please visit our Facebook page often as we are committed to being transparent in our operation and in keeping the public informed. We want our residents and businesses to know what their police officers are doing so we can serve them better.

**JOIN US** for  
**COFFEE WITH THE  
COPS**

every Tuesday at McDonalds  
on Steinwehr Avenue from  
9 to 10 a.m.

**PUBLIC WORKS – LOTS OF SPRING AND SUMMER PROJECTS!**

**Upcoming Projects**

**Street Sweeping** has begun. Along with the regular sweeping route, residents may see temporary “No Parking” signs along streets to be swept. As soon as the sweeping is complete the signs will be removed.

**Spring Brush Pick-up** will take place the week of May 20. Crews will go around town twice that week picking up **brush only**. Please don’t mix leaves and grass clippings with brush. Place brush to be picked up along curb (not in the street), or along alleys. If there are any questions regarding brush pickup, feel free to call the Public Works Department at 717-334-4666.

**Leaves and Grass** can be dropped off at the Public Works building on East Middle Street, or bagged for regular garbage pickup. See box to the right for more information.

**Cross Walks and Line Painting** will take place the end of May and beginning of June. Lines are usually painted at night when traffic is at a minimum.

**Fill at Gettysburg Area Recreation Authority (GARA)** Fill and grading will take place at the southeast portion of the park from May through September.

**Stratton and East Water Streets** improvements will begin in April through early May with curb and sidewalk repair and pavement patching. Milling and overlay of pavement will take place from May through July on the first block of South Stratton Street, North Stratton Street, a portion of Racehorse Alley, Columbia Alley, and first block of East Water Street.

**Barbehann Alley** from Water Street to Stevens Street will be milled and paved in the same time frame as East Water Street.

**King and Culp Streets** will see stormwater infrastructure replacement from April 29 to June 27 followed by curb ramp replacement from May 20 to July 18. Milling and restoration of street pavement will be completed from July 18 to August 12, to include the first block of Culp Street.

**STREET CONSTRUCTION MEETING NOTICE**  
**King and Culp Streets**  
Tuesday, April 23, 2019 at 7 p.m.  
in Borough Council Chambers  
**East and West Broadway**  
Tuesday, May 7, 2019 at 7 p.m.  
in Borough Council Chambers

**Waste Connections Brush/Leaf Pick-Up**  
Waste Connections will pick up grass clippings and leaves (**no twigs**) on regular trash pick-up days, **limited to a max of five 32-gal bags or one tote, plus two 32-gal bags per week, including your trash.**  
During the week of July 22, they will pick up brush tied in bundles in 3-foot lengths so that one person can throw it in the truck. They will not pick up longer lengths or large piles of brush not bundled together.

**East and West Broadway** work will begin in May with replacement of the water main by the Gettysburg Municipal Authority (see article on page 6) and upgrades of gas lines by Columbia Gas. From July into November, street work will take place. East Broadway, from Carlisle Street to Old Harrisburg Road, will be a total street restoration with new curbing. West Broadway from Carlisle Street to College Avenue (Mummasburg Road) will include island curbing and mill and overlay of the pavement.

**Wolf and Monument Alleys** will be repaved in August into September.

**IT’S SPRING! ARE YOU PLANNING TO DIG?**



If you are a homeowner and you are planning to dig on your own property to plant a tree, install a fence, etc., **PLAY IT SAFE!** Contact PA One Call. You can dial 811 or submit a request on line at [www.paonecall.org](http://www.paonecall.org). (Contractors must use 811.) The service is free! You need to provide at least three days’ notice so the location can be checked to see if any cables, electrical or gas lines, or water or sewer pipes might be affected. Hitting any of these can cause big, **AND EXPENSIVE**, problems or dangerous situations. **BE SAFE AND CALL PA ONE CALL BEFORE YOU DIG!**

**BROADWAY WATER MAIN IMPROVEMENTS - Spring 2019**

The Gettysburg Municipal Authority (GMA) will begin a water main replacement project starting at Old Harrisburg Road and continuing west 2,600 feet on East and West Broadway ending approximately 400 feet west of College Avenue. The project will consist of replacing the existing 4" cast iron main with a new 8" ductile iron main including the installation of new copper water services from the water main to the curb area. GMA also encourages property owners to examine and evaluate the integrity of their privately-owned water service from the curb to the house.

The project is proposed to begin in May and run through mid-July. **The project will involve street closures and detours during the hours of construction**, with the streets reopening daily. GMA regrets any inconvenience residents may experience during this period.

It's imperative that GMA maintain and improve our water system to avoid potential catastrophic consequences due to deteriorating water infrastructure. This improvement project is part of GMA's ongoing plan to replace older water mains to continue to provide our customers with high quality drinking water and adequate fire protection. If there are any questions or concerns, please call GMA's office at 717-334-6738 between the hours of 7 a.m. and 3:30 p.m.

**LODGING TAX – AN IMPORTANT SOURCE OF REVENUE**

Tourism is a significant economic generator for Adams County. The Borough plays host to a large share of those visitors but has only a few ways to get any direct financial benefit from their visit. The Lodging Tax (also called the Pillow Tax) is one way that visitors contribute directly to Borough coffers. Everyone who books a room at a hotel, Inn, B&B or other vacation rental in Adams County pays an additional 5% room tax. The tax is collected by the County and distributed, per state law, to include payment to the County, the tourist promotion agency (Destination Gettysburg) and to municipalities that fund a police department. The amount received by the municipality is based on the number of lodging rooms located in the municipality. Lodging Tax funds provided to municipalities, like Gettysburg, must be used for law enforcement activities. The County share must be used for economic development activities, historic preservation or local police needs.

Total County Taxable Room Rentals	\$ 51,326,287
Total Tax Collected (5%)	\$ 2,566,314
County Administration (4.5 % of tax collected)	\$ 99,313
Balance to Distribute	\$ 2,467,263
To Destination Gettysburg (75%)	\$ 1,850,447
To Adams County	\$ 308,407
Shared by Eligible Municipalities	\$ 308,407
<b>To Gettysburg Borough</b>	<b>\$ 161,269</b>

The Room Tax is an important source of income for the Borough. That is why our Borough staff have been working with the County, Destination Gettysburg and other recipient municipalities to identify all the lodging properties being offered for rent. That includes Airbnb, Vacation Rentals by Owner (VRBO) and other lodging rented through on-line sites, like Expedia.

**TIME TO VOLUNTEER!** The Borough's Code Enforcement Appeals Board is a quasi-judicial body that meets, as needed, to hear waiver requests and appeals of Regulated Rental Unit Ordinance, Property Maintenance Code and Stormwater Management enforcement actions. The Board consists of five members plus up to three alternates and is assisted in its deliberations by an attorney appointed by Council. Members are appointed for 5-year terms and serve without compensation.

We currently have two vacant seats on the Board. Members must be resident property owners of the Borough and cannot hold any other Borough office. Experience in property management, building construction, building trades (plumbing, electrical, etc.), inspection, or the reading and interpretation of regulations will be helpful, but not required.

You can find the volunteer application on the Borough website – click on *Forms and Documents* and look for *Borough Secretary*. Or, you can call Borough Secretary Sara Stull at 717-334-1160 ext. 240.

**KNOW YOUR RIGHTS WITH SATELLITE DISH INSTALLATION**

As more TV watchers choose to use satellite dishes, we are seeing more of these devices mounted on porches, roofs and sides of buildings. Dishes no longer in use or old mounting brackets remain when a new dish goes up because installers have no responsibility to remove them. The result can get unsightly and can be damaging to building structures.

The Borough does regulate the location, screening and color of satellite antennas within zoning districts. See Borough Code of Ordinances, Chapter 27, Section 1525(H), on the Borough’s website.

Under rules established by the Federal Communications Commission (FCC), the installer of a satellite dish (or other antennae) has no right to drill holes in your property, or otherwise cause permanent damage in order to install the dish. As a property owner, you can work with the installer to find a location that results in a good signal and does minimal damage, preferably at a location at the rear of the structure where it is less visible. This is especially critical if the property is in the Historic District. One option is to mount the dish on a pole in the back yard. It may be convenient for the installer to locate a dish on a porch roof, but there may be better options. If a signal is available at a higher location at the rear of the structure, it just may require a bigger ladder! As the property owner, it is your decision where and how the dish is mounted.

We suggest renters talk to the property owner about locating a dish on the property. Once a dish is no longer in use, it is no longer subject to FCC rules and may be removed.



Three dishes and four old dish brackets on one porch roof.

**STOP RECYCLING CONTAMINATION**

For years Gettysburg residents have enjoyed the ease of “single stream” recycling - unsorted materials in one bin. However, contamination of the recycling stream has become an increasing problem. There have been way too many greasy pizza boxes, half-filled peanut butter and spaghetti sauce jars, soiled newspaper, and dirty diapers. If your bin is contaminated, Waste Connections may not empty it and you could find the “OOPS” sticker. Avoid the sticker and:

Waste Connections may not empty it and you could find the “OOPS” sticker. Avoid the sticker and:

- Rinse/wash recyclables before recycling
- Discard any containers which cannot be cleaned
- Ensure your containers are free of excessive moisture to keep recycled paper and cardboard dry
- Don’t break glass
- Check the Borough’s website for a list of accepted materials

**Bottom line: items placed in the recycling bin must be empty, clean and dry.**

**OOPS!**  
**We didn’t take your recycling today because it contained one or more of the following items:**

<input type="checkbox"/> Trash Bags	<input type="checkbox"/> Diapers or Sanitary Products
<input type="checkbox"/> Food Waste	<input type="checkbox"/> Plastic Packaging
<input type="checkbox"/> Yard Waste	<input type="checkbox"/> Food Contaminated Items
<input type="checkbox"/> Animal Waste	<input type="checkbox"/> Other Non-Recyclable Items
<input type="checkbox"/> Styro-foam	

Please remove the non-recyclable items and we will pick up your recycling on the next trip. If you have any questions, please call 717-709-1700.  
**Thanks for your help!**

**CODE ENFORCEMENT CORNER – Top Three Violations for Spring**

If you ask our code enforcement officer what he expects to be our top three property maintenance code violations for spring and summer. He will say WEEDS! WEEDS! WEEDS! Here is the rule:

*All premises and exterior areas must be maintained free from weeds or plant growth (includes grass) in excess of **eight (8) inches**.*

The rule applies to weeds/grass on the property to the curb line. The Borough Public Works Department will be controlling weeds on the street side of the curb, but any help you are willing to give in front of your property will be appreciated.

**Address Number Reminder**

All properties are required to post address numbers on the front of buildings. Numbers must be visible from the opposite side of the public street. If the address also adjoins an alley, numbers must be posted so they are visible from the alley. These numbers can be critical for first responders in case of an emergency.

## BUS ROUTE EXTENDED TO NEW COUNTY BUILDING



Borough of Gettysburg  
59 E. High Street  
Gettysburg, PA 17325

PRSR STD  
ECRWSS  
U.S. POSTAGE  
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EDDM RETAIL

### TUESDAY – SATURDAY • MAY 5 – DECEMBER 8

1	A	2	3	4	5	1
Gettysburg Transit Center	525 Boyds School Rd	Gettysburg Hospital	Lincoln Estates	Seminary Museum	Deatrick Commons	Gettysburg Transit Center
A.M. 7:30	7:45	—	—	—	—	8:00
9:30	—	—	9:45	9:50	—	10:00
10:00	—	10:05	—	10:10	10:15	10:30
10:30	10:45	—	—	—	—	11:00
11:00	—	11:05	—	11:10	11:15	11:30
11:30	—	—	11:45	11:50	—	12:00
P.M. 12:00	12:15	—	—	—	—	12:30
1:00	—	1:05	—	1:10	1:15	1:30
1:30	—	—	1:45	1:50	—	2:00
2:00	2:15	—	—	—	—	2:30

### LOCAL POSTAL CUSTOMER

**rabbittransit** has extended its Gettysburg fixed route service to connect with the Adams County Human Services building at 525 Boyds School Road. The Blue Line now makes an additional mid-day trip to this location at 12:15 p.m. Other drop-off times to this location are 7:45 a.m., 10:45 a.m. and 2:15 p.m.

There are three main bus routes including the Blue Line, Gray Line and Lincoln (Red) Line that connect at the Gettysburg Transit Center at 103 Carlisle St. Riders may transfer to other lines at this location including the 15N rabbitEXPRESS commuter service that travels between Gettysburg and Harrisburg.

For more details about, please contact 1-800-632-9063 or visit [rabbittransit.org](http://rabbittransit.org).

## PHASE A OF THE GETTYSBURG INNER LOOP IS COMPLETE

Another big step in completing the Gettysburg Inner Loop (GIL) Bicycle Trail was finished with the installation of a plaza in front of the Gettysburg Post Office on Buford Avenue in December. That final touch was made possible through a grant from the Adams County Parks, Recreation and Green Space Program and the cooperation of the Gettysburg Post Office. That grant also funded a similar plaza along Middle Street. In addition to decorative benches, trash receptacles and bike racks, each plaza contains wayside signs highlighting local history.



The addition finished the GIL from Rec Park, crossing Stevens Run on a new bicycle/pedestrian bridge near Middle Street, to Buford Avenue and ending at Race Horse Alley. The project also added on-street sharrow markings, two lighted pedestrian crossings, sidewalks, trees, enhanced stormwater controls, and decorative lighting.

The \$1.7 million project was funded with grants from the PA Department of Conservation and Natural Resources and the PA Department of Transportation. The work brings the Borough and its project partner, Healthy Adams Bicycle Pedestrian, Inc. (HABPI), within blocks of completing the western side of the GIL.

### What's a Sharrow?

A representation of a bicycle with two chevrons above it, marked on a roadway as a symbol to indicate that motor vehicles and bicycles are to share the lane. Bicyclists may ride in the center of the lane. Vehicles may pass when there are no oncoming vehicles.



## WHAT ARE YOUR THOUGHTS ON SIDEWALKS?

The Borough has started a review of our sidewalk ordinance and we would like to hear from our residents, property owners and general sidewalk users. How can our sidewalks be improved?

You can find the current ordinance on the Borough website [www.gettysburgpa.gov](http://www.gettysburgpa.gov). Click on "Borough Code of Ordinances" on the homepage. Then click on Chapter 21, Streets and Sidewalks. Then click on Part 2, Sidewalks. You can share your thoughts and ideas for improving the ordinance by email to [rlabarre@gettysburgpa.gov](mailto:rlabarre@gettysburgpa.gov) or use the mapping survey developed for the Borough by the Adams County Office of Planning and Development. You can find the survey by clicking on "News" on the Borough's homepage and following the link.



# Gettysburg

BOROUGH NEWSLETTER

Fall/Winter 2018

*Message from Mayor Theodore Streeter*

## You're the Mayor? So, what do you do?

### **Borough Council**

#### **Mayor:**

Theodore Streeter

#### **First Ward:**

Wesley Heyser  
Patricia Lawson

#### **Second Ward:**

Jacob Schindel  
Christopher Berger

#### **Third Ward:**

John Lawver  
Charles Strauss

#### **At-Large:**

Susan Naugle

### **Borough Manager**

Charles R. Gable

I generally answer that question by stating that I cut ribbons and kiss babies. It's another way of saying that the Mayor in a borough of this class has only three basic substantive responsibilities – the rest is all ceremonial.

The first is the authority to marry people. I've been asked twice to do that but won't. For one thing, I don't know the procedure. I guess I could give the couple a Memorandum for the Record, Subject: Marriage (You are.), but that hardly seems sufficient. More importantly, I don't feel morally, ethically or theologically qualified to perform such a duty. Secondly, I officially declare snow emergencies. But, the Highway Department and the police are actually out there. So, they do it, and tell me I did. Lastly, by law, I have oversight of the police department. I exercise that on a day to day basis (mostly signing permits, etc.), but anything of importance that arises is shared with the Borough Manager and the council.

Speaking of that, the Mayor is not an official part of council. He/she attends its meetings but has no real voice or vote except in cases of a tie. And I, for one, am glad of that. This council and the current Borough staff is, on the whole, one of the most competent and capable groups I have seen in my 20 years' association with Borough government. They discuss in excruciating detail subjects such as LERTA, building heights, MS-4, zoning, parking, etc., each of which instills in me the MEGO syndrome (Mine Eyes Glaze Over). So, I am quite happy in my own world.

What is that world? Well, to return to the above, in addition to cutting ribbons, it is giving welcoming speeches, issuing proclamations and awards, making appearances (all of which involve a lot of nights and weekends), and generally representing the Borough in the best possible light. I believe the office of the Mayor should remain apolitical and avoid, to the degree possible, involvement with any group or issue that is controversial, radical, hate-oriented, etc. As the best-known small town in America, we must accept visitors of all persuasions (including those noted), so neutrality is the best option.

That, in a nutshell, is what the Mayor does. The only basic requirement is to like and respect everyone. Fortunately, my mama taught me that.



### Important

#### Numbers:

Borough 717-334-1160  
Police Dept 717-334-1168  
Emergency 911  
After Hours  
Non-Emergency  
717-334-8101  
Public Works 717-334-4666  
GMA 717-334-6738  
GARA 334-2028

## You Are Invited . . . .

**Christmas Haus Bingo** – October 13 at 7 p.m. at the Gettysburg Fire Hall Community Room (Fund raiser for the Baltimore Street Project)

**Halloween Parade** – October 23 at 7:15 p.m. - Downtown

**Borough Council Town Hall Meeting** – October 25 at 7 p.m. at Rec Park

**Council 2019 Budget Workshop** – October 29 at 7 p.m. at Borough Hall

**Christmas Parade** – December 1 at 1 p.m. – Downtown

**Gettysburg Christmas Festival and Victorian Christmas** – December 1, 10 a.m. to 9 p.m. - Downtown and Steinwher Avenue

***If anyone needs special accommodations when attending any borough meeting, please notify the Borough Secretary (334-1160 ext. 240) at least five (5) business days prior to attending the meeting.***

**A GETTYSBURG CHRISTMAS FESTIVAL – DECEMBER 1** *from Roger Lund, Festival Coordinator*

This exciting, new Festival is a blend of traditional activities and new ideas to support and build a sense of community for residents, and grow the tourism industry at a time of the year when tourists are not normally flocking to Gettysburg.

The idea for the Festival started with the successful Victorian Christmas event on Steinwehr Avenue. A team pulled together by Main Street Gettysburg took this concept and expanded it. There will now be six regions of fun and activities for the entire family. Each region will have its own themed activities, and merchants in those regions will sponsor their own decorations, costumes and entertainment. Those regions and themes are:

- **A Civil War Christmas** - Baltimore Street south
- **Our Christmas Heritage (International)** - Baltimore Street north
- **A Colonial Christmas** - York Street
- **Roaring 20s Christmas** - Chambersburg Street
- **Christmas in Film, Theater and the Arts** - Carlisle Street
- **A Victorian Christmas** - Steinwehr Avenue



Traditional activities are being incorporated in this event such as **Breakfast with Santa**, hosted by the Gettysburg Hotel to benefit the United Way. The Adams County Arts Council is moving their **Gingerbread Celebration** to the Grant Building with the generous support of Open Minds. Another tradition that is incorporated in the Festival is the **Christmas Parade**, at 1 p.m., sponsored by the Gettysburg Eagles and coordinated through the Gettysburg Times.

Entertainment is scheduled, and carolers will roam various streets in the shopping district. **"It's a Wonderful Life"** will be offered free at the Majestic Theater after the parade. **Horse drawn carriages**, sponsored by PNC Bank will take visitors from Steinwehr to the Majestic Theater. In addition, Destination Gettysburg is sponsoring a **shuttle bus** to ferry people back and forth between Steinwehr and Carlisle Street the entire day from 10 a.m. to 9 p.m.

The organizing committee is looking for people to help volunteer that day in many different capacities. You may volunteer by contacting Annie Frazee at Main Street Gettysburg ([info@mainstreetgettysburg.org](mailto:info@mainstreetgettysburg.org)).

We are looking for sponsors for everything from signage to port-o-potties. If you are able to help financially, contact Roger Lund ([rogerlund17350@gmail.com](mailto:rogerlund17350@gmail.com)). Checks should be made payable to Main Street Gettysburg (59 E. High Street Gettysburg, PA 17325). In the memo line, please write: A Gettysburg Christmas Festival.

Interest in this event has been astounding. More than 91,000 people have viewed our Facebook page and thousands sent online invitations to friends to attend. Many hotels and Bed and Breakfasts are already sold out for the weekend.

A complete listing of events and additional information can be obtained via the Festival's website at [www.AGettysburgChristmasFestival.com](http://www.AGettysburgChristmasFestival.com). We invite all residents to join us in our inaugural year AND ENJOY!

**MUNICIPAL PENSION DISTRESS SCORE ZERO!**

While this rating from the Auditor General may not sound good, IT IS GREAT! It means the Borough is fully funded for both our Police (117%) and Non-uniformed Employee (100.9%) Pension Funds. 27% of municipalities in Pennsylvania face financial distress because of underfunded pension systems. Over the years, the Borough has wisely met its financial obligation to our pension systems and our employees. Pension health is an important component of the overall financial health of the Borough.

**THOUGHT YOU WOULD BE INTERESTED TO KNOW . . .**

Four years ago, Borough Council enacted the Fire Protection Services Appropriations Tax Ordinance at a quarter of a mill or \$50 annually for a property assessed at \$200,000. The Borough collects approximately \$127,00 each year which is kept in a special fund and used to reimburse the Gettysburg Fire Department for allowed expenses such as to purchase or repair the fire house, fire engines and equipment; train fire personnel; or purchase land on which to build a fire house. These funds have been used by the Gettysburg Fire Department to replace the roof on the Fire Hall and to help pay for a new fire engine.

## SNOW AND ICE REMOVAL REMINDER

With winter approaching, our Code Enforcement Officer, Scott Weaver, reminds residents and property owners of Ordinance

21-241-246, Snow and Ice Removal from Sidewalks.

Properties located in our downtown core must remove snow and ice from sidewalks within 12 hours of the ending of the snow or ice event. All other areas of the Borough must comply within 24 hours. The area cleared must be at least 30 inches in width. This requirement applies even if the property is unoccupied or is just a vacant lot. If there is a sidewalk, it must be cleared for the safety of pedestrians.

Do not deposit snow and ice in the streets or highways of the Borough and keep fire hydrants and storm drains clear.

Please check your sidewalks after you have cleared them to make sure they comply with the ordinance. Example: Snow plows could re-cover the sidewalks making it necessary to re-shovel. And, be aware of the emergency routes that are listed in 21-242 A, which require removal of vehicles from public streets during snow events.

Failure to comply could result in the Borough clearing the walks, in which case the owner would then be sent a bill and/or citation with possible fine up to \$1,000, with each day being a separate offense.

To view this and other ordinances visit the Borough's web site at [www.gettysburgpa.gov](http://www.gettysburgpa.gov).

### 12-Hour Snow Removal

- Lincoln Square
- Chambersburg St. to Race Horse and Bream Alleys
- Carlisle St. to Water St.
- York St. to Liberty St.
- Baltimore St. to Steinwehr Av.
- Steinwehr Av. to Washington St.
- Washington St. from Railroad St. to High St.
- Stratton St. from Railroad St. to High St.
- E and W Middle St. from Stratton St. to Washington St.
- E and W High St. from Stratton St. to Washington St.

## GETTYSBURG CONTINUES TO RECYCLE!

Hardly a day goes by that there is not an article published in a national newspaper, that points to the growing crisis in the world of recycling because of the widening gap between materials produced and those accepted for recycling. Glass, cardboard, and plastics, once the stars of recycling efforts, have become burdensome rather than profitable.



The Borough of Gettysburg has a comprehensive trash hauling contract with Waste Connections Inc. that requires that residents and businesses be offered the opportunity for curbside recycling of the wide range of materials that have been accepted for years. This includes glass and plastics (types 1-7), which some neighboring municipalities have been told will no longer be accepted for recycling. Last year, the Borough Manager negotiated an agreement requiring Waste Connections to continue to offer us such broad and complete service.

During pre-registration for community electronic devices recycling events, it was noted that many residents of neighboring townships show an address of "Gettysburg 17325" even though they do not live within Borough limits. That means their trash hauling and recycling is controlled by a different contract. Waste Connections only offers services to those who live in municipalities which contract with that company. Residents and businesses located outside of Borough limits should contact their township offices to confirm what they can recycle.

### Electronic Device Recycling Success

**Two events held**

**148 customers and 874 items recycled**

Dates, times and locations for these events are posted on the Borough's website and in the Gettysburg Times. Pre-registration and assigned times are required. This event is only open to customers of Waste Connections in the Borough.

Gettysburg continues to recycle clean, clear glass containers (lids removed), plastics 1-7, clean cardboard and paper products, tin and aluminum cans, magazines, catalogs, and newsprint. In addition, Gettysburg will again be participating in a medication take-back event October 27 from 10 a.m. to 2 p.m. Interested parties should call 717-357-4439 for details.

## MORE on MS4

from Manager Charles Gable

As was introduced in the Spring/Summer 2018 Newsletter, Gettysburg Borough is an MS4-mandated community. That article discussed what stormwater is and why property owners should care about stormwater management. In this issue, we examine BMPs/SCMs, stormwater regulations, and how the Borough intends to pay for stormwater management.

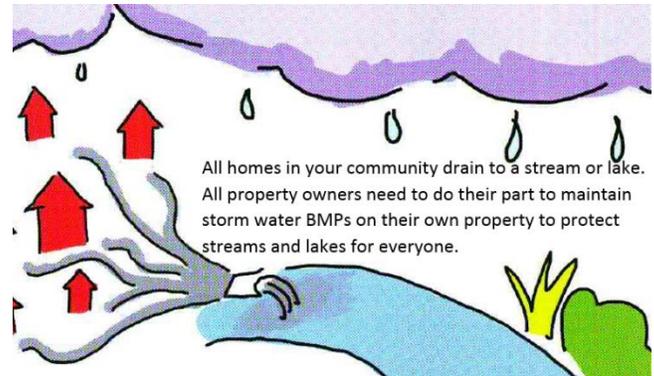
### BMPs/SCMs: What Are They and What Do They Do?

BMP stands for **Best Management Practice** and includes designed things like retention basins, as well as non-engineered approaches like protecting open space to manage stormwater. SCMs are **Stormwater Control Measures**, which are engineered facilities that are designed and constructed to manage stormwater.

The goal of BMPs or SCMs is to reduce the impact of development on downstream streams and lakes by:

- Minimizing the amount of storm water runoff,
- Slowing down the runoff,
- Infiltrating runoff,
- Evapotranspiring runoff, or
- Filtering runoff.

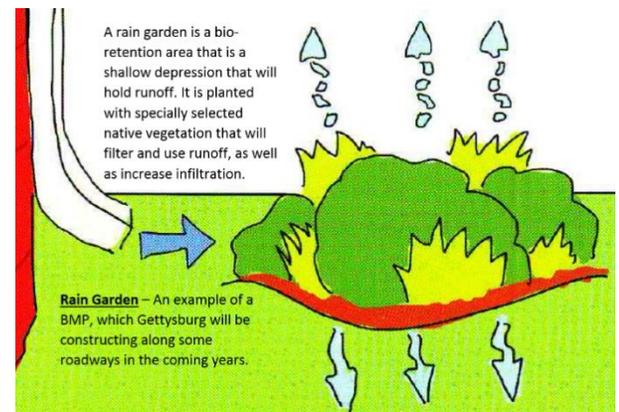
Many BMPs or SCMs will use vegetation for their ability to use water, put water back into the atmosphere, or help it infiltrate into the ground, rather than allow it to become runoff. Current and future development in Gettysburg will be done with stormwater management in mind. Stormwater flows downstream, and property owners must do their part to protect streams for everyone.



Some BMPs/SCMs are landscaped and others are buried so you might not see anything at the surface. Even though it might just look like plants and gravel, the BMP is performing a very important function. Disturbing the vegetation or compacting the soil can ruin that BMP and have a negative impact downstream. Native vegetation is the best choice for BMPs because they naturally adapt to the soils and climate, require less fertilizer, pesticides, watering, and less maintenance.

### Stormwater Regulations

When a property is developed, the developer must incorporate stormwater management facilities. They must design Erosion and Sediment Control (E&S) BMPs that are used during construction to prevent soil from running off the construction site and polluting downstream waters. When construction is complete, the developer must provide a way for these BMPs to be properly maintained over time. The developer will likely turn over the responsibility for the maintenance of the BMPs to someone else. This could be the property owner, a nonprofit organization, the local municipality, an authority, a private corporation, or another person. The developer will also produce drawings showing the locations and dimensions of the BMP – outlining the long-term operation and maintenance schedule of the BMP. Gettysburg Borough is responsible for BMP maintenance located in the public right-of-way. Examples of these are stormwater catch basins, riparian buffers along creeks/streams, and rain gardens along streets or alleys.



### How will Gettysburg Pay for Stormwater Management?

A developer could turn over maintenance of a BMP to an Authority. Gettysburg Borough Council is in the process of creating a **Stormwater Authority**, which would have the responsibility of ongoing maintenance and construction of BMPs in the Borough's rights-of-way. The newly created Gettysburg Stormwater Authority (GSA) would be funded by fees assessed to all property owners in the Borough, including tax-exempt properties like parks, schools, and churches. It is a fee for service, much like a water/sewer bill received on a quarterly basis. Fees for each property owner would be assessed based on the square footage of impervious area on the property. Impervious area is defined as areas where stormwater is prohibited from draining into the ground naturally and thus runs off into the municipal stormwater management system (i.e. stormwater drains/catch basins). There will be a tiered fee structure with the opportunity for discounts depending on the BMPs a property owner utilizes on their property. In the absence of on-site BMPs, the higher the number of impervious square footage on a property, the higher the assessed stormwater fee.

This topic will be discussed at the town hall meeting on October 25, 2018 at 7 p.m. at Rec Park. All are encouraged to attend to learn more about the MS4 mandates and how Gettysburg plans to comply with the law.

**PARKING NEWS** from Richard Miller, Director of Parking

**Smart Meter Statistics for June to August 2018**

Gettysburg Borough Parking Department  
**Zone:** Gettysburg | Area: Lincoln Square and 400 Block of Baltimore Street |  
**Date Range:** 06/01/2018 through 08/30/2018

	Data
# Meters Reporting Revenue	33
Total Cash	\$15,797.05
Total Credit	\$10,159.75
\$ Total Rev	\$25,956.80
Cash %	60.85 %
Credit %	39.14 %
# Cash	\$21,477.00
# Credit	\$5,316.00
\$ Average Cash / Pole	\$478.70
\$ Average Credit / Pole	\$307.87
\$ Average Rev / Pole	\$786.57
Average Trans Count/Pole	8.92
VISA	\$7,530.75
Master Card	\$2,441.25
Amex	\$102.50
Discover	\$85.25

The Borough of Gettysburg has reached the halfway mark of our trial period with the IPS Group Single Space Smart Meters/M5 and our MS1 Multi-Space Kiosk. The new parking meters give customers the option to pay for parking with credit cards *and* coins in Lincoln Square as well as the 400 block of Baltimore Street. The chart is a snapshot of the activity so far.

The chart shows that **60% of the residents and visitors in the Borough of Gettysburg are still using coins to pay at the meters; however, 40% of the people enjoy the luxury of using their debit/credit cards.** The Borough of Gettysburg wants to provide every option to ensure that we are providing a friendly, well-managed parking experience.

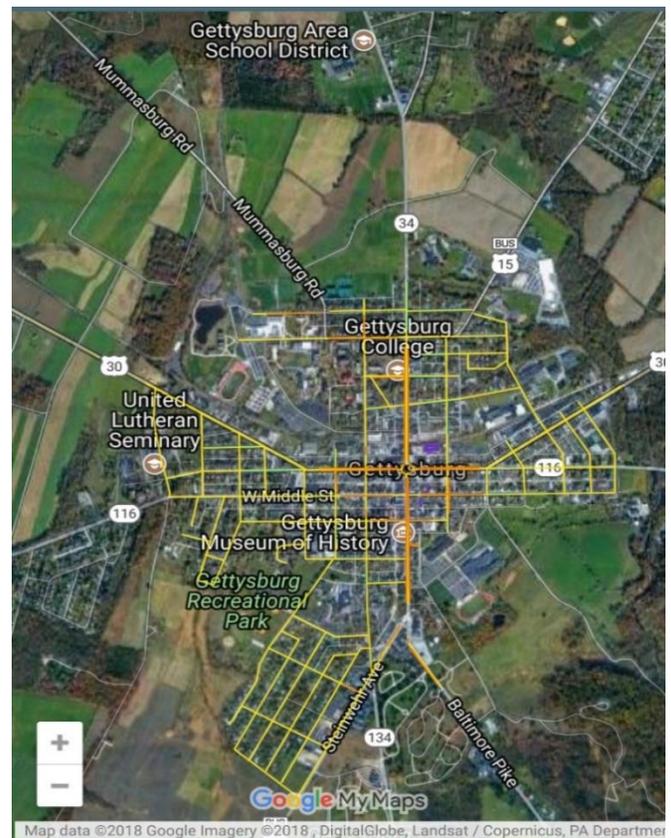
If you have any questions, concerns, or suggestions we welcome your feedback. Feel free to reach out to the Borough of Gettysburg Parking Department at 717-334-1160 or via email at [rmiller@gettysburgpa.gov](mailto:rmiller@gettysburgpa.gov).

**Borough of Gettysburg Mapping System**

**Identifying Parking in the Borough of Gettysburg**

There are many options for parking in the Borough of Gettysburg. The Parking Department is responsible for 750 on-street metered parking spaces, 356 off-street parking spaces in Race Horse Alley Garage, and just under 50 surface lot metered parking spaces as well. Our immediate goal for 2018 was to create a user-friendly map that identifies all the available parking in the Borough of Gettysburg.

Feel free to go to our Parking Department page on the Borough website and click on the Parking Map on the top right-hand side. Click on any highlighted, colored area and the map will provide details regarding daily rates for meters, rates for parking at Race Horse Alley Garage, as well as regulations for parking on street for Residential Permit Parking (RPP). Check it out!!



**Consider Volunteering** -- We are always eager to talk with citizens who are interested in serving on one of our authorities, boards and commissions. **We have vacancies!** Contact Sara Stull at 717-334-1160 ext. 240 or [sstull@gettysburgpa.gov](mailto:sstull@gettysburgpa.gov). Applications are also available on the Borough's website.

### When Do You Need a Permit to Perform Work on Your Property?

from Becky LaBarre, Director of Planning & Historic Preservation

Property improvements are a great way to make your building more comfortable, add value to your real estate, and boost curb appeal. When do you need a permit and for what type of work? In Gettysburg Borough, most projects require a **Land Use - Working Permit**. A Land Use Permit Application is our introduction to your proposed project, helping us learn about your property by providing basic information such as the address, zoning district, the current/planned use and scope of work, what improvements you'd like to make, and what additional review and/or approvals might be needed to successfully guide your job to completion. Land Use Permits are required for all types of projects, both commercial and residential, where some kind of significant change to the property will occur. Along with the completed form, which is available on the Borough website or at the Administrative Offices, there is an application fee of \$25. The Borough also requests your contractor's certificate of liability insurance and a quote/estimate detailing the full scope of work, if available. The project scope helps us to determine if the job will need a Uniform Construction Code (UCC) permit from our third-party review company, the Pennsylvania Municipal Code Alliance (PMCA), or if we are able to review in-house and issue a Non-Uniform Construction Code (Non-UCC) Building Permit. In addition to the municipal permits, the Adams County Tax Services Office requires a Building & Construction Permit for any improvements totaling \$2,500 or more.

Routine maintenance, small-scale/minor repairs, most painting, landscaping/hardscaping, etc. are exempt from permitting in the Borough. However, some of these activities may trigger other reviews that require obtaining approvals such as a Historic District Certificate of Appropriateness or a Stormwater Management Permit. **It's always a good idea to contact the Department of Planning, Zoning, and Historic Preservation in the early stages of planning your project so we can help advise you on what is needed.**

Residential upgrades to finishes and fixtures like countertops, sinks, toilets, flooring, and cabinetry are also exempt from municipal permitting, but must be filed with the Adams County Tax Services if cost is above the \$2,500 threshold.

Remember, the Gettysburg Planning Department staff is available for consultation regarding your upcoming project. Please call, email, or visit us during our regular walk-in hours on Mondays from 10:00 a.m. to noon, Wednesdays from noon to 2:00p.m., and Fridays from 9 to 11 a.m. **We're here to help!**

#### Common projects where permits would be required by Gettysburg Borough include:

- New Construction/Demolition
- Additions/Alterations
- Change of Commercial Use & Occupancy
- Fences
- Driveways
- Decks/Porches
- Roof work
- Garages/Accessory Buildings
- Commercial Signage
- Banners
- Temporary Commercial Tents/Canopies
- Replacement Windows
- Most Electrical/Mechanical/Plumbing work
- Swimming Pools/Spas over 24" deep

### COMMUTING TO HARRISBURG IS EASY WITH **rabbitEXPRESS**

15N **rabbitEXPRESS** provides multiple round trips between Gettysburg and Harrisburg during the week. **rabbitEXPRESS** alleviates the stresses of travel - high fuel prices, inclement weather and vehicle wear and tear. Comfortable coach buses feature reclining seats, laptop power sources, earphone jacks, bicycle racks and luggage storage. A key amenity is free WiFi onboard the vehicles allowing commuters to be productive with their time as they travel.

Need to leave early? Not a problem with the **Emergency Ride Home Program!** This program guarantees registered participants a free ride home up to six times per year, in case of an emergency. The commuter decides how they are transported, for example by taxi, ride-hailing service, co-worker or car rental and the program will reimburse up to \$100 per trip. This benefit is offered in partnership with Commuter Services of Pennsylvania, a **rabbittransit** partner. Step-by-step instructions and details about how to register can be found at [www.pacommuterservices.org](http://www.pacommuterservices.org).

#### **rabbitEXPRESS** Schedule – 2 buses from/to the Gettysburg Transit Center

**Departs: 6:00 am and 6:20 am**  
**2:00 pm and 2:55 pm**

**Returns: 8:47 am and 9:12 am**  
**5:11 pm and 6:09 pm**

Ready to ride? Bus passes for the **rabbitEXPRESS** are available for purchase online or download the Token Transit App to purchase digital tickets in advance. To learn more information about **rabbitEXPRESS**, please visit our website at [www.rabbittransit.org/express](http://www.rabbittransit.org/express). Drive less, save more and commute happy with **rabbitEXPRESS**.

**TIPS TO HELP PREVENT SEWER BLOCKAGES/BACKUPS** *from GMA Manager Mark Guise*

Sewers are designed to dispose of very specific things. Sewer drains that connect your home to the main sewer system are only sized to carry water, toilet paper and human waste. Modern products, such as baby wipes can block sewer pipes. These pipes are often only three or four inches in diameter.

**Biodegradable does not necessarily mean Flushable!**
**Just because it says "it's flushable" doesn't mean it is!**

The most common causes of sewer back-ups are grease, disposable wipes and the intrusion of roots into the sewer line.

Refrain from using the kitchen sink and garbage disposal for grease and all food scraps. Solids can build up in pipes over time and eventually can block a sewer line. Instead of putting food waste into a garbage disposal, use a paper towel or spatula to move food waste from plates and pans into waste container. Let melted oils used for cooking solidify in a container on the counter or in the refrigerator before placing them in the trash.

Know where your sewer line is located. Do not plant trees and shrubs near the sewer line. Roots often creep into the sewer pipe and cause a blockage. If trees or shrubs have caused a problem in the past, remove them. Don't waste money on "miracle" root killers, which work occasionally. Roots typically enter the top part of the pipe, while the root killer product sits on the bottom.

**What NOT to flush down your toilet!**

- Baby wipes, disinfectant wipes, etc. (or "flushable")
- Diapers, (cloth, disposable or "flushable")
- Facial tissues
- Napkins (paper or cloth) or paper towels
- Sanitary napkins, tampons, condoms or any non-organic material
- Toilet bowl scrub pads or "Swiffer" type pads
- Wash cloths, towels, rags, clothing or any cloth items
- Plastic of any kind
- Any food items
- Fats, oils or greases

**COMMUNITY MEDIA SEEKS FUNDING**


For the past several years, Community Media of Southcentral PA, formerly known as ACTV, has taped and broadcast our Council Business meetings. It is one of the ways we let the community know what is happening at Borough Hall. In June, Community Media lost its primary funding source. Comcast ended a voluntary payment to Community Media that began years ago with GS Communications, followed by Adelphia Cable. Comcast purchased Adelphia and honored that payment until recently.

TV cable service is provided to Gettysburg residents under a Franchise Agreement between the Borough and Comcast. This agreement gives the Borough, as the franchisee, some oversight of the cable service provided within Borough boundaries. This type of arrangement applies to other municipalities as well. Comcast subscribers in the Borough pay a franchise fee of 5% of the TV cable bill (the maximum allowed by the FCC). That fee is passed on to the Borough where it goes into our General Fund. In 2018, the Borough expects to receive approximately \$36,000 from franchise fees. Revenue from these fees has been steadily dropping as residents have more choices about how they access TV channels. Our current Franchise Agreement with Comcast will expire in January 2020.

While not required, most municipalities in other areas make a portion of the franchise fee available to their community TV station so they can continue to provide local informational and educational programming that benefits residents. An additional PEG (Public Education and Governmental Access) Fee can be assessed to Comcast TV subscribers to be used by community TV stations for capital expenses, such as equipment and space.

To continue to provide local public service programming, Community Media is requesting that all municipalities in their service territory collect the full 5% franchise fee and designate 2% to support local programming. They are also requesting municipalities consider asking that an additional PEG fee of .75% (40 to 60 cents per customer) be added to the Comcast bill. Look for this on the Borough's agenda in future months. In the meantime, check out what Community Media has to offer on Comcast Channel 12 or [www.communitymedia.net](http://www.communitymedia.net) where you can stream local programs 24/7.

## NEW Curbside Brush and Christmas Tree Collection

The Borough Public Works Department will not collect brush and Christmas trees this fall. Collection will be handled by Waste Connections under our waste hauling contract. Brush pick-up will be on your regular trash collection day on the following dates:

**Monday, October 29 or Tuesday, October 30**

**Brush must be bundled with twine or wire in 3-foot lengths that can be tossed in a truck by one collector. Bundles should be stacked near your trash for pick-up. NO LEAVES!**

Waste Connections will also pick up Christmas trees in January. Look for more information on the Borough website.

Residents of the Borough may continue to drop brush and Christmas trees at the Borough Highway Shed on Middle Street.



Borough of Gettysburg  
59 E. High Street  
Gettysburg, PA 17325

PRSR STD  
ECRWSS  
U.S. POSTAGE  
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EDDM RETAIL

LOCAL POSTAL CUSTOMER

## UPCOMING PUBLIC WORKS PROJECTS

Services will install the new stormwater system. Yes, more digging! All infrastructure work will be completed this fall and final paving will be completed in the spring.

**Alley Paving** – Barbehann, Wolf and Monument Alleys will be paved this fall. (Paving of Sheeley and Gilliland Alleys has been put on hold.)

**Broadway** – This is another major project involving infrastructure replacement. Engineering and design will be completed over the coming months with neighborhood meetings scheduled for early 2019. Residents of the project area will be notified of meeting details with door hangers. This project is expected to be completed by the end of 2019.

The above projects are funded with a combination of 2016 Bond funds and partnerships with Gettysburg Municipal Authority and Columbia Gas.

**Stratton Street** - The new water main and gas lines are in! Once Columbia Gas officially abandons the old gas line, E.K.

## LEAF COLLECTION

Borough Public Works crews will collect leaves this fall beginning in late October. Place leaves along the street (on the grass strip if available) or alley but not on the street or alley or blocking the sidewalk.

**Every day in the U.S., seven people die in home fires.** The United Way of Adams County is dedicating its 9<sup>th</sup> Annual Day of Caring to partner with the American Red Cross for the *Sound the Alarm* campaign.

**On Saturday, October 6**, teams of volunteers will be knocking on doors in Gettysburg neighborhoods where they will install 10-year lithium battery smoke alarms and provide fire prevention education and training. By targeting 756 residences, they hope to protect 100 households with 300 working smoke alarms. Pre-registration is not required but you can do so by calling the United Way at 717-334-5809.



## The General Election is Tuesday, November 6. Don't Forget to Vote!

Ward 1     Gettysburg Fire Hall, Stratton Street  
Ward 2     College Union Building, Room 126, West Lincoln Avenue  
Ward 3     Rec Park, Charlie Sterner Building, Long Lane



# Gettysburg

BOROUGH NEWSLETTER

Spring/Summer 2018

## **Borough Council**

### **Mayor:**

Theodore Streeter

### **First Ward:**

Wesley Heyser  
Patricia Lawson

### **Second Ward:**

Jacob Schindel  
Christopher Berger

### **Third Ward:**

John Lawver  
Charles Strauss

### **At-Large:**

Susan Naugle

### **Borough Manager**

Charles R. Gable

## **President's Message** from Susan Naugle

We are pleased to bring back the *Borough Newsletter* after a two-and-a-half-year absence due to budget cuts. There are only a few ways, in a small community like ours, to keep residents and property owners informed about what is happening in local government. The printed newsletter is a great companion to our much-improved website and yet another way to provide a more open government.

As I was working on the *Newsletter* to update council member information, I was reminded of how much has changed since 2015. Back then, we had nine council members – three from each ward – and Borough Manager Charles Gable was barely one year into his job. Today, we have a seven-member council with only two members, Jacob Schindel and myself, still in our council seats. Ted Streeter has replaced long-time Mayor William Troxel and Charles Gable is now a four-year veteran as manager. All this got me to think about how much change impacts local government.

Change is constant. Elected officials come and go, and new personalities often result in new directions and different visions. Changes in federal and state laws place new requirements and mandates (often unfunded) on borough government. Staff changes sometime require the shifting of responsibilities and training new personnel. Every day brings unexpected challenges and opportunities making it almost impossible to control the workday. It is surprising that, despite the constant change, Borough government does get things done on budget and on time. The one constant that helps make that happen is dedicated staff and sound management. We are fortunate to have both.

One way that we keep you informed of this constant change and reordering of priorities is through the *Newsletter*. We are planning two issues this year with the next coming out in the fall. We invite you to communicate with us regarding the issues that are important to you. We hope that this and future newsletters will create a better understanding of what is happening at Borough Hall. Thank you for reading and sharing your ideas with us.



## You Are Invited . . . .

**Borough Council Town Hall Meeting** – June 7 at 7 p.m.  
at the Gettysburg Fire Hall Community Room.

**Baltimore Street Revitalization Public Event** – June 15  
from 4 p.m. to 6 p.m. at Unity Park.

**Electronic Device Collection** – June 16 from 9 a.m. to 11 p.m.  
at the Public Works Building on East Middle Street. Must pre-register by  
calling 717-337-0724, 9 a.m. to 5 p.m. weekdays.

**Ribbon Cutting for the Gettysburg Inner Loop Bicycle Trail**  
July 10, 2018 at 10 a.m. at Middle and Reynolds Streets.

### **Important**

### **Numbers:**

Borough 717-334-1160

Police Dept 717-334-1168

Emergency 911

After Hours

Non-Emergency

717-334-8101

Public Works 717-334-4666

GMA 717-334-6738

GARA 334-2028

**If anyone needs special accommodations when attending any borough meeting, please notify the Borough Secretary (334-1160 ext. 240) at least five (5) business days prior to attending the meeting.**

Virtual Lobby and Borough Office Hours



Organizations and businesses are often challenged to do more with fewer or limited resources. The Borough is no exception. Beginning in 2018, the Borough eliminated the full-time receptionist and implemented automation for visitors to the borough building to access the staff personnel they need to speak with. While this cost-cutting measure is a change, accessing Borough staff is essentially the same as if the receptionist were present. Borough staff has called this new automation the "virtual lobby". A visitor should view the TV screen on the wall, with audible instructions and informational messages, directing them on how to access the staff member they need to see. Identify the staff member and their three-digit telephone extension number. Simply pick up the phone receiver and enter the three-digit extension number. If they are not immediately available to meet, simply leave a message. Additionally, each staff member's business card is available on the front counter. Please take one if you'd like to email them to request a meeting date and time. The Borough also provides a publicly accessible computer, where visitors can learn more by visiting the Borough's website at [www.GettysburgPA.gov](http://www.GettysburgPA.gov).

Limited office hours for two of the Borough's busiest departments will begin June 1. Personnel from the Department of Planning and Historic Preservation and the Parking Department will be available for drop-in visitors

	FaceTime with the Parking and Planning Departments	
	Planning	Parking
Monday	10am-Noon	1pm-3pm
Tuesday	N/A	9am-11am
Wednesday	Noon-2pm	9am-11am
Thursday	N/A	9am-11am
Friday	9am-11am	1pm-3pm

Policing Gettysburg by Chief Joe Dougherty

Every day, you observe marked police cars patrolling the streets of the Borough, but few of us have any idea what our officers do on a daily basis.

Our officers perform many non-law enforcement duties in addition to reporting and solving crimes. One of the primary goals of the Gettysburg Borough Police Department is to provide the citizens and visitors with a feeling of safety in their daily lives. Over the years, the role of law enforcement in the US has evolved from "crook catching" to one that is more actively involved in addressing society's social issues. Police officers are often the first line of contact for the homeless, those with learning disabilities, citizens needing non-police related services and similar situations. Officers attempt to link those citizens to appropriate agencies for help.

Join us every Tuesday morning at 9:00 AM for

**"Coffee with a Cop"**

McDonald's on Steinwehr Ave

Officers are available for a "meet and greet" with locals and tourists alike.

Thanks to McDonald's owner Emmett Patterson for making this possible.

In 2017, officers made 69,742 routine security checks of businesses. Checks during the day provide first-hand knowledge of the business and, at night, provide security. Last year, 269 residence checks were made for citizens who reported they would be on vacation. (Forms requesting residence checks are available on the Borough website and at the police station.) Officers also make routine security checks at the Rec Park and at schools located in the Borough.

The current budget allows for 8 full-time Patrol Officers, two Patrol Sergeants, one Criminal Investigator, one Administrative Assistant and one Chief of Police.

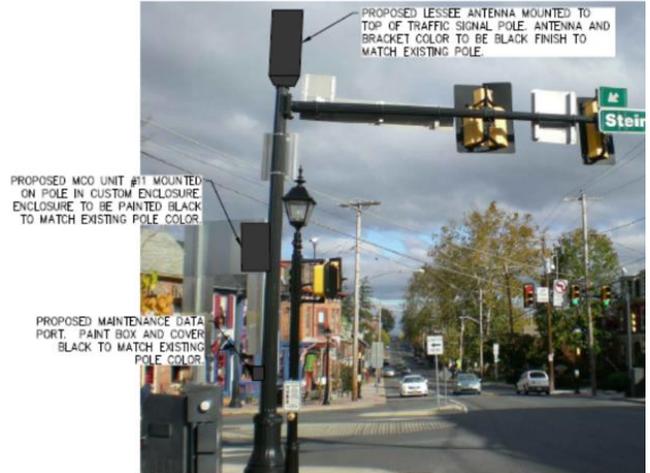
All attempts are made to have at least two Patrol Officers on duty, at all times, for the safety of our citizens.

Training is critical. The Pennsylvania Municipal Police Training and Education Commission requires that all police officers attend a basic training course of 919 classroom hours of instruction prior to becoming certified and 16 hours annually to maintain certification.

If you need to contact the Gettysburg Police Department, telephone the Adams County Emergency Services Center at 717-334-8101 for routine non-emergency matters or 911 for life threatening situations. For routine administrative issues, telephone 717-334-1168 from 8am to 4pm, Monday through Friday.

VERIZON SMALL CELL SITES

Have you ever had spotty cellular service in Gettysburg? Well, if you have, that is about to change. Verizon Wireless has partnered with the Borough to increase the reliability of the cellular network. You recently may have noticed work being performed at targeted intersections across the Borough. Verizon is leasing space on Borough-owned traffic signals to install small cell sites, which are the next generation of the larger cell towers. These small cell sites are black in color and are designed to complement the historic look of the Borough's traffic signals, as to not stand out to the casual observer. While improving cell service, the Borough is also collecting rent from each of the 12 sites. Each site will generate \$3,000 annually, which will be used in the Borough's general operating fund.



If you are commuting alone to your job every day . . . .

you might want to check out Commuter Services of Pennsylvania.

[www.pacommuterservices.org](http://www.pacommuterservices.org) 1-866-579-RIDE

Use their online commute calculator to find out how much you are spending to get to work. Ask them to help you find a carpool partner or form a vanpool. Check out their Ridesharing Program and Emergency Ride Home Program. You could save money, enjoy a more relaxing commute, reduce traffic congestion and help improve air quality.

NEW PARKING MANAGER ON BOARD



In March, the Borough welcomed a new staff member into a new position. Richard L. Miller II became the Borough's first parking manager. He is managing a department that provides more than \$1 million in annual revenue to the Borough, or 22% of total revenue with a budget of \$355,000.

Richard brings a background in management centered on community and economic development and customer service – a vital skill for dealing with parking issues. His prior experience includes supervising 22 full-time and seven part-time employees as the Parks and Sanitation Supervisor for the City of York and previously he managed the Elm Street Program for the YWCA of York.

In Gettysburg's Parking Department, Richard has discovered a "self-sufficient department with great policies, established procedures and solid ordinances." He is impressed with a staff that is "in tune with the community and committed to fairness." He is excited about joining the Borough at a time we are exploring new technologies such as vehicle charging stations and smart meters. (Read more about those on page 5.)

Richard's goals for the department include a smooth transition to new technologies, ensuring that our parking system meets the needs of the community, and applying principals of leadership development to build a sense of ownership within the department. Beyond work, Richard has a passion for real estate and an interest in preserving the architectural integrity of communities. Richard Miller welcomes your parking questions and suggestions. He can be reached at 717-334-1160 ext. 241, or RMiller@GettysburgPa.gov.

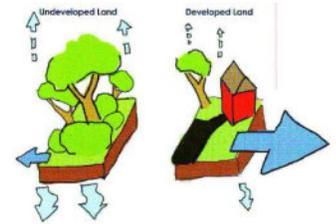
### MS4 – What Is It? What You Need To Know

The Borough of Gettysburg is a mandated MS4 community and must comply with federal regulations.

MS4 is an acronym for Municipal Separate Storm Sewer System (MS4). MS4 programs are designed to prevent harmful pollutants from being washed or dumped into streams, rivers, and watersheds. Gettysburg must create Storm Water Management Programs (SWMP). SWMPs describe storm water control practices that will be implemented consistent with MS4 mandates and will minimize the discharge of pollutants from the storm sewer system.

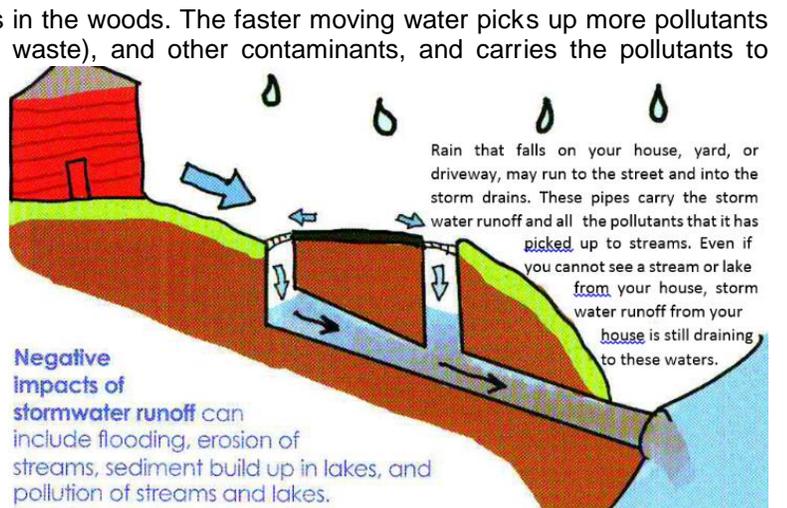
#### What is Storm Water?

Storm water is the water that runs off land after precipitation, either rain or snowmelt. Rain or snow can drain into the soil (called infiltration), evaporate back into the atmosphere, be used by plants, or flow into streams or water bodies. The water that runs off the land to streams or lakes is referred to as storm water runoff. Storm water runoff happens in natural, undeveloped areas, but typically only for larger storms. For most areas in Pennsylvania that are wooded or natural meadows, it takes about an inch or more of rain to produce runoff. After development, the natural wooded or meadow areas are replaced with roofs, driveways, sidewalks, and streets. These hard surfaces are called impervious surfaces, and they do not allow water to drain through them, unlike how rain can drain into soil (which is called a pervious surface). When rain falls on impervious surfaces, it quickly runs off rather than infiltrating into the soil or being taken up by vegetation.



#### Why Should I Care About Storm Water Management?

Storm water flows much faster along a road than it does in the woods. The faster moving water picks up more pollutants like sediment, fertilizers, pesticides, bacteria (from pet waste), and other contaminants, and carries the pollutants to streams and lakes. An increase in the amount of water that runs off after development and how quickly it runs off can cause erosion and instability in streams. Storm water runoff can cause streams to become wider, deeper, and straighter, losing their natural bends and decreasing habitat for fish and other animals that live in streams. Storm water from developed areas can also be hotter than natural stream sources. Warmer water holds less dissolved oxygen, so storm water can be harmful to fish like trout that need more oxygen. It's easy to notice the flooding impacts of large rain storms. Over time, smaller storms can have an impact on streams, too. All homes, businesses, schools, and churches in the community drain into a stream. Everyone needs to do their part to maintain storm water Best Management Practices (BMP) to protect streams and lakes for everyone. The Borough is developing a formal BMP program. We will announce those plans later this year and share them in the Fall/Winter issue of the *Borough Newsletter*. For more MS4 information, visit the Borough website at [www.GettysburgPA.gov](http://www.GettysburgPA.gov). Search the term 'MS4' at the top of the homepage.



### VISIT FROM THE USS GETTYSBURG CREW

Mayor Ted Streeter and members of borough council and the community welcomed 20 crew members from our namesake ship, the USS Gettysburg, over the weekend of May 19. The visiting crew included Captain Corey Keniston and Lt. Jim Reyes. The Gettysburg is currently laid up in Norfolk Virginia as part of the Navy's cruiser modernization program. According to Captain Keniston, the goal is to return the ship to the fleet in September 2019. Once upgrades are completed, the USS Gettysburg, with a crew of 350, will be one of the most electronically advanced ships in the fleet.

While visiting Gettysburg, the crew enjoyed a dinner hosted by the American Legion, a visit to the USS Gettysburg Room at Borough Hall, a tour of the Gettysburg Battlefield, and a Town Guide tour. The visit also included a re-enlistment ceremony at the Lincoln Train Station for Master Chief Christopher Michael Allen. The crew presented the Borough with a framed flag which had been flown over the ship.

## SMART METER PILOT

The IPS Group Smart Parking Meters Pilot Program is set to be unveiled on June 1. It is one of many new and exciting projects that are set to begin along Baltimore Street as part of a larger revitalization effort. The Borough is working in conjunction with Main Street Gettysburg to ensure that our streetscapes are aesthetically pleasing, vibrant, safe and walkable extensions for residents and visitors to frequent our businesses, enjoy the beautiful architecture, and plethora of tourist attractions. It is small, yet effective changes like adding single space Smart Parking meters and multi Smart Parking kiosks, that make the Borough of Gettysburg a user-friendly tourist destination to 4 million people annually.

### What exactly is a Smart Parking meter?



Smart Parking meters are parking meters that use cloud-based technology to operate and use various forms of currency to make payments. In the near future, the system will be tied to a smart phone app. App users will be able to pay for their meter remotely. The app will remind users when their time is set to expire,

and even help the user remember where they are parked. The most exciting feature will be user's ability to identify open parking spaces, in real time, on their smart phones.

The value of incorporating Smart Parking meters into the Borough of Gettysburg is to upgrade our ability to provide smarter options for parking and to track data. These smart devices will be operating at maximum efficiency, maximum speed, and utilizing minimal energy, which is an ideal scenario. The meters will generate very valuable data. The Borough will be able to track occupancy, time of day, average pay, etc. The goal is to tie the on-street parking data with our off-street system to analyze the parking pulse of the community.

## New Parking Regulations and Services

**Sunday Enforcement:** Our parking regulations have been updated and revised - more specifically, the enforcement of parking meters on Sundays. These changes can be found under our new ordinances **Chapter 15 Part 4 Section 506 subsection A**, which states:

*“Rates for off-street metered parking shall be established by resolution to be adopted from time to time by the Borough Council. Such rates shall be effective during the period between 8:00 a.m. and 8 p.m., Monday through Saturday, and Sunday between the hours of 1 p.m. and 8 a.m., prevailing time, each day, with a two-hour parking time during that period.”*

We are working diligently to ensure that our ordinances and resolutions are user friendly and easily accessed on our website.

**EV Charging Stations:** Recognizing the increasing number of electric cars, the Borough has installed two electric vehicle charging stations in the Race Horse Alley Parking Deck. They are located on level 3 near the exit.

## FUTURE OF DOWNTOWN FLOWER BASKETS IN JEOPARDY



We all love our downtown flowers! They add charm and beauty and encourage visitors to make return visits and encourage friends and family members to do the same. It's impossible to quantify their contribution to our tourist economy. Those beautiful flowers would not exist if it were not for the ongoing care and commitment of the Gettysburg Garden Club.

For decades, the Garden Club has raised funds, planted and maintained the flowers in the circle in Lincoln Square. In 2008, the Club agreed to take over responsibility for the Downtown Flower Basket project - 44 hanging baskets and eight planters. Unfortunately, costs have soared and are beyond the capacity of the Club to cover beyond 2018. Daily watering is the challenge. No water, no flowers!

For the Downtown Flower project to continue, the community needs stakeholder organizations, businesses and individuals willing to commit contributions of \$500 to \$1,000 or more, on an annual basis to cover watering costs. The Borough has agreed to hire and manage an employee to do the watering but will need to be reimbursed for that expense. The estimated annual cost for labor for watering is expected to be range from \$6,000 to \$7,000. The Garden Club will continue to raise funds needed to purchase, plant and hang the baskets with assistance from Musselman's Greenhouse. This project does not include the flower baskets on Steinwher Avenue, which are funded by the Steinwher Business Improvement District.

Contributions can be made to the Gettysburg Garden Club, PO Box 3041, Gettysburg PA 17325. Contributions are tax deductible. If you are interested in becoming a sustaining contributor, contact Gettysburg Garden Club President Karen Szoke at 717-337-9030.

## Gettysburg (Still) Recycles!

The Borough's new contract with Waste Connections (formerly IESI) took effect on January 1. The new contract allows for curbside yard waste (no leaves) pickup by the hauler, which will occur on regular trash days in late July and again in late October. Curbside Christmas tree pickup will also be provided in January, as well as bagged grass cuttings throughout the summer. Collection of electronic devices will be held quarterly at no cost to Waste Connections customers. One large item per week, except an appliance containing freon, is allowed for pickup.

Bag-a-Tag service is available for households with less than average trash. Tags are available from Waste Connections at \$3.75 each for 12 tags minimum. Residents may use a bag of their choice, providing it is sturdy and that the tag is clearly visible by the driver. Trash and recyclables will continue to be collected on the same day.

After a brief hiatus, the Borough's Recycling Committee is back in true form. The mission of the Committee is to raise public awareness of recycling as required by law and, to that end, monthly articles will appear in the Gettysburg Times and in each Borough Newsletter. For more information contact Judie Butterfield at [jbfd@comcast.net](mailto:jbfd@comcast.net).



### Local Recycling Facts

- ✓ Gettysburg businesses and residents **must** recycle the following: **cardboard, narrow-necked plastic containers, clean newsprint, container glass, and all beverage and food cans made of aluminum, steel, tin or bimetal (aluminum and steel).**
- ✓ Avoid throwing non-container glass (such as mirrors or picture frame glass), Pyrex, aluminum pots and pans, aluminum foil, Styrofoam, and crockery in the recycling bin.
- ✓ You **may** recycle any materials accepted by the hauler. See a complete list of recyclable materials at [www.gettysburgpa.gov](http://www.gettysburgpa.gov)
- ✓ Housing properties with more than three units **must** establish a collection system at such property.
- ✓ Electronic Devices will be collected for recycling at the Borough Public Works Building June 16. More information is available at <http://www.gettysburgpa.gov/recycle>

**Recycling: Good for the Environment, and it's the law!**

## INNER LOOP EXPANSION BRINGS IMPROVEMENTS

The Gettysburg Inner Loop Bicycle Trail (GIL) just got nine blocks longer! The completed trail now stretches from the southern border on Steinwehr Avenue through Rec Park to Buford Avenue. A spur route at Springs Avenue takes cyclists up to Seminary Ridge and the National Military Park. The project includes a beautiful new bridge over Stevens Run between High and Middle Streets, new sidewalks, decorative lighting, landscaping, stormwater improvements, and two new lighted crosswalks on Middle and Buford Streets. Soon to be installed are benches, bike racks, waste receptacles and four wayside signs. The trail at the bridge includes imbedded concrete "railroad ties" depicting the path of the Round Top Branch of the Gettysburg & Harrisburg Railroad.

The project is the result of a partnership between the Borough and Healthy Adams Bicycle Pedestrian, Inc. (HABPI), the great work of C.S. Davidson, Inc. and Kinsley Construction and numerous grant programs totaling more than \$1.7 million: The Hoffman Trust; Community Conservation Partnership Program grant from the PA Department of Conservation and Natural Resources; a federal Congestion Management and Air Quality grant through the Adams County Transportation Planning Organization; a federal Transportation Alternatives Program grant through PennDot; and a Parks, Recreation and Green Space Grant from Adams County. Thanks go, as well, to Senator Rich Alloway for his active support of the GIL.



*Photo courtesy of Max Bramel and Nanette Hatzes*

**2018 Historic Preservation Awards**

At its May meeting, the Borough celebrated **Preservation Month** by recognizing the work of residents and businesses to preserve, rehabilitate, restore and construct buildings in our Historic District in keeping with the architectural and historic character of the District. The award recipients were chosen by our Historic Architectural Review Board (HARB) from projects completed in 2016 and 2017. Photos are available on the HARB page of the borough website.

**REHABILITATION**

**PRESERVATION**

<b>Certificate of Exceptional Merit</b> 789 Baltimore Street <b>Certificate of Merit</b> 75 W. Stevens Street <b>Honorable Mention</b> 101 Chambersburg Street 154-156 E. Middle Street 150 N. Third Street	Max Felyt  Gettysburg College  John and Gina Levan Steve and Pat Nevada Jon Shultz	<b>Certificate of Exceptional Merit</b> 38 E. Middle Street <b>Certificate of Merit</b> 326-328 Baltimore Street 217 Stratton Street 70 E. Stevens Street 58 E. Water Street	Audrey Tamblyn  Larry Weikert Catherine Crandall Sharon Graff Jonathan & Jessica Diehl
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**RESTORATION**

**NEW COMMERCIAL CONSTRUCTION**

<b>Certificate of Exceptional Merit</b> 55 Chambersburg Street	Steve & Deb Garvick	<b>Certificate of Merit</b> 301 Steinwehr Avenue	Paul Witt and Nate & Laura Mares
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**STABILIZATION**

**NEW RESIDENTIAL CONSTRUCTION**

<b>Certificate of Merit</b> 163-165 York Street	Monica Oss & Jay Mackie	<b>Certificate of Merit</b> 12 Wade Avenue	Kurt and Nancy Kramer
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**GMA: PROTECTING WATER SOURCES** *by Mark Guise, GMA Manager*

To improve and protect the safety of its drinking water supplies, Gettysburg Municipal Authority's (GMA) Source Water Protection Plan (SWP) received approval from the PA Department of Environmental Protection in December 2017. The plan recommends a variety of management options to develop a comprehensive approach to protection of GMA's sources of water.

The objective of GMA staff, along with a steering committee comprised of residents from Gettysburg Borough, Cumberland Township and Straban Township, was to develop a source water protection plan that delineates the protection areas for GMA water sources, determines the transport times and pathways of potential contaminants, identifies sources of contamination, and offers strategies to protect the water sources from contamination.

A recommendation of the SWP is to provide additional water storage for our system. The GMA is in the development and design phase for two additional water storage tanks. One will be located adjacent to the existing tank on Cemetery Hill, the second will be constructed adjacent to the intersection of Fairplay Road and Herr's Ridge Road.

During the spring and summer of 2018, GMA will continue ongoing efforts to replace aging infrastructure. GMA will replace approximately 1,000 feet of 4-inch cast iron main with 8-inch ductile iron pipe. This project will take place on North Stratton Street between Water Street and East Lincoln Avenue. Additionally, minor point repairs along with lining of the sewer main will occur where needed.

Any customer questions or concerns regarding this project may be directed to Gettysburg Municipal Authority Utilities Manager Mark Guise by email at [mguise@gettysburgma.com](mailto:mguise@gettysburgma.com) or by phone at 717-334-6738 ext. 225.

**Consider Volunteering** We are always eager to talk with citizens who are interested in serving on one of our authorities, boards and commissions. Contact Sara Stull at 717-334-1160 ext. 240 or [sstull@gettysburgpa.gov](mailto:sstull@gettysburgpa.gov). Applications are also available on the Borough's website.

## From Public Works:

Unless indicated otherwise, the following projects are scheduled to be completed by our Public Works Department. Some projects could impact your neighborhood, close streets or slow traffic.

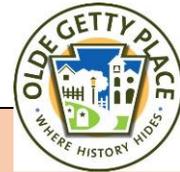
- **Carlisle Street** – storm drain replacement followed by milling and paving – Current into July
- **Rec Park** – paving the GARA parking lot – Early June until late June
- **Stratton Street** – gas line, water line and storm drain replacement – Joint project with Columbia Gas, Gettysburg Municipal Authority and the Borough - current into fall 2018
- Curb ramp replacement at the following intersections by Kinsley Construction: **Hillcrest/Locust, Johns/Culp, Highland/Culp, Fairview/Culp, Gettys/Fairview and Highland/Johns** – June & July 2018
- **Culp Street** (Steinwher to Fairview) – mill and pave – 5-day project starting late July
- Night time line painting – everywhere throughout the summer.
- **Monument, Wolf, Sheely, Barbehann and Gilliland alleys** – tear out and repave – August-September



Borough of Gettysburg  
59 E. High Street  
Gettysburg, PA 17325

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LOCAL  
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## “OLD GETTY PLACE” EVENTS

*Olde Getty Place* is making plans for a bigger and better **National Night Out on Tuesday, August 7** from 5 to 8 p.m. The event will be held on Breckenridge Street with music, food, dancing, activities for kids and more. If you are interested in being a vendor, please contact Stephanie at [smcilwee@adamscha.org](mailto:smcilwee@adamscha.org) or call 717-334-1518

**The 3<sup>rd</sup> Annual Olde Getty Place Car Show will be held on Saturday, Sept. 22** from 8 a.m. to 1 p.m. Look for the cars on the first block of West High and behind the Gettysburg United Methodist Church, a partner for the event. This year will be even bigger and better with the possibility of extending onto East High Street.

## Baltimore Street Revitalization Public Event

The Baltimore Street community invites you to attend a celebration on Friday, June 15, 2018 from 4 p.m. to 6 p.m. at Unity Park. Music, food and fun will be available as the Baltimore Street community shares their vision for the future of Baltimore Street.

The Baltimore Street Economic Development Revitalization Project, a \$11M facelift for the most important street in Gettysburg, is the next phase in Main Street Gettysburg's Ten Year Economic Development Plan to physically improve our downtown. The plan focuses on making our downtown more pedestrian friendly with wider sidewalks, new heritage street lighting, pedestrian amenities and road dieting to slow the many cars and trucks speeding through town.



CROSSROADS-ADAMS COUNTY

Main Street Gettysburg, the Borough's economic development arm, is the only non-profit whose sole purpose is preserving, maintaining, and revitalizing downtown to make it more attractive to its residents, businesses, investors and visitors.

These revitalization projects require significant work behind the scenes informing the public, coordinating grant funding and providing the project leadership needed to achieve community-wide improvements. Grants rarely offer funding for operational costs. We need your help. Without Main Street Gettysburg, the work to improve the physical attractiveness of our town for the benefit of our residents, visitors, and business owners would not exist. Come to the event and donate to the organization and project.

Another way to support Main Street Gettysburg is to send a check made out to Main Street Gettysburg to 59 E. High Street, Gettysburg, PA 17325 or donate online at [www.mainstreetgettysburg.org/donate](http://www.mainstreetgettysburg.org/donate).



# GETTYSBURG

*Pennsylvania*  
... HISTORIC CROSSROADS

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[Authorities, Boards, & Commissions \(ABCs\)](#)

[Departments](#)

[Borough Code of Ordinances](#)

GBSWA - Informational Resources

GBSWA Rates, Rules, and Regulations (Effective July 1, 2019) - (Adopted July 8, 2019)

Pollution Reduction Plan (PRP) (2018-2023) Revised October 5, 2018

GBSWA Articles of Incorporation

2019 GBSWA Resolutions

Form CEC - Continuation of Existing Credits

Form SMPCA - IA SMP Fee Credit Application

Form SWAA - Storm Water Adjustment Appeal

## Contact Info

### Hours of Operation:

#### Office Hours

M-F 8:00 AM to 5:00 PM

#### Borough Building Closed:

*New Year's Day, Martin Luther King Jr. Day, President's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving Day,*

[Home](#) » [Authorities, Boards, & Commissions \(ABCs\)](#)

# Gettysburg Borough Storm Water Authority (GBSWA)

a.k.a. MS4

## 2019 Videos and Presentations of the GBSWA

(Click Link to be directed to Presentation)

Power Point Presentations	Video Link
<a href="#">What is MS4? How did we get here?</a>	Monday, March 25, 2019
<a href="#">How Does MS4 Work?</a>	Monday, April 8, 2019
<a href="#">How much does MS4 cost? Fees?</a>	Monday, April 15, 2019
	Monday, April 22, 2019
	Monday, April 29, 2019
	Monday, May 6, 2019
	Monday, May 13, 2019
	Monday, June 10, 2019
<a href="#">MS4 Informational Video - Produced by Community TV</a>	Monday, July 8, 2019

Polluted stormwater runoff is commonly transported through municipal separate storm sewer systems (MS4s), and then often discharged, untreated, into local water bodies.

An MS4 is a conveyance or system of conveyances that is:

- owned by a state, city, town, village, or other public entity that discharges to waters of the U.S.,



MS4 Program

## News

[D-Day Commemoration in Gettysburg](#)

[Gettysburg Borough Certified as a Gold Sustainable Community](#)

[PennDOT Baltimore St. Project](#)

[Haul-No! Gettysburg, citizens for common-sense restrictions on tractor-trailer traffic.](#)

[Help Us Revise the Sidewalk Ordinance](#)

[View all](#)

## Gettysburg Borough Storm Water Authority (GBSWA) Calendar

Day after Thanksgiving, Christmas Day

**Phone:**

(717) 334-1160

**Fax:**

(717) 334-7258

**Emergency Numbers:**

911

**Address:**

Gettysburg Municipal Building  
59 East High Street  
Gettysburg, PA 17325  
United States

See map: [Google Maps](#)

## Key Contacts

**Chad Clabaugh**

(717) 814-4529

**Charles R. Gable, MPA**

(717) 334-1160 ext. 222

## Frequently Asked Questions

What else can property owners do to ensure clean water?

When will the stormwater fee be implemented?

How do these regulations impact me?

Who does it effect?

What does MS-4 stand for?

[View all](#)

- designed or used to collect or convey stormwater (e.g., storm drains, pipes, ditches),
- not a combined sewer, and
- not part of a sewage treatment plant, or publicly owned treatment works (POTW).

To prevent harmful pollutants from being washed or dumped into MS4s, certain operators are required to obtain NPDES permits and develop stormwater management programs (SWMPs). The SWMP describes the stormwater control practices that will be implemented consistent with permit requirements to minimize the discharge of pollutants from the sewer system. Gettysburg Borough is a mandated MS4 community and must comply with the regulations.

## Staff Contacts

Name	Phone
Chad Clabaugh	(717) 814-4529
Charles R. Gable, MPA	(717) 334-1160 ext. 222

## Board of Directors

Name	Title	Address	Term Expires
Michael S. Malewicki	Chairman	2 West Broadway Gettysburg, PA 17325	Three (3) Years January 2022
John Lawver	Vice-Chairman	524 McMillan Street Gettysburg, PA 17325	Four (4) Years January 2023
Wesley K. Heyser	Member	226 North Stratton Street Gettysburg, PA 17325	Five (5) Years January 2024
Patricia A. Lawson	Member	515 Carlisle Street Gettysburg, PA 17325	Two (2) Years January 2021
Theodore Streeter	Member	111 East Middle Street Gettysburg, PA 17325	One (1) Year January 2020



« September »

S	M	T	W	T	F	S
	1	2	3	4	5	6
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

All upcoming events

## Agendas

- [Gettysburg Borough Storm Water Authority Meeting](#)  
August 12, 2019 - 5:30pm
- [Gettysburg Borough Storm Water Authority Meeting](#)  
July 8, 2019 - 5:30pm
- [Gettysburg Borough Storm Water Authority Meeting](#)  
June 10, 2019 - 5:30pm
- [Gettysburg Borough Storm Water Authority Meeting](#)  
May 13, 2019 - 5:30pm
- [Gettysburg Borough Storm Water Authority Meeting](#)  
May 6, 2019 - 5:30pm

[View all](#)

## Minutes

- [GBSWA Meeting Minutes](#)  
June 10, 2019
- [GBSWA Meeting Minutes](#)  
May 13, 2019
- [GBSWA Meeting Minutes](#)  
May 6, 2019
- [GBSWA Meeting Minutes](#)  
April 29, 2019
- [GBSWA Meeting Minutes](#)

## Quick Links

[National Pollutant Discharge  
Elimination System \(NPDES\)](#)  
[Municipal Storm Water - PA  
Department of Environmental  
Protection \(DEP\)](#)  
[Storm Water Pennsylvania -  
MS4 Program](#)

[View all](#)

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### Gettysburg Pennsylvania

Borough Office: 59 East High Street, Gettysburg, PA 17325 | 717-334-1160

Government Websites by CivicPlus®

[Login](#)

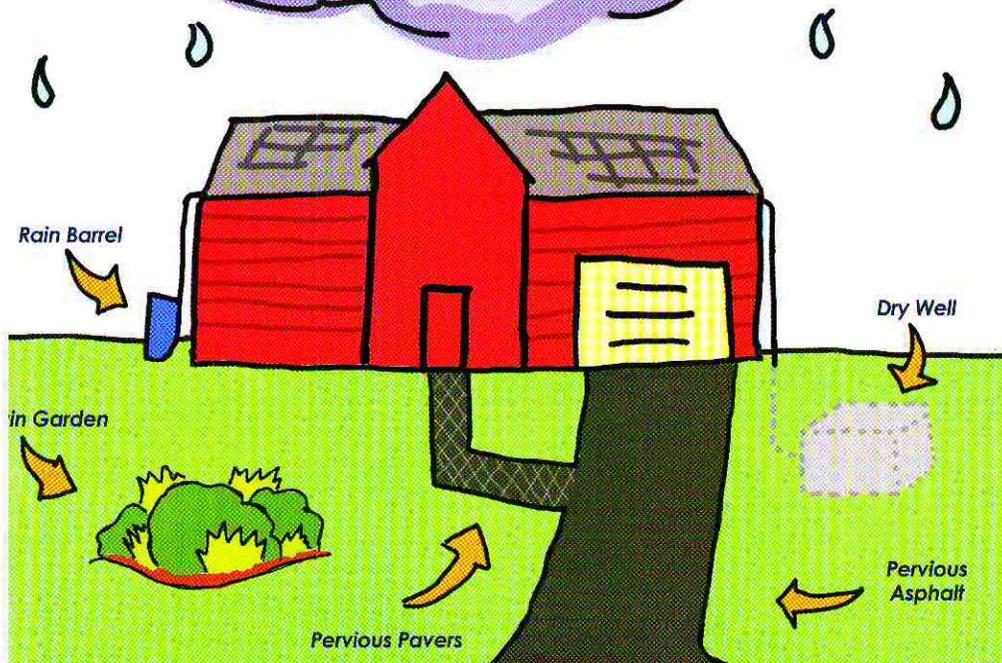
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'No Dumping' Stormwater Inlet Badge



# Homeowners Guide to Stormwater BMP Maintenance

What You Need to Know to  
Take Care of Your Property



**About** Stormwater Management  
SW **Regulations** for Homeowners  
Home Stormwater **BMP Descriptions**

Pages **1 - 4**

Pages **5 - 6**

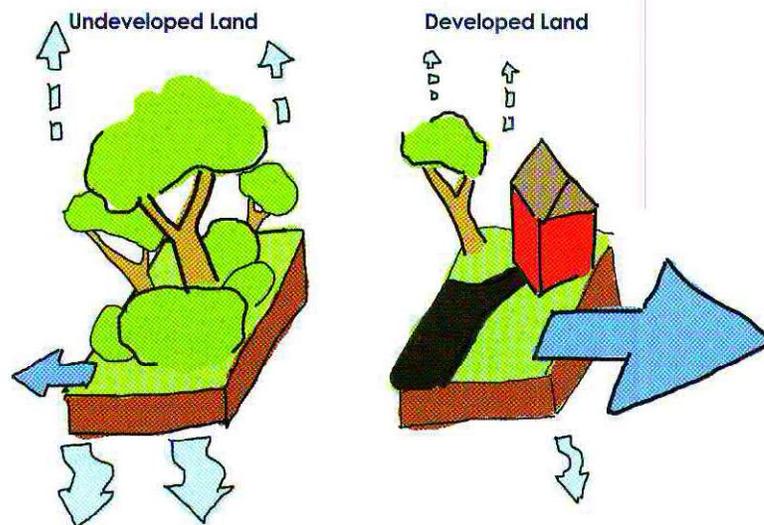
Pages **8 - 22**

# What is Stormwater?

Stormwater is the water that runs off the land after precipitation, either rain or snowmelt. Rain or snow can drain down into the soil (called infiltration), evaporate back into the atmosphere, be used by plants, or flow into streams or water bodies. The water that runs off the land to streams or lakes is referred to as stormwater runoff.

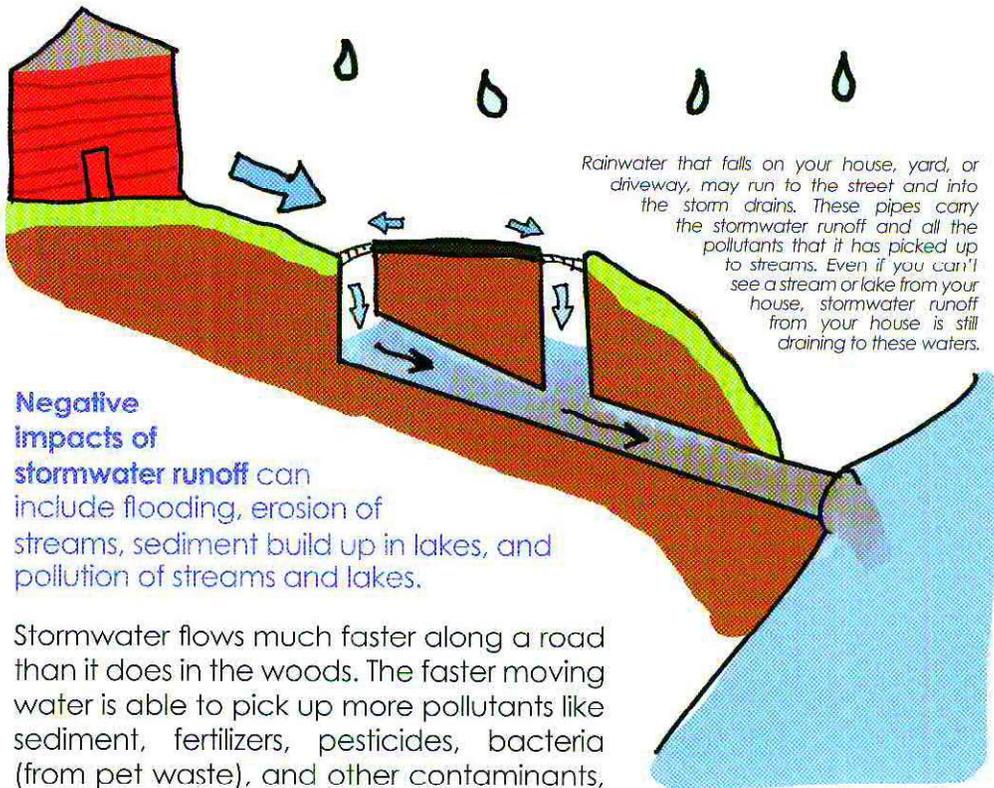
Stormwater runoff happens in natural, undeveloped areas, but typically only for larger storms. For most areas in Pennsylvania that are wooded or natural meadows, it takes about an inch or more of rain to produce runoff.

After development, the natural wooded or meadow areas are replaced with roofs, driveways, sidewalks, and streets. These hard surfaces are called impervious surfaces, and they do not allow water to drain through them, unlike how rain can drain into soil (which is called a pervious surface). When rain falls on impervious surfaces, it runs off rather than infiltrating into the soil or being taken up by vegetation.



When it rains on an undeveloped piece of property, much of the rainwater infiltrates into the soil or is evapotranspired back into the atmosphere. When vegetation is replaced with streets, driveways, sidewalks, houses, and lawns, less rainwater is able to infiltrate or return to the atmosphere, and more of the rain turns into runoff.

# Why should you care about Stormwater Management?



Rainwater that falls on your house, yard, or driveway, may run to the street and into the storm drains. These pipes carry the stormwater runoff and all the pollutants that it has picked up to streams. Even if you can't see a stream or lake from your house, stormwater runoff from your house is still draining to these waters.

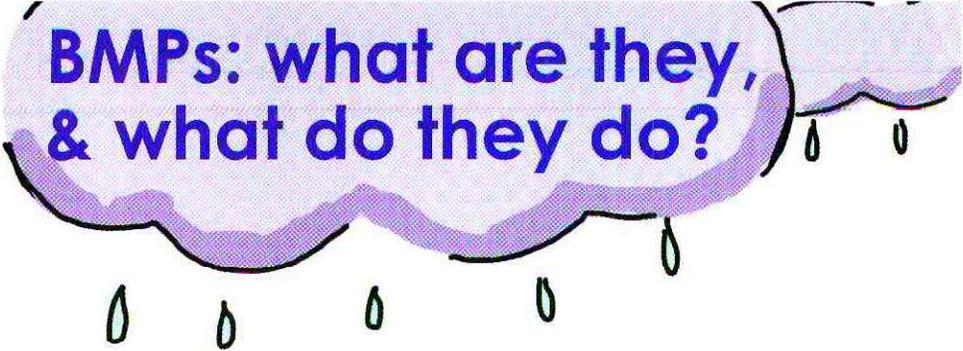
**Negative Impacts of stormwater runoff** can include flooding, erosion of streams, sediment build up in lakes, and pollution of streams and lakes.

Stormwater flows much faster along a road than it does in the woods. The faster moving water is able to pick up more pollutants like sediment, fertilizers, pesticides, bacteria (from pet waste), and other contaminants, and carry the pollutants to streams and lakes.

An increase in the amount of water that runs off after development and how quickly it runs off can cause erosion and instability in streams. Stormwater runoff can cause streams to become wider, deeper, and straighter, losing their natural bends (or meanders) and decreasing habitat for fish and other animals that live in streams. Stormwater from developed areas can also be hotter than natural stream sources. Warmer water holds less dissolved oxygen so stormwater can be harmful to fish like trout that need more oxygen.

It's easy to notice the flooding impacts of large rain storms, but over time, smaller storms can have an impact on streams, too. Across the state, about 95% of the rainfall volume occurs in small events (less than 2.4 to 3.2 inches depending on your location.)

## BMPs: what are they, & what do they do?



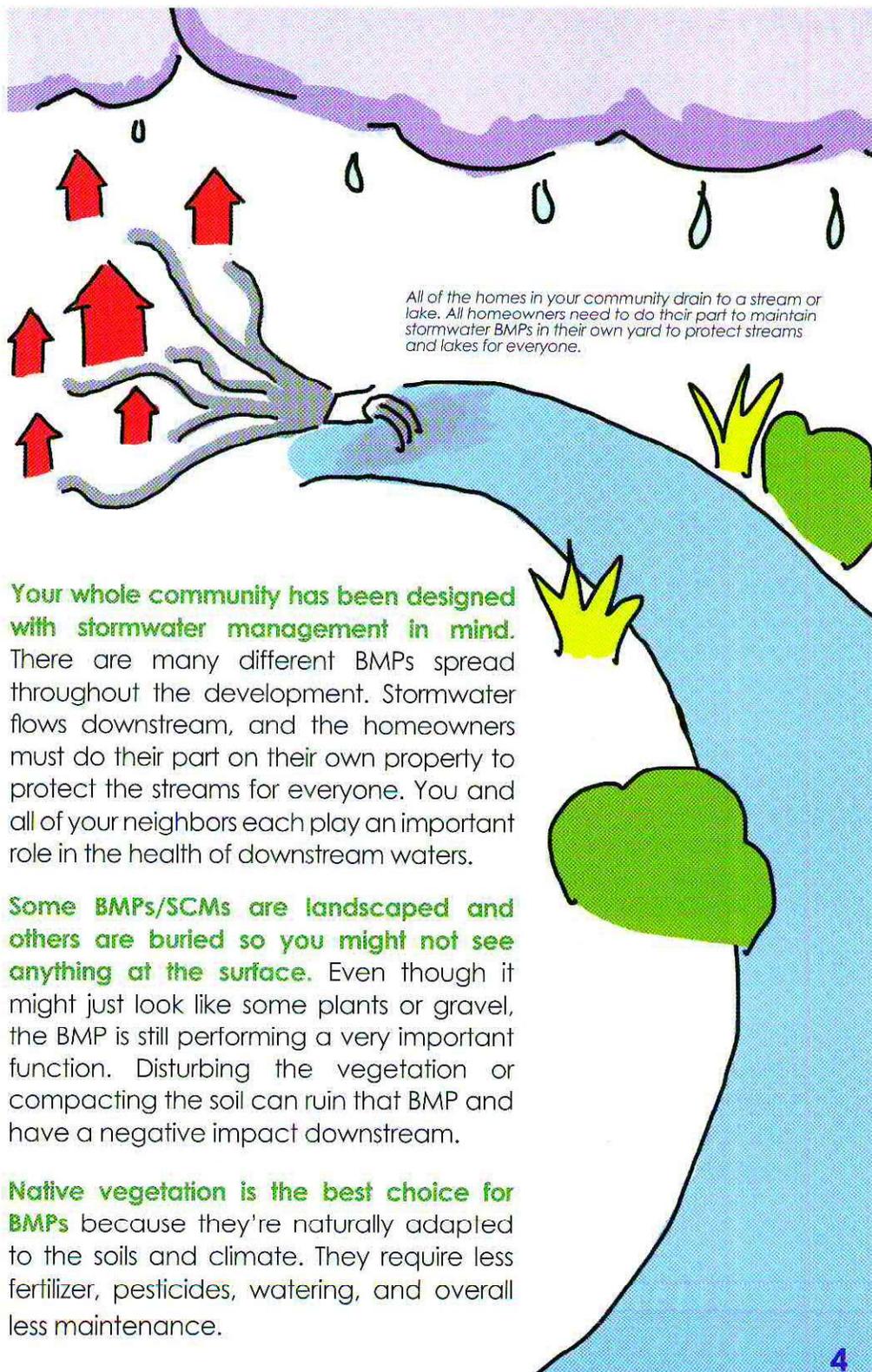
BMP stands for Best Management Practice, and includes designed “things” like detention basins, as well as non-engineered approaches like protecting open space to manage stormwater. SCMs are Stormwater Control Measures, which are engineered facilities that are designed and constructed to manage stormwater. For the most part, the terms BMP and SCM can be used interchangeably.

The goal of BMPs or SCMs is to reduce the impact of development on downstream streams and lakes by:

- △ minimizing the amount of runoff,
- △ slowing down the runoff,
- △ infiltrating runoff,
- △ evapotranspiring runoff, or
- △ filtering runoff.

Many BMPs or SCMs will use vegetation for their ability to use water, put water back into the atmosphere, or help it infiltrate into the ground, rather than allow it to become runoff.

If you've ever walked through a meadow or shaken a tree branch after a rain, you got wet with intercepted water. When it rains, some of the water is trapped on plants. This “intercepted” water never even makes it to the ground where it could be infiltrated. Plants also use water as part of the photosynthesis process where they use the sun's energy to create their own food. This water used by plants is called evapotranspiration. Larger plants with broader leaves and deeper roots like trees, shrubs, or decorative grasses will intercept and evapotranspire more water than a grass lawn.



*All of the homes in your community drain to a stream or lake. All homeowners need to do their part to maintain stormwater BMPs in their own yard to protect streams and lakes for everyone.*

**Your whole community has been designed with stormwater management in mind.**

There are many different BMPs spread throughout the development. Stormwater flows downstream, and the homeowners must do their part on their own property to protect the streams for everyone. You and all of your neighbors each play an important role in the health of downstream waters.

**Some BMPs/SCMs are landscaped and others are buried so you might not see anything at the surface.**

Even though it might just look like some plants or gravel, the BMP is still performing a very important function. Disturbing the vegetation or compacting the soil can ruin that BMP and have a negative impact downstream.

**Native vegetation is the best choice for BMPs**

because they're naturally adapted to the soils and climate. They require less fertilizer, pesticides, watering, and overall less maintenance.

# Stormwater Regulations



When a property is developed, the developer must incorporate stormwater management facilities. He/she must design **Erosion and Sediment Control (E&S) BMPs** that are used during construction to prevent soil from running off the site and polluting downstream waters. When the construction period is over, **Post-Construction Stormwater Management (PCSM) BMPs** will have been constructed, and the developer must provide a way for these BMPs to be properly maintained over time.

When the developer finished the project, they will have turned over the maintenance responsibilities for the BMPs to someone else, which could be the property owner, a nonprofit organization, the local municipality, an authority, a private corporation, or another person. The developer will also have produced a plan that must include drawings, which show the location and dimensions of each PCSM BMP. Accompanying this PCSM Plan will be a long-term operation and maintenance schedule, which provides for inspection of PCSM BMPs, including the repair, replacement, or other routine maintenance of the PCSM BMPs to ensure proper function and operation. This maintenance program must describe how access to the PCSM BMPs will be achieved.

The developer will be following the rules of **PA Code, Title 25, Chapter 102**, which defines rules for both Erosion and Sediment Control, and Post Construction Stormwater Management. These regulations can be found by going to PA Code online at [www.pacode.com](http://www.pacode.com) and then browsing to Title 25, Chapter 102.

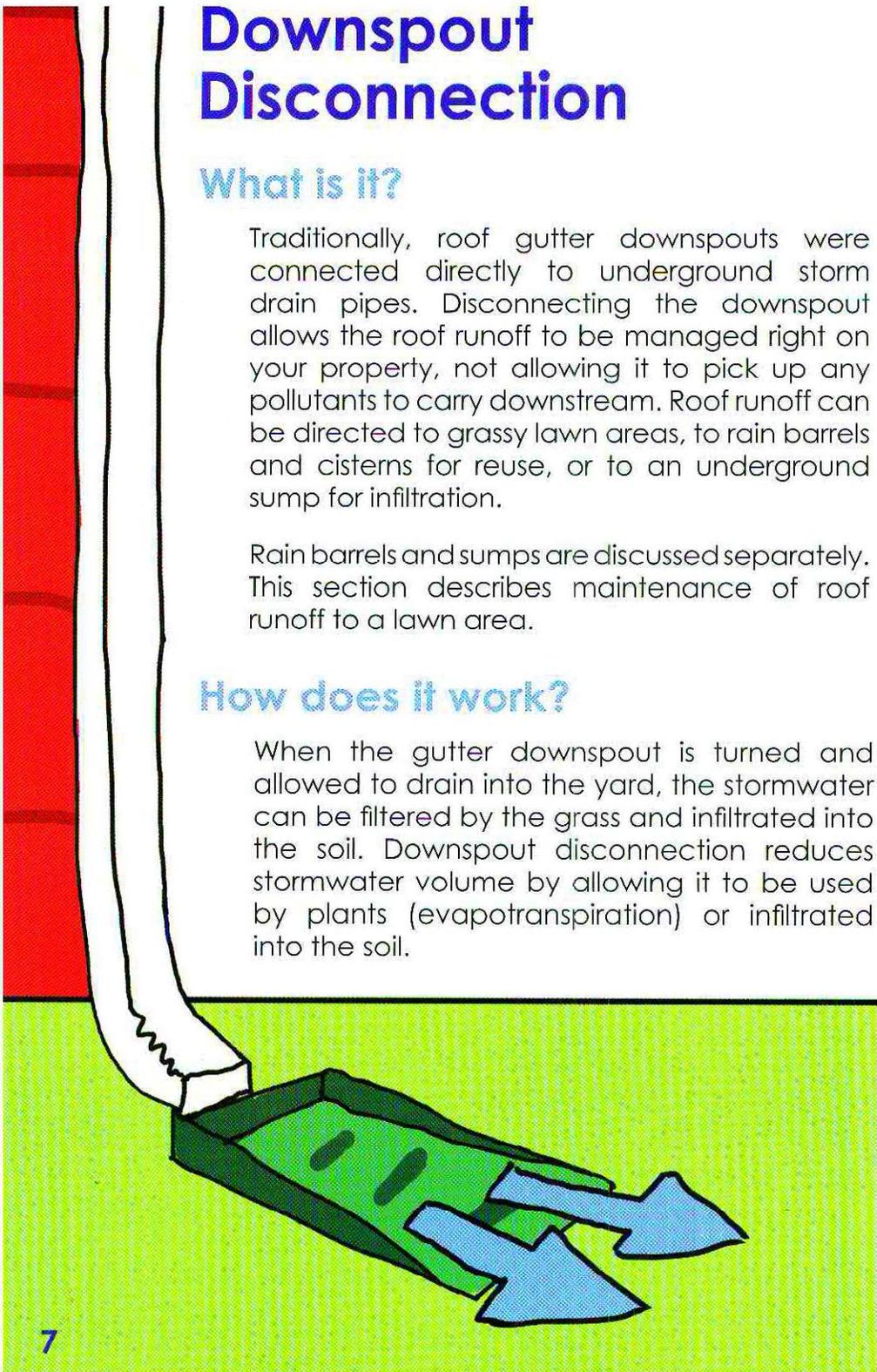
## What's the Homeowner's Legal Responsibility?

If your home was constructed after 2010, and your property contains any Post Construction Stormwater Management (PCSM) BMPs, the developer will have recorded details about them with your property's deed. State regulation requires that the information recorded with the deed identifies the PCSM BMP, provides for access to the BMPs for maintenance and inspection purposes, and provides notice that the responsibility for long-term operation and maintenance of the PCSM BMP is a legal requirement that runs with the property. You can view your property records at the Recorder of Deeds office at your county courthouse to determine if you are responsible for the maintenance of any BMPs.

If you are the person designated as the responsible-party for operation and maintenance, you must ensure that the BMPs continue to function properly and follow the maintenance schedule provided by the developer and recorded with your deed. The responsibility to maintain the BMPs includes the cost of plants or material for upkeep or replacement. You should have been provided a maintenance plan by the developer if you're the first owner of the home. If your home was constructed after 2010, you may need to check the property records for information if you're not the first owner and didn't receive the maintenance plan at the time of purchase.

If you're not doing the necessary maintenance and required documentation, you may be billed by your municipality for the cost of having someone else do the work, or you could face a summary offense and daily fine until the maintenance work is complete.

If responsibility has been transferred to someone else, you need to provide access for maintenance and inspection. You also must leave any BMPs in place. For example, you can't remove the vegetation of a rain garden, level it, and plant lawn grass.



# Downspout Disconnection

## What is it?

Traditionally, roof gutter downspouts were connected directly to underground storm drain pipes. Disconnecting the downspout allows the roof runoff to be managed right on your property, not allowing it to pick up any pollutants to carry downstream. Roof runoff can be directed to grassy lawn areas, to rain barrels and cisterns for reuse, or to an underground sump for infiltration.

Rain barrels and sumps are discussed separately. This section describes maintenance of roof runoff to a lawn area.

## How does it work?

When the gutter downspout is turned and allowed to drain into the yard, the stormwater can be filtered by the grass and infiltrated into the soil. Downspout disconnection reduces stormwater volume by allowing it to be used by plants (evapotranspiration) or infiltrated into the soil.

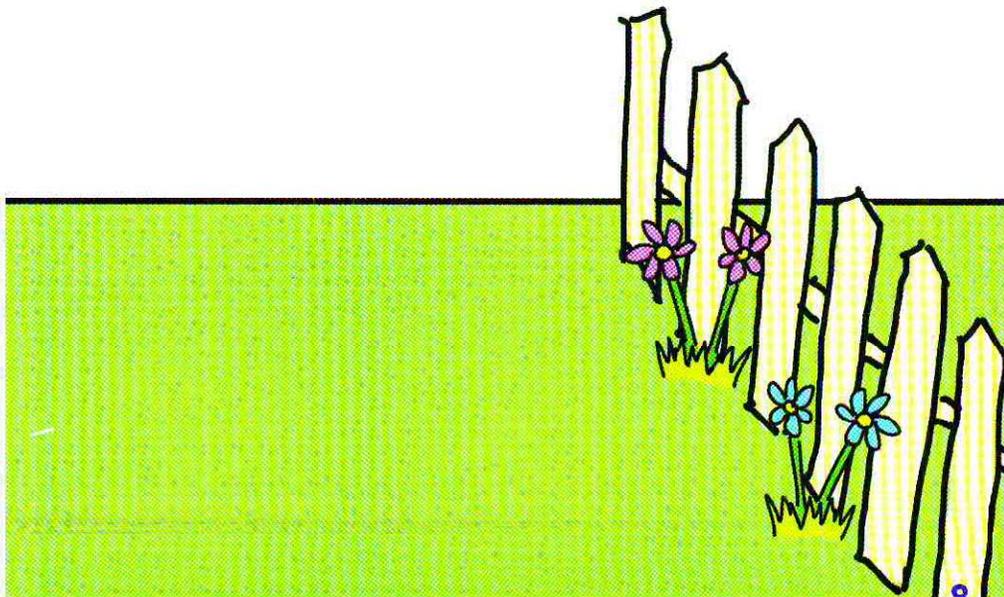
## How does a Homeowner maintain it?

### Regularly:

- Maintenance for a downspout draining to a lawn area is generally part of the typical yard maintenance.
- Mow the lawn in this area at the same time interval that the rest of the yard is mowed.
- Check for bare spots and reseed if needed.

### Additional Information:

- △ A splash guard or small pile of rocks may be needed at the location where the water leaves the drain to slow the water down and prevent erosion.
- △ The downspout could be directed to a rain garden rather than the lawn, in which case the Rain Garden maintenance (page 9) should be followed.



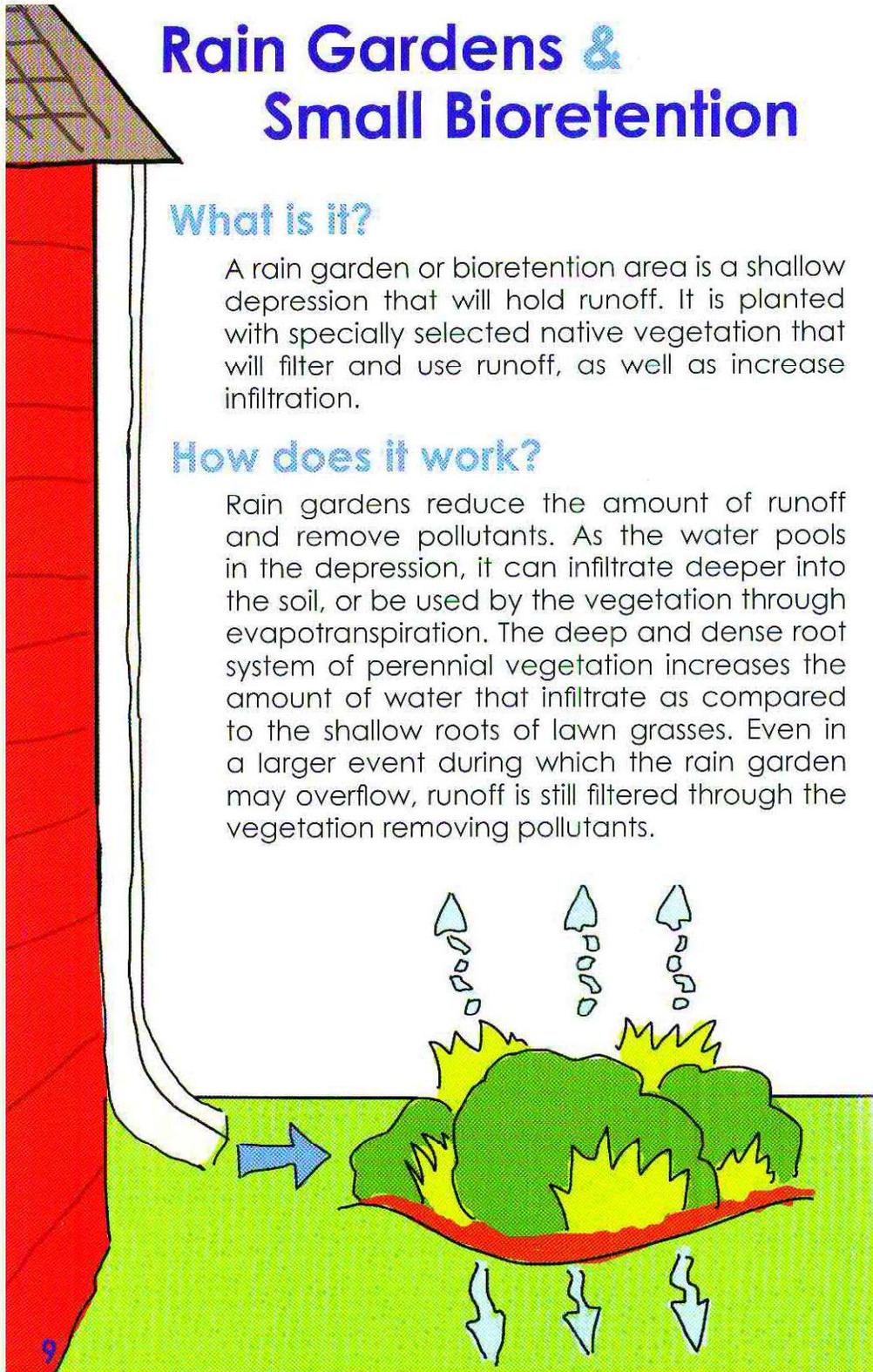
# Rain Gardens & Small Bioretention

## What is it?

A rain garden or bioretention area is a shallow depression that will hold runoff. It is planted with specially selected native vegetation that will filter and use runoff, as well as increase infiltration.

## How does it work?

Rain gardens reduce the amount of runoff and remove pollutants. As the water pools in the depression, it can infiltrate deeper into the soil, or be used by the vegetation through evapotranspiration. The deep and dense root system of perennial vegetation increases the amount of water that infiltrate as compared to the shallow roots of lawn grasses. Even in a larger event during which the rain garden may overflow, runoff is still filtered through the vegetation removing pollutants.



## How does a Homeowner maintain it?

### Twice a year:

- Vegetation needs to be checked to make sure that it's healthy. Any bare spots need to be replanted.
- Check the inflow area to make sure that there isn't any sediment building up. Remove any accumulated sediment.
- Mulch should be re-spread when erosion is evident and be replenished as needed.

### Annually:

- Perennial plants should be cut back if needed by species type and any dead vegetation should be removed at the end of the growing season.

### Every Three Years:

- Apply mulch in the spring as needed to cover soil. Mulch should be 1-3 inches deep. Do not use mulch to "fill-in" the depression of the rain garden. That depression area is needed for stormwater management.

### Additional Information:

- △ While vegetation is being established in the first few years, weeding may be required.
- △ If any plants die, they need to be replaced. Refer to the Post-Construction Stormwater Management Plan for what types of plants to use.
- △ During periods of extended drought, bioretention areas may require watering.
- △ Rain gardens should be checked after large rain storms to make sure that they are draining within 72 hours. If water remains in the rain garden longer than 72 hours, you could have mosquito problems, and should contact your county conservation district for guidance on fixing or replacing your rain garden.

# Rain Barrels & Cisterns

## What is it?

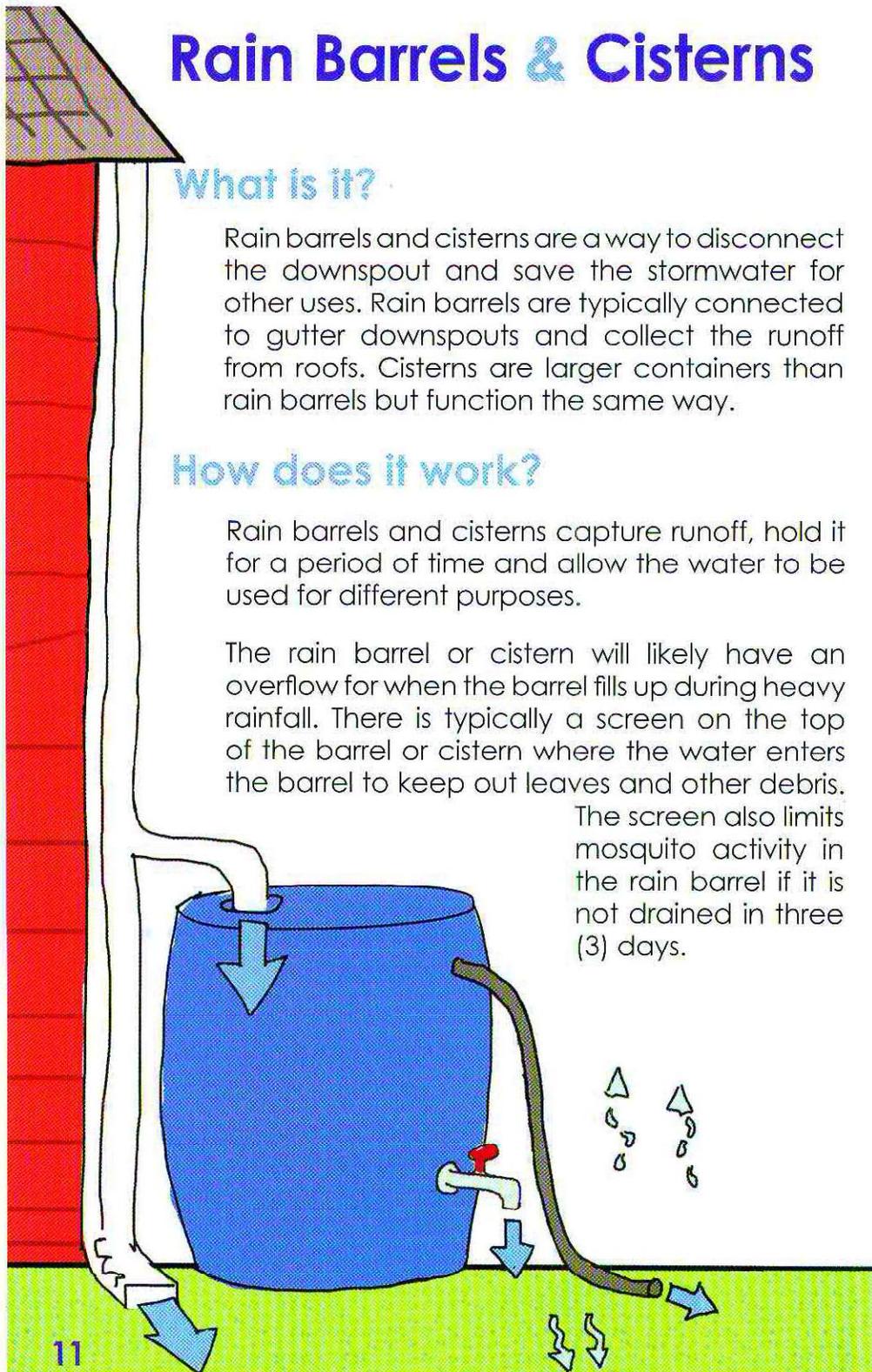
Rain barrels and cisterns are a way to disconnect the downspout and save the stormwater for other uses. Rain barrels are typically connected to gutter downspouts and collect the runoff from roofs. Cisterns are larger containers than rain barrels but function the same way.

## How does it work?

Rain barrels and cisterns capture runoff, hold it for a period of time and allow the water to be used for different purposes.

The rain barrel or cistern will likely have an overflow for when the barrel fills up during heavy rainfall. There is typically a screen on the top of the barrel or cistern where the water enters the barrel to keep out leaves and other debris.

The screen also limits mosquito activity in the rain barrel if it is not drained in three (3) days.



## How does a Homeowner maintain it?

### After Rain Events:

- Clean the screen by removing any leaves that could block the flow of water into the barrel/cistern.
- Use the water in the barrel/cistern so that it's empty and ready to collect runoff from the next rain.

### Annually:

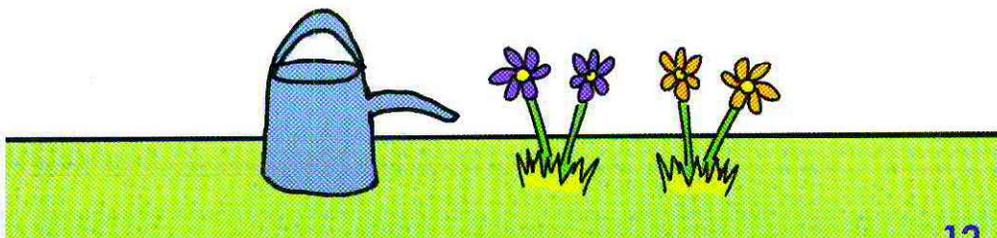
- Clean gutters to remove leaf debris that could clog the barrel/cistern.

### ❄ Special Winter Needs:

- In the fall, empty the rain barrel/cistern before the water could freeze.
- Rinse out the barrel/cistern to remove any accumulated sediment.
- Do not reconnect the barrel/cistern until spring. During the winter months, connect a piece of flexible gutter to the end of the downspout and direct the outlet to a grassy area of the yard.

### Additional Information:

- ⚠ **Rain barrels and cisterns are great (and economical!) water sources for watering plants.** The spigot can fill a watering can or be connected to a standard garden or irrigation hose.
- ⚠ **Safety note!** The water in a rain barrel or cistern is not safe for consumption without prior treatment.



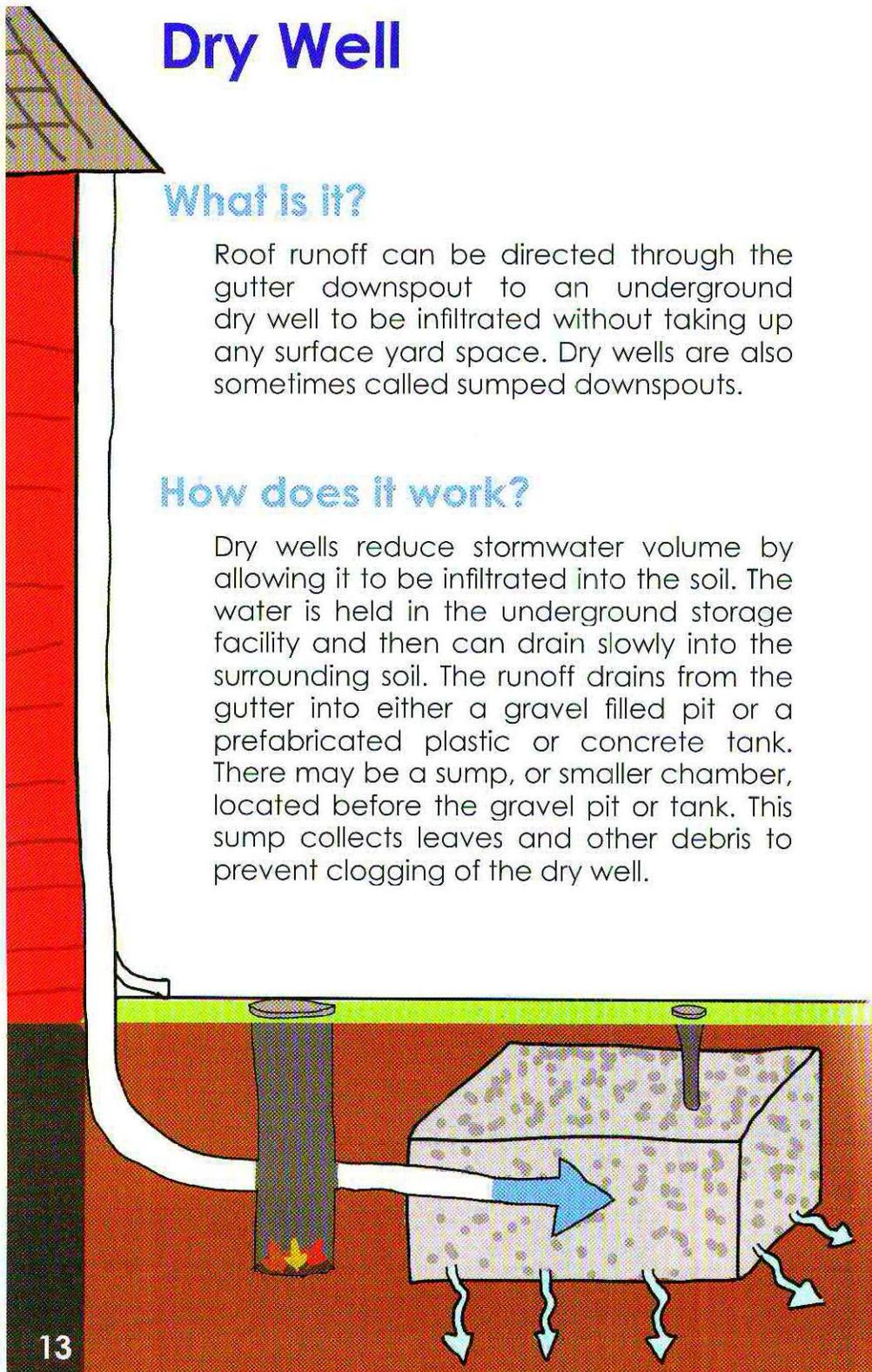
# Dry Well

## What Is It?

Roof runoff can be directed through the gutter downspout to an underground dry well to be infiltrated without taking up any surface yard space. Dry wells are also sometimes called sumped downspouts.

## How does it work?

Dry wells reduce stormwater volume by allowing it to be infiltrated into the soil. The water is held in the underground storage facility and then can drain slowly into the surrounding soil. The runoff drains from the gutter into either a gravel filled pit or a prefabricated plastic or concrete tank. There may be a sump, or smaller chamber, located before the gravel pit or tank. This sump collects leaves and other debris to prevent clogging of the dry well.



## How does a Homeowner maintain it?

### After storms with larger than 1 inch of rain:

- There is typically a screen where the downspout enters the dry well. Clean the screen by removing any leaves that could block the flow of water into the dry well.
- Inspect the sump for accumulation of sediment, trash, or any other material. Remove any material that is in the sump to prevent it from clogging the dry well.

### Quarterly:

- There should be an above ground cap that allows access to the dry well. Four times a year, view down the access pipe to make sure that the dry well is not accumulating sediment, trash, or other material. Over time the accumulation of sediment or trash may be vacuumed or may require excavation. Contact your county conservation district for guidance on cleaning out your dry well.

### Annually:

- Clean gutters to keep leave debris out of the sump and dry well.

### Additional Information:

- △ After large rain events, check the access pipe to ensure that the dry well is draining within 72 hours. If the drain times are more than 72 hours, the dry well may need to be cleaned out or replaced. Contact your county conservation district for guidance on fixing or replacing your dry well.

# Infiltration Trench

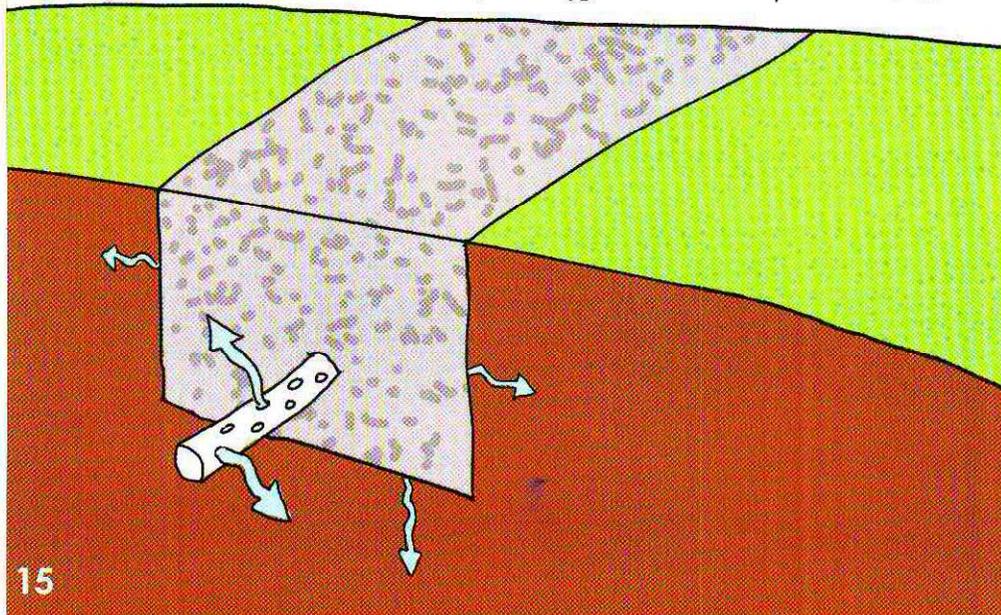
## What is it?

Infiltration trenches are essentially leaky pipes in a stone-filled trench. Surface runoff or gutter downspouts can be directed to infiltration trenches.

## How does it work?

An infiltration trench contains a perforated pipe in a stone trench. It can be thought of as the opposite of a French drain. In a French drain, water flows from the soil into a perforated pipe and away from the wet spot. For an infiltration trench, stormwater runoff is directed into a perforated pipe that is surrounded by gravel. The water then drains out of the perforated pipe into the trench.

During small rain events with a small amount of runoff, stormwater flows out of the pipe through the perforations into the gravel and then into the soil. During larger storms that produce more runoff, some stormwater will be stored in the stone trench, but water will also flow through the pipe to a larger BMP or SCM. Runoff that moves into the soil can help recharge aquifers (ground water) and wells.



## How does a Homeowner maintain it?

### Protection:

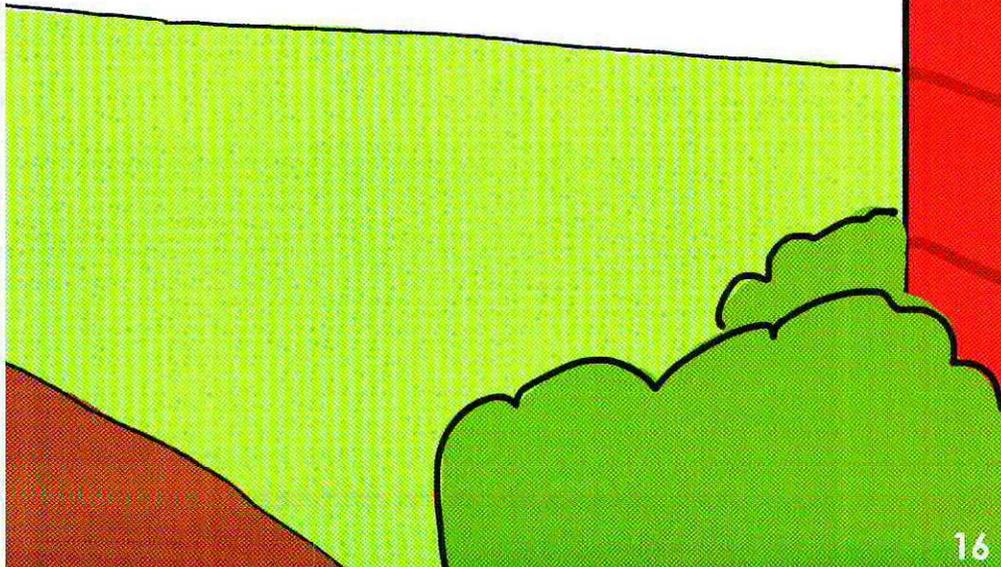
- You should be careful to not regularly drive over an infiltration trench so as to not cause compaction or crush the perforated pipe.

### Annually:

- If the trench has an access pipe, it should be checked annually to make sure that the trench isn't clogged.

### Additional Information:

- △ Ponding of water on the surface over the trench indicates that there is a problem with the trench and you should contact your county conservation district for guidance on fixing or replacing the infiltration trench.



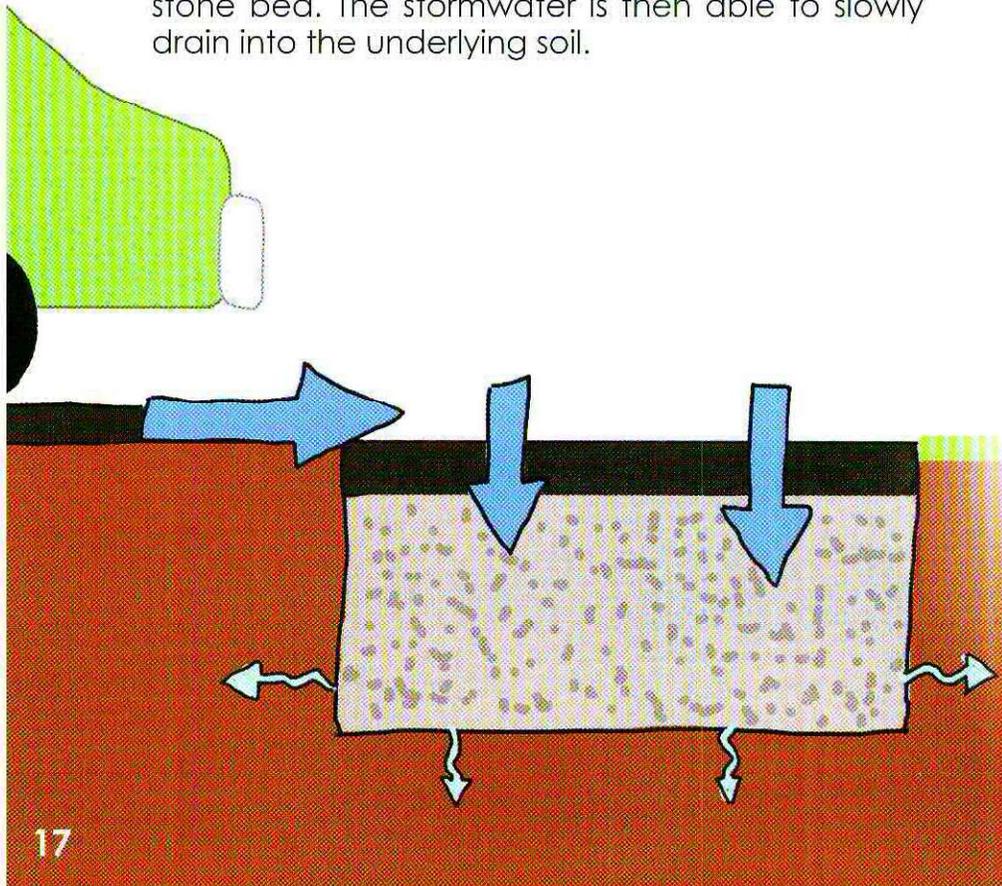
# Pervious Pavements

## What is it?

Pervious pavements are a modification to typical pavement that allow water to drain through the surface rather than run off it. Pervious pavements include porous asphalt or porous concrete which are poured over a gravel bed, or porous pavers on uncompacted soil.

## How does it work?

Stormwater drains through the pervious surface and is temporarily held in the voids spaces of the stone bed. The stormwater is then able to slowly drain into the underlying soil.



# How does a Homeowner maintain it?

## Protection:

- The key to maintaining pervious pavements is to prevent the surface from getting clogged.
- Planted areas near the pervious pavement should be well maintained to prevent soil from washing into the pavement. If you see a bare spot or eroded area, it should be replanted to prevent soil wash off.
- If soil does wash onto the pavement, it should be immediately cleaned off before it gets ground into the surface.
- It is very important to never apply a sealing coat. A sealing coat over a pervious asphalt driveway or walkway will clog all the openings and prevent water from draining through it.

## Biannually:

- The surface needs to be vacuumed twice a year with a commercial cleaning unit to remove fine particles from the surface.

## \* Special Winter Needs:

- Sand or cinders should not be used with pervious pavement because the small particles will clog the surface.
- Snow shoveling and plowing is fine, but be careful not to scrape the surface.
- Salt can be used on pervious pavements, but nontoxic, organic deicers or magnesium chloride-based products are better than sodium chloride.

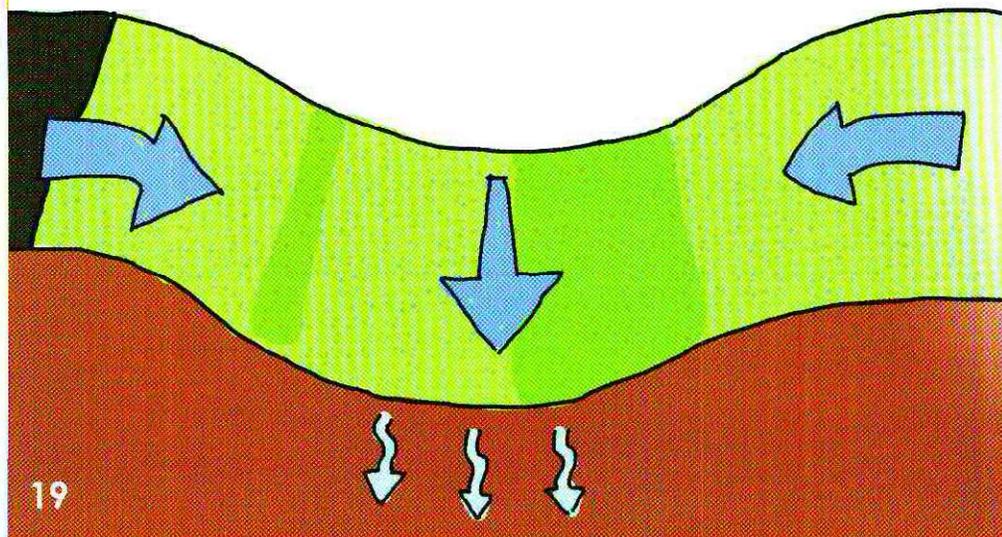
# Vegetated Swale

## What is it?

A vegetated swale is a wide, shallow channel, planted with grass or shrubs. A swale conveys runoff like a ditch, but a swale is much shallower and wider than a typical drainage ditch. If the swale is located on a steeper slope, rocks may be used to prevent erosion.

## How does it work?

The wide, shallow design of swales allows runoff to flow more slowly than it would in a narrow, deep ditch or in a pipe. Vegetated swales slow runoff, promote infiltration, and filter pollutants and sediment in the process of conveying runoff. They can be used instead of conventional curb and gutter.



## How does a Homeowner maintain it?

### Regularly:

- If the vegetation in the swale is turf grass, mow the swale when mowing the rest of the yard. Mow only when swale is dry to avoid rutting.
- After rain events look for erosion, damage to vegetation, or sediment accumulation. Reseed bare areas and remove sediment.

### Twice a Year:

- If the vegetation in the swale is larger perennial shrubs and bushes, check to make sure that it's healthy. Any bare spots need to be replanted.
- Look for any sediment build-up. Remove any accumulated sediment.

### Annually:

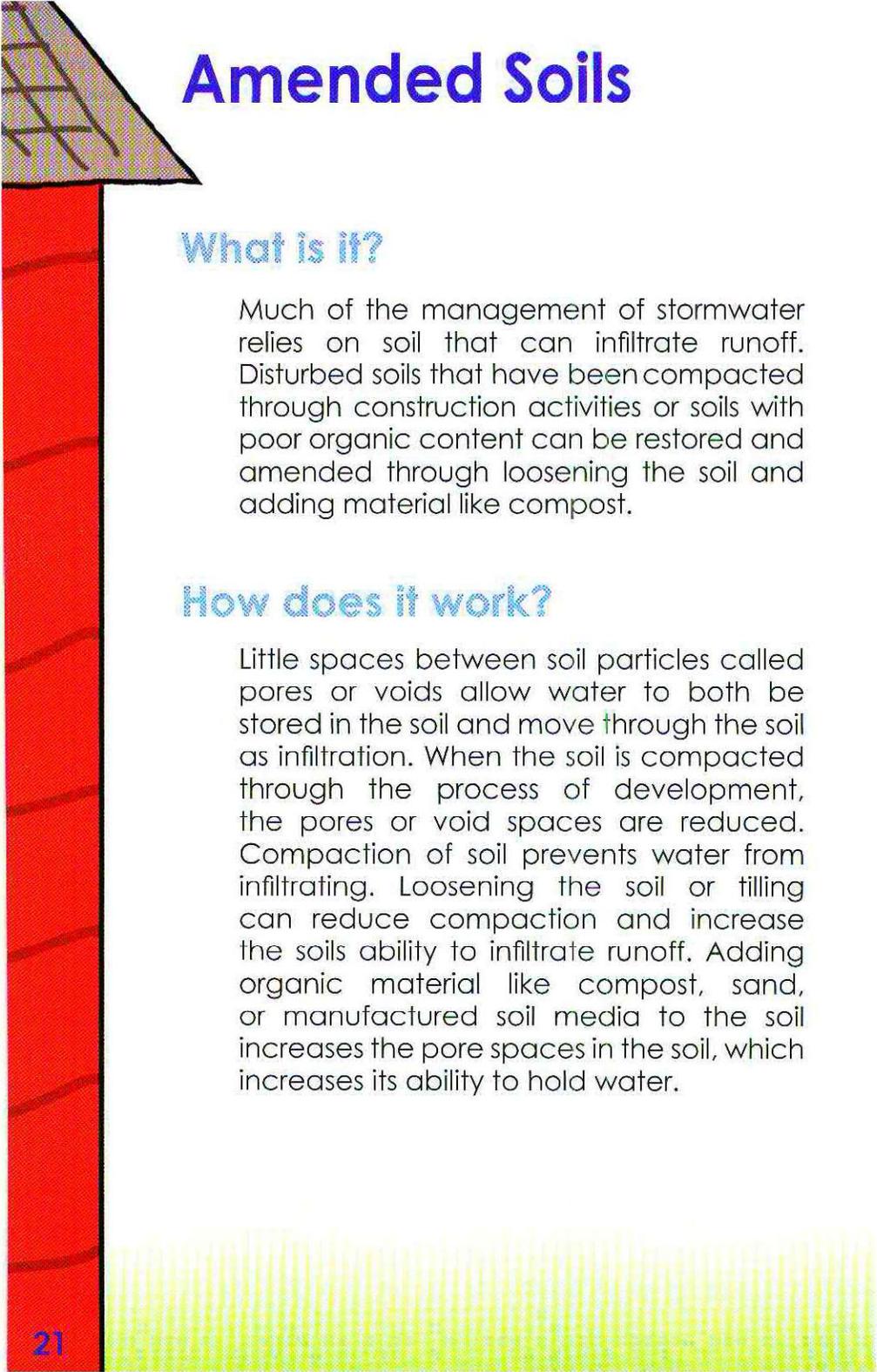
- Perennial plants should be cut back if needed by species type, and any dead vegetation should be removed at the end of the growing season.

### Additional Information:

- While vegetation is being established in the first few years, weeding may be required.
- Watering may be necessary during dry periods.

### ❄️ Special Winter Needs:

- After the spring melt, remove any accumulated antifskid material like sand. Replace any damaged vegetation.
- If driveway or sidewalk runoff is directed to the swale, use nontoxic, organic deicing agents or magnesium chloride-based liquid products (rather than sodium chloride-based salts).



# Amended Soils

## What is it?

Much of the management of stormwater relies on soil that can infiltrate runoff. Disturbed soils that have been compacted through construction activities or soils with poor organic content can be restored and amended through loosening the soil and adding material like compost.

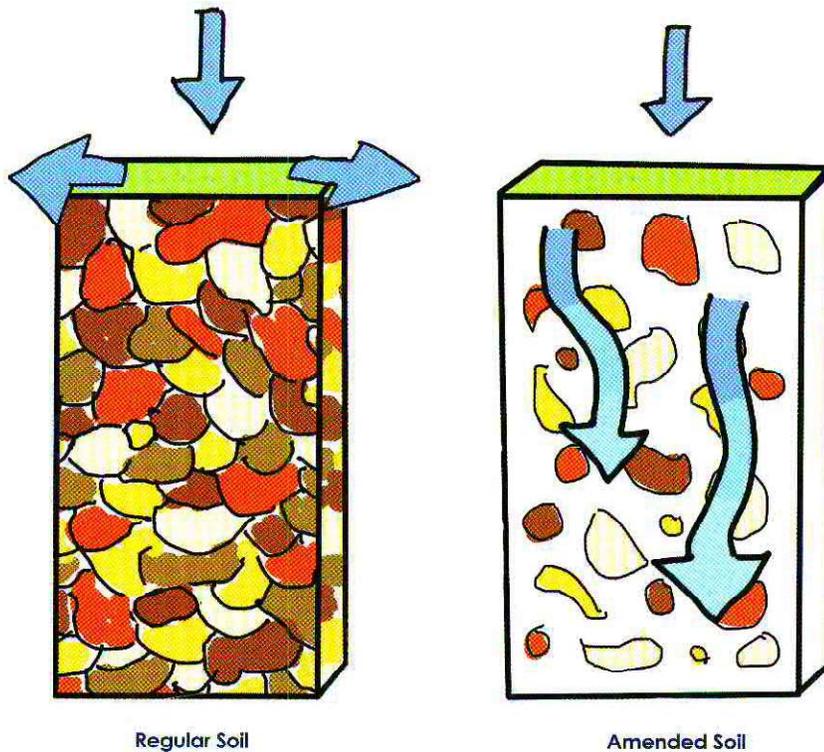
## How does it work?

Little spaces between soil particles called pores or voids allow water to both be stored in the soil and move through the soil as infiltration. When the soil is compacted through the process of development, the pores or void spaces are reduced. Compaction of soil prevents water from infiltrating. Loosening the soil or tilling can reduce compaction and increase the soil's ability to infiltrate runoff. Adding organic material like compost, sand, or manufactured soil media to the soil increases the pore spaces in the soil, which increases its ability to hold water.

## How does a Homeowner maintain it?

### Protection:

- The key to maintaining amended soils is to protect and preserve them.
- Compaction of the soil should be avoided. Don't use as an extra parking area or storage for a recreational vehicle.
- Amended soils that are a BMP can't be removed. For example, the area cannot be converted to a patio or other use that would prevent stormwater infiltration.



*There needs to be air spaces in between soil particles for water to be infiltrated. Amended soils have increased air space, but these air spaces are lost if the soil is compacted by heavy equipment or vehicle parking.*

## **Funding Acknowledgements**

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## **Contact Information**

### **Department of Environmental Protection Headquarters**

Rachel Carson State Office Building  
400 Market Street, Harrisburg, PA 17101  
Phone: (717) 783-2300

### **Northeast Regional Office**

2 Public Square, Wilkes-Barre, PA 18711-0790  
24 Hour Emergency Number: (570) 826-2511

### **North-central Regional Office**

208 West Third Street, Suite 10, Williamsport, PA 17701-6448  
Main Number & 24 Hour Emergency Number: (570) 327-3636

### **Northwest Regional Office**

230 Chestnut Street, Meadville, PA 16335  
Business Hours: (814) 332-6945  
After Hours: (800) 373-3398

### **Southeast Regional Office**

2 East Main Street, Norristown, PA 19401  
Main and 24 Hour Emergency Number: (484) 250-5900

### **South-central Regional Office**

909 Elmerton Avenue, Harrisburg, PA 17110  
Business Hours: (717) 705-4700  
24 Hour Emergency Number: (866) 825-0208

### **Southwest Regional Office**

400 Waterfront Drive, Pittsburgh, PA 15222-4745  
24 Hour Emergency Number: (412) 442-4000

## **Additional Resources**

- ♠ **Landscaping with Native Plants.**  
[www.dcnr.state.pa.us/forestry/plants/nativeplants/](http://www.dcnr.state.pa.us/forestry/plants/nativeplants/)
- ♠ **PA Stormwater Best Practices Manual (2006).**  
[www.elibrary.dep.state.pa.us/dsweb/View/Collection-8305](http://www.elibrary.dep.state.pa.us/dsweb/View/Collection-8305)

# MCM #2 Appendix

- **MCM #2 Project Plan**
- **BMP 2.2 Attachments**
  - Publish Request.PNG
- **BMP 2.3 Attachments**
  - Council Video of Meetings and Events.PNG
  - GBSWA Website Video Links
  - 2019-4-22 How Much Does MS4 Cost - Fees.pdf
  - 2019-4-8 How Does MS4 Work.pdf
  - 2019-3-25 Why (Law behind MS4).pdf
  - 2019-6 Engineer's Report.pdf
  - 2019-5 Engineer's Report.pdf
  - 2019-4 Engineer's Report.pdf
  - 2019-3 Engineer's Report.pdf
  - 2019-2 Engineer's Report.pdf
  - 2019-1 Engineer's Report.pdf
  - 2018-12 Engineer's Report.pdf
  - 2018-11 Engineer's Report.pdf
  - 2018-10 Engineer's Report.pdf
  - 2018-9 Engineer's Report.pdf
  - 2018-8 Engineer's Report.pdf
  - 2018-7 Engineer's Report.pdf

# MCM #2 Project Plan

- BMP 2.1

Description:

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

Action Plan:

The PIPP plan will be reviewed annually, at a minimum, and revised when deemed necessary. Public input opportunities include:

(1) Borough Council Meetings / Gettysburg Storm Water Authority (GBSWA) Meetings: MS4 is a standing item on the Borough Engineer's monthly report to Council which is reviewed at each meeting. GBSWA meetings are also open to the public.

(2) Annual Report Publication: A hard copy will be available in the Borough office for public review.

- BMP 2.2

Description:

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.

Action Plan:

All ordinances are advertised and discussed at Borough Council meetings prior to adoption. Ordinances will also be discussed at GBSWA meetings. The public is given the opportunity to provide comment at these public meetings.

- BMP 2.3

Description:

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

Action Plan:

(1) Illicit Discharge Reporting: The Borough Secretary receives all calls coming into the Borough. Complaints are routed to the appropriate individuals.

(2) Public Meetings: The Borough will hold at least one public meeting per year to review the status of their MS4 program with the public. The meetings will typically be scheduled during a Borough Council meeting. Video replays of all Council and GBSWA meetings are available for the public viewing on the Borough's website. MS4 is a standing item on the Borough Engineer's monthly report which is reviewed at Council meetings.

EDWARD G. PUHL  
HAROLD A. EASTMAN, JR.  
RICHARD E. THRASHER  
ADAM D. BOYER

**PUHL, EASTMAN & THRASHER**  
ATTORNEYS AT LAW  
220 BALTIMORE STREET  
GETTYSBURG, PENNSYLVANIA 17325

EDWARD B. BULLEIT (1914-2001)  
PHONE (717) 334-2159  
FAX (717) 334-0336  
HAROLD.EASTMAN@COMCAST.NET

November 16, 2018

The Gettysburg Times  
Attention: Debi Orndorff  
P.O. Box 3669  
Gettysburg, PA 17325

Sent via e-mail

**Re: Borough of Gettysburg/Notice of Special Meeting**

Dear Debi:

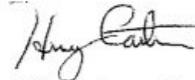
I have enclosed herewith a Notice of Special Meeting which I would request be published one (1) time in the public notices/classifieds section of the Gettysburg Times. I would request that the notice be published so as to appear no later than the Wednesday, November 21, 2018 edition of the newspaper.

If you would, please forward your invoice and proof of publication to Sara L. Stull, Borough Secretary, 59 East High Street, Gettysburg, PA 17325.

If you should have any questions regarding the foregoing, please do not hesitate to contact me. I would like to thank you for your assistance in this matter.

Very truly yours,

**PUHL, EASTMAN & THRASHER**



Harold A. Eastman, Jr.

HAE/md  
Enclosure

cc: Charles R. Gable, MPA, Borough Manager  
Sara L. Stull, Borough Secretary  
Chad M. Clabaugh, P.E., Borough Engineer  
Adam D. Boyer, Esquire  
Borough Council of the Borough of Gettysburg  
Theodore H. Streeter, Mayor

kwiktag® legal 709 199 016



# Council Video of Meetings and Events.PNG

Video of Meetings and Events | X +

gettyburgpa.gov/video-meetings-and-events



GETTYSBURG Pennsylvania ... HISTORIC CROSSROADS

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Home » Government » Borough Council

## Video of Meetings and Events

### 2019 - Borough Council Meetings

January 14, 2019 - Business Meeting	January 28, 2019 - Work Session	February 11, 2019 - Business Meeting
February 25, 2019 - Work Session	March 11, 2019 - Business Meeting	March 25, 2019 - Work Session
April 8, 2019 - Business Meeting	April 22, 2019 - Work Session	May 13, 2019 - Business Meeting
May 28, 2019 - Work Session	June 10, 2019 - Business Meeting	June 24, 2019 - Work Session
July 8, 2019 - Business Meeting	July 22, 2019 - Work Session	August 12, 2019 - Business Meeting
August 26, 2019 - Work Session	September 9, 2019 - Business Meeting	September 23, 2019 - Work Session
October 15, 2019 - Business Meeting	October 28, 2019 - Work Session	November 12, 2019 - Business Meeting
November 25, 2019 - Work Session	December 9, 2019 - Business Meeting	HARB - Historic Preservation Awards (Wednesday, May 15, 2019)

### 2018 - Borough Council Business Meetings

January 8, 2018	February 12, 2018	April 9, 2018	June 11, 2018	August 13, 2018	October 9, 2018	December 10, 2018
January 16, 2018 - Special Joint Meeting Between the Planning Commission and the Borough Council	March 12, 2018	May 14, 2018	July 9, 2018	September 10, 2018	November 13, 2018	

Town Hall Meeting - Hosted by Council Member Wesley Heyser (Thursday, June 7, 2018)  
Town Hall Meeting - Hosted by Council Member Charles Strauss (Thursday, October 25, 2018)

### 2017 - Borough Council Business Meetings

# GBSWA Website Video Links

GETTYSBURG Pennsylvania ... HISTORIC CROSSROADS

Home » Authorities, Boards, & Commissions (ABCs)

## Gettysburg Borough Storm Water Authority (GBSWA)

a.k.a. MS4

### 2019 Videos and Presentations of the GBSWA

(Click Link to be directed to Presentation)

Power Point Presentations	Video Link
<a href="#">What is MS4? How did we get here?</a>	Monday, March 25, 2019
<a href="#">How Does MS4 Work?</a>	Monday, April 8, 2019
<a href="#">How much does MS4 cost? Fees?</a>	Monday, April 15, 2019
	Monday, April 22, 2019
	Monday, April 29, 2019
	Monday, May 6, 2019
	Monday, May 13, 2019
	Monday, June 10, 2019
<a href="#">MS4 Informational Video - Produced by Community TV</a>	Monday, July 8, 2019

Hours of Operation:  
**Office Hours**  
M-F 8:00 AM to 5:00 PM  
**Borough Building Closed:**  
New Year's Day, Martin Luther King Jr. Day, President's Day, Good

Polluted stormwater runoff is commonly transported through municipal separate storm sewer systems (MS4s), and then often discharged, untreated, into local water bodies.

An MS4 is a conveyance or system of conveyances that is:

### News

D-Day Commemoration in Gettysburg

Gettysburg Borough Certified as a Gold Sustainable Community

PennDOT Baltimore St. Project

Haul-Nol Gettysburg, citizens for common-sense restrictions on tractor-trailer traffic.

Help Us Revise the Sidewalk Ordinance

[View all](#)

### Gettysburg Borough Storm Water Authority

# **GETTYSBURG BOROUGH STORMWATER AUTHORITY (GBSWA)**

**3 PART SERIES ON PUBLIC EDUCATION AND OUTREACH**

## **PART 3: HOW MUCH DOES MS4 COST? FEES?**

**PRESENTED BY:**

**CHAD M. CLABAUGH, P.E.**



**C.S. Davidson, Inc.**

*Excellence in Civil Engineering*

# **RECAP OF PART ONE HOW DID WE GET HERE?**

- **Federal EPA expanded the CWA in 1972**
  - **NPDES**
- **PA DEP - Pennsylvania Clean Streams Law**
  - **PAG-13 - Authorization to discharge under the NPDES General Permit for Stormwater Discharges from Small MS4**
  - **2018–2023 MS4 General Permit**

# RECAP OF PART 1 CONTINUED

## ➤ Consequences:

- Clean Water
- Increased Flooding
- Jeopardize Funding
- Fines

## ➤ Aging Conveyance:

- No easements
- Under/Through Homes and Buildings
- Causing Sink Holes
- Borough has funded repairs through loans



# RECAP OF PART 1 CONTINUED

- **Borough Code doesn't allow for Boroughs to conduct the necessary Stormwater Management Related Services**
  - **House Bill 914 could change that but has yet to be enacted and has other limitations**
- **Gettysburg Council opted to create an Authority under the Municipal Authorities Act 53**
  - **Gives the GBSWA such purposes and powers as set forth in the Authorities Act including, but not limited to, the administration and assessment of related fees in connection with the construction, operation, maintenance and repairs necessary for the implementation and operation of the Borough's municipal separate storm sewer system and any other lawful purpose**

# RECAP OF PART 2 HOW DOES MS4 WORK?

## 2018-2023 GENERAL PERMIT REQUIREMENTS:

- **Notice of Intent (NOI)**
- **Annual Reporting**
- **Six (6) Minimum Control Measures (MCMs)**
  - **MCM #1 - Public Education and Outreach on Stormwater Impacts**
  - **MCM #2 - Public Involvement/Participation**
  - **MCM #3 - Illicit Discharge Detection and Elimination (IDD&E)**
  - **MCM #4 - Construction Site Stormwater Runoff Control**
  - **MCM #5 - Post-Construction Stormwater Management (PCSM) in New and Redevelopment Activities**
  - **MCM #6 - Pollution Prevention/Good Housekeeping for Municipal Operations**

# RECAP OF PART 2 CONTINUED

## ➤ **Pollutants of Concern:**

- Total Nitrogen (TN), Total Phosphorus (TP), and Total Suspended Solids (TSS) – Sediment

## ➤ **Three (3) Impaired Streams in the Borough:**

- Rock Creek
- Steven's Run
- Unnamed Tributary to Rock Creek

# RECAP OF PART 2 CONTINUED

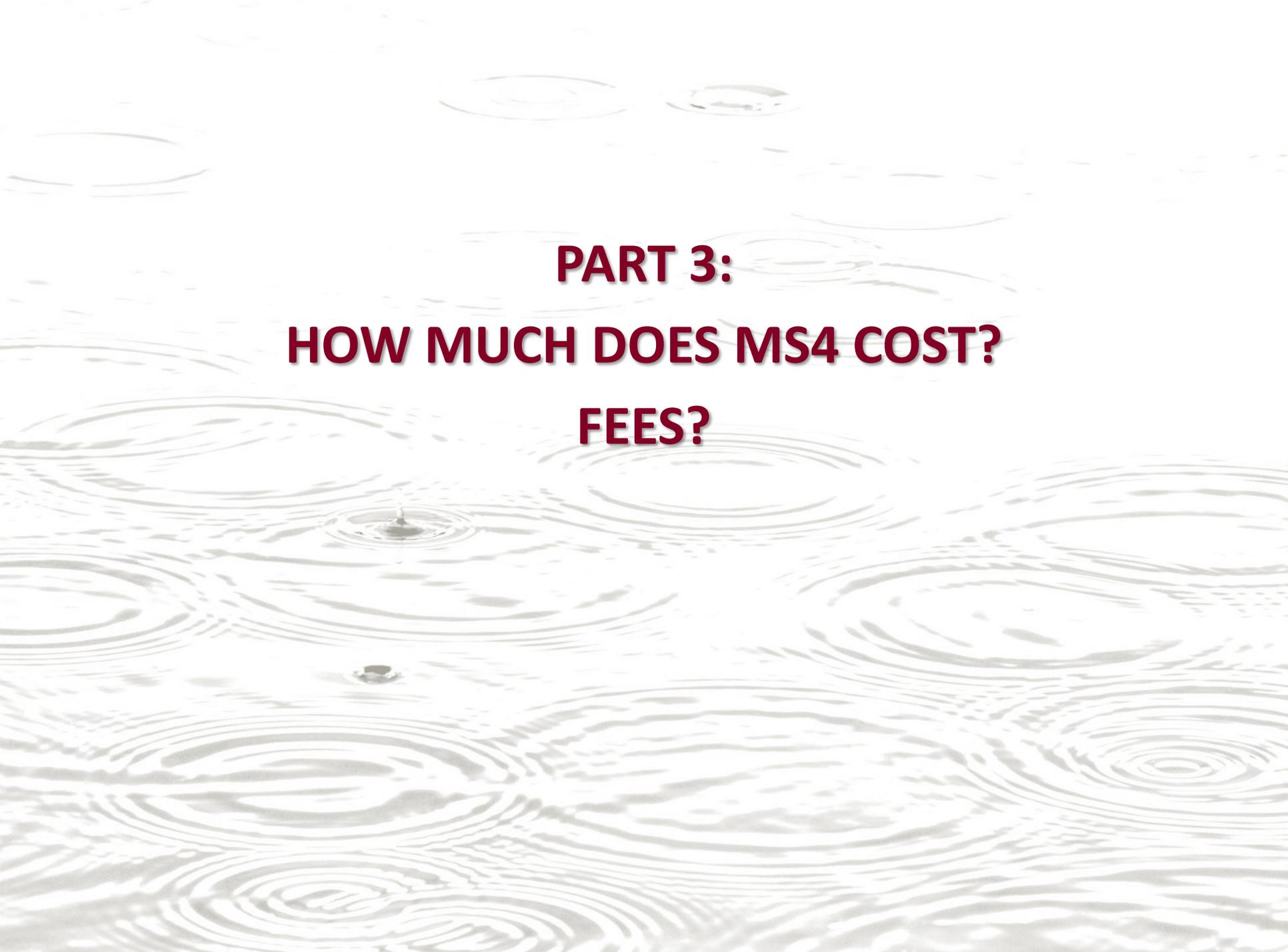
## BASELINE LOADING USING DEP SIMPLIFIED METHOD

<b>Land Cover</b>	<b>Area (ac)</b>	<b>TN lbs/yr</b>	<b>TP lbs/yr</b>	<b>TSS lbs/yr</b>
Impervious Area	458	15,319	962	640,979
Non-Impervious Area	444	10,219	356	92,306
Total	903	25,538	1,318	733,285
<b>Areas to be Parsed Out</b>				
	<b>Area (ac)</b>			
Impervious Area	60			
Non-Impervious Area	54			
<b>Land Cover (After Parsing)</b>				
	<b>Area (ac)</b>	<b>TN lbs/yr</b>	<b>TP lbs/yr</b>	<b>TSS lbs/yr</b>
Impervious Area	399	13,324	837	557,513
Non-Impervious Area	390	8,968	312	81,012
Total	789	22,293	1,149	638,525
<b>Existing BMP Reduction Credits</b>		416	17	43,345
Adjusted Totals		21,877	1,132	595,180
<b>Required Reductions</b>		<b>TN lbs (3%)</b>	<b>TP lbs (5%)</b>	<b>TSS lbs (10%)</b>
		<b>656</b>	<b>57</b>	<b>59,518</b>

# RECAP OF PART 2 CONTINUED

## BMPs TO ACHIEVE REQUIRED REDUCTIONS

Project No.	Project Name	BMP Type	Reduction Achieved (lbs. of sediment per year)
1	Gettysburg Inner Loop Segment A	Stream Restoration	7,630
2	Gettysburg Area Recreational Authority Parking Lot Improvements	Dry Extended Detention Basins	295
3	Gettysburg Area Recreational Authority Parking Lot D Improvements	Bioretention-Rain Garden (A/B Soils w/ Underdrain)	543
4	Mayor Alley Stream Restoration UNT to Rock Creek	Stream Restoration	1,122
5	Stream Bank Restoration UNT to Rock Creek (Culp's Farm)	Stream Restoration	44,880
6	Gettysburg Rec. Park Stream Bank Restoration & Rain Gardens	Bioretention-Rain Garden (A/B Soils w/ Underdrain) and Stream Restoration	N/A <del>22,607</del>
7	E. Broadway Street Improvements	Bioretention-Rain Garden (A/B Soils w/ Underdrain)	3,125
8	Race Horse Alley Green Street Project	Permeable Pavement and Bioretention-Rain Garden (A/B Soils w/ Underdrain)	2,007
9	Borough Garage Rain Garden	Bioretention-Rain Garden (A/B Soils w/ Underdrain)	1,346
<b>Total Reductions:</b>			<b>60,948</b>

The background of the slide is a close-up photograph of water ripples. Numerous concentric circles of varying sizes are visible, created by raindrops falling into a body of water. The lighting is bright, creating a shimmering effect on the water's surface.

**PART 3:**  
**HOW MUCH DOES MS4 COST?**  
**FEES?**

# GBSWA ANTICIPATED OPERATING COSTS

Operating Supplies	\$2,000.00
Computer/Copier Parts	\$2,000.00
Administrative Expenses	\$75,000.00
Accounting and Auditing	\$10,000.00
Engineering Services	\$15,000.00
Legal Expenses	\$5,000.00
Computer Software Fees	\$40,000.00
Legal Advertising	\$1,000.00
Repairs and Maintenance Storm Sewers	\$25,000.00
Capital Improvements Storm Sewers	<u>\$75,000.00</u>
<b>Total Expenditures for 6-month Period</b>	<b>\$250,000.00</b>
<b>Annual Expenditures</b>	<b>\$500,000.00</b>

## **STORMWATER FEE BACKGROUND**

- **Borough Council discussed options for the best way to establish fee structures to fund the MS4 program.**
- **Borough Staff with the assistance of C.S. Davidson visited neighboring municipalities to collect examples and options for funding the program.**
- **Borough Council determined that the fairest way to assess a fee would be based on impervious coverage.**

# IMPERVIOUS COVERAGE AND ERU ESTABLISHMENT

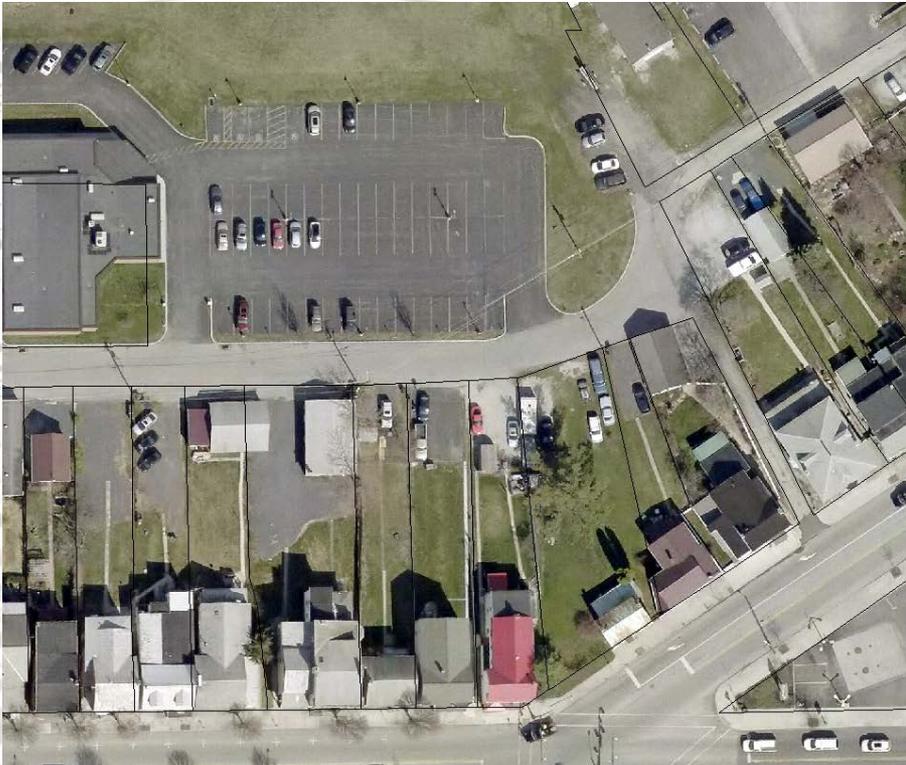
- “Equivalent Residential Unit (ERU)” Fee Structure selected as most applicable to the Borough.
- ERU Fee Structure bills an amount proportional to the impervious area on a parcel, regardless of the parcel’s total area.
- The average amount of impervious area for 1 ERU was calculated to be 2,500 square feet, i.e.,

$$1 \text{ ERU} = 2,500 \text{ sq.ft.}$$

- The 2,500 sq.ft. was calculated by averaging the total amount of impervious area for all Residential “R” parcels based on County designation.
- Recommended that parcels with less than or equal to 1,249 sq.ft. of total impervious area be charged 0.5 ERU

# DATA COLLECTION AND FEE ESTABLISHMENT

- Total amount of impervious area per parcel was determined by calculating impervious surfaces from aerial imagery
- Borough roads, State roads, and public sidewalks were removed from land cover data to present a more accurate representation of the impervious area per parcel



# ERU FEE STRUCTURE

➤  $Cost\ per\ ERU = \frac{Estimated\ Annual\ Operating\ Cost}{Total\ No.\ of\ ERUs} = \$/year$

**Cost per ERU =  $\frac{\$500,000.00}{5,000\ ERUs} = \$100.00/year$**

Tier	ERU	Impervious Range (sq.ft.)	Estimated Annual Fee	Estimated No. of Parcels in ERU Range
1	0.5 ERU	0 - 1,249	\$50.00	246
2	1 ERU	1,250 - 3,749	\$100.00	1,076
3	Per ERU	Greater than or equal to 3,750	\$150.00 to \$65,900.00	580

# ERU FEE STRUCTURE

Property Type Breakdown	ERUs	Revenue Contribution	Percentage
Commercial / Institutional	3,250	\$ 326,355.16	65%
Residential	1,400	\$ 142,218.77	28%
Industrial	200	\$ 19,234.51	4%
Other (Vacant, Utility, etc.)	150	\$ 12,191.57	3%
	5,000	\$ 500,000.00	100%

Residential Parcels	
ERU	Count
0.5	188
1	795
2	139
3	17
4	2
5	3
<b>Total</b>	<b>1,144</b>

# FEE ROLLOUT

- **Authority is developing the RRR**
- **Annual Bill**
  - **First Billing – July of 2019**
  - **Payment in 30 days at 2% discount**
  - **Fourth Quarter Payments at Face Value**
  - **10% penalty for late payments**
- **Credit Program for BMP's**

# QUESTIONS?



**PRESENTED BY:**  
**CHAD M. CLABAUGH, P.E.**



**C.S. Davidson, Inc.**

*Excellence in Civil Engineering*

# GETTYSBURG BOROUGH STORMWATER AUTHORITY (GBSWA)

3 PART SERIES ON PUBLIC EDUCATION AND OUTREACH

## PART 2: HOW DOES MS4 WORK?

PRESENTED BY:

CHAD M. CLABAUGH, P.E.



**C.S. Davidson, Inc.**

*Excellence in Civil Engineering*

# RECAP OF PART ONE HOW DID WE GET HERE?

- **Federal EPA expanded the CWA in 1972**
  - **EPA's National Pollutant Discharge Elimination System (NPDES) permit controls discharges**
  - **Phase I – Medium and Large MS4s Established in 1990 for populations of 100,000 or greater (NOT Gettysburg)**
  - **Phase II - Small MS4s In 2000 - Included Gettysburg with 2010 Census Data**
    - **An urbanized area (UA) is a densely settled core of census tracts and/or census blocks that have population of at least 50,000, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core**
- **PA DEP - Pennsylvania Clean Streams Law**
  - **PAG-13 - Authorization to discharge under the NPDES General Permit for Stormwater Discharges from Small MS4**
  - **2018–2023 MS4 General Permit**

# RECAP OF PART 1 CONTINUED

## ➤ Consequences:

- Clean Water
- Increased Flooding
- Jeopardize Funding
- Fines

## ➤ Ageing Conveyance

- No easements
- Under/Through Homes and Buildings
- Causing Sink Holes
- Borough has funded repairs through loans



# RECAP OF PART 1 CONTINUED

- **Borough Code doesn't allow for Boroughs to conduct the necessary Stormwater Management Related Services**
  - **House Bill 914 could change that but has yet to be enacted and has other limitations**
- **Gettysburg Council opted to create an Authority under the Municipal Authorities Act 53**
  - **Gives the GBSWA such purposes and powers as set forth in the Authorities Act including, but not limited to, the administration and assessment of related fees in connection with the construction, operation, maintenance and repairs necessary for the implementation and operation of the Borough's municipal separate storm sewer system and any other lawful purpose**

# 2018-2023 GENERAL PERMIT REQUIREMENTS

- **Notice of Intent (NOI)**
- **Annual Reporting**
- **Minimum Control Measures (MCMs)**
  - **MCM #1 - Public Education and Outreach on Stormwater Impacts**
  - **MCM #2 - Public Involvement/Participation**
  - **MCM #3 - Illicit Discharge Detection and Elimination (IDD&E)**
  - **MCM #4 - Construction Site Stormwater Runoff Control**
  - **MCM #5 - Post-Construction Stormwater Management (PCSM) in New and Redevelopment Activities**
  - **MCM #6 - Pollution Prevention/Good Housekeeping for Municipal Operations**
- **PA Obligated to Meet It's Target Pollutant Load Reductions**
  - **10% Reduction in TSS (Sediment)**
  - **5% Reduction in TP (Phosphorus)**
  - **3% Reduction in TN (Nitrogen)**

# MCM #1: PUBLIC EDUCATION & OUTREACH ON STORMWATER IMPACTS



# MCM #2: PUBLIC INVOLVEMENT/ PARTICIPATION



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





# MCM #4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL



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

---

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

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

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

**A. E&S Plan Reviews / NPDES Permit Processing**

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

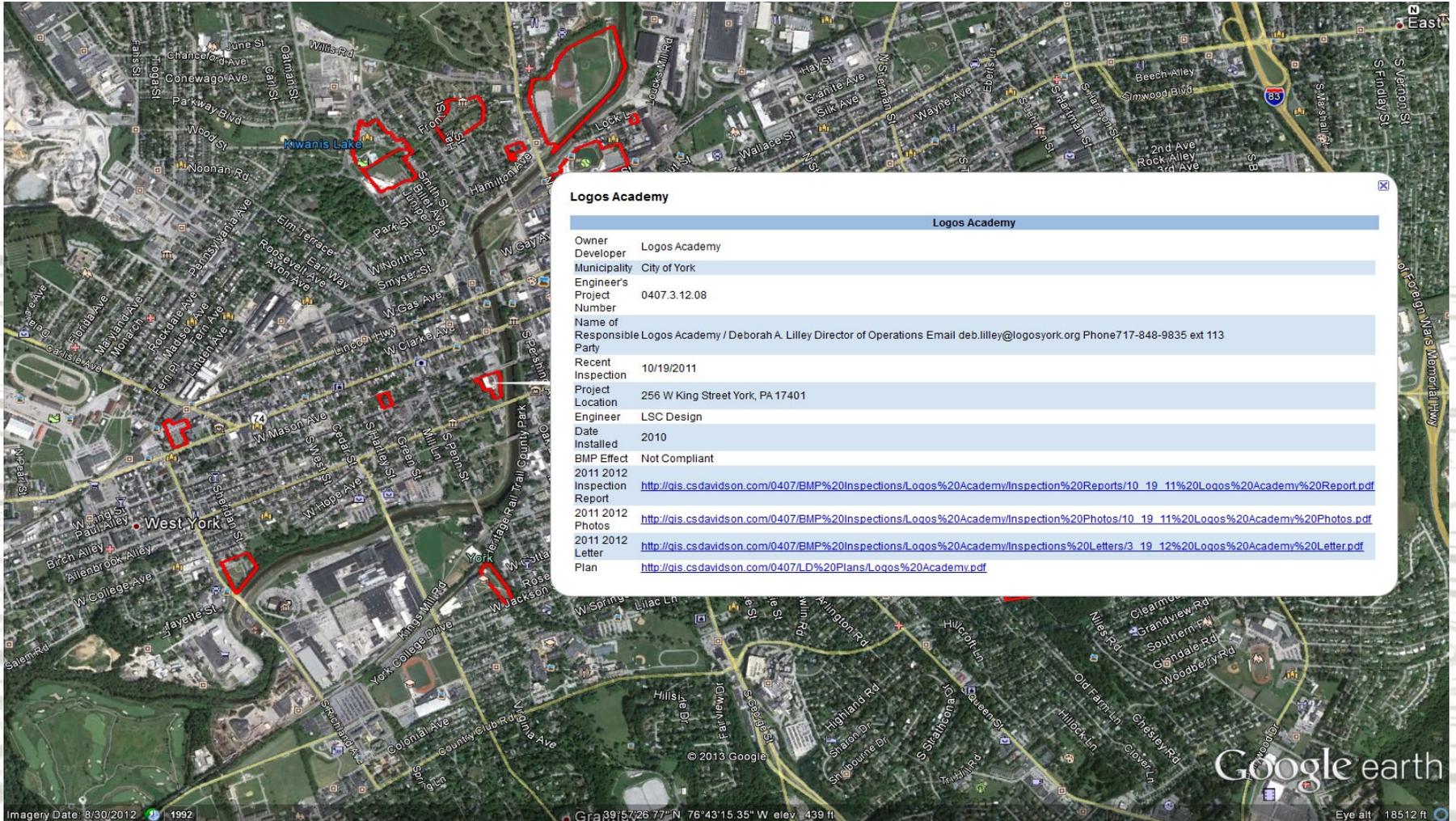
# MCM #5: POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM)



# **STORMWATER ORDINANCE REQUIREMENTS**

- **County-wide Act 167 Plans**
- **Exemption Criteria**
- **Levels of Plan Review/Approval**
- **O&M agreements**
  - **Must be recorded as part of the plan approval process**
  - **Provides a legal, enforceable mechanism to ensure long term maintenance**
  - **Transferable with the land**
  - **Required Inspections**

# BMP MAPPING/INVENTORY



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



# 2017 PRP COMPONENTS

## ➤ **Submitting a combined Pollutant Reduction Plan**

- Addresses local impaired water requirements and Chesapeake Bay Watershed impairments collectively

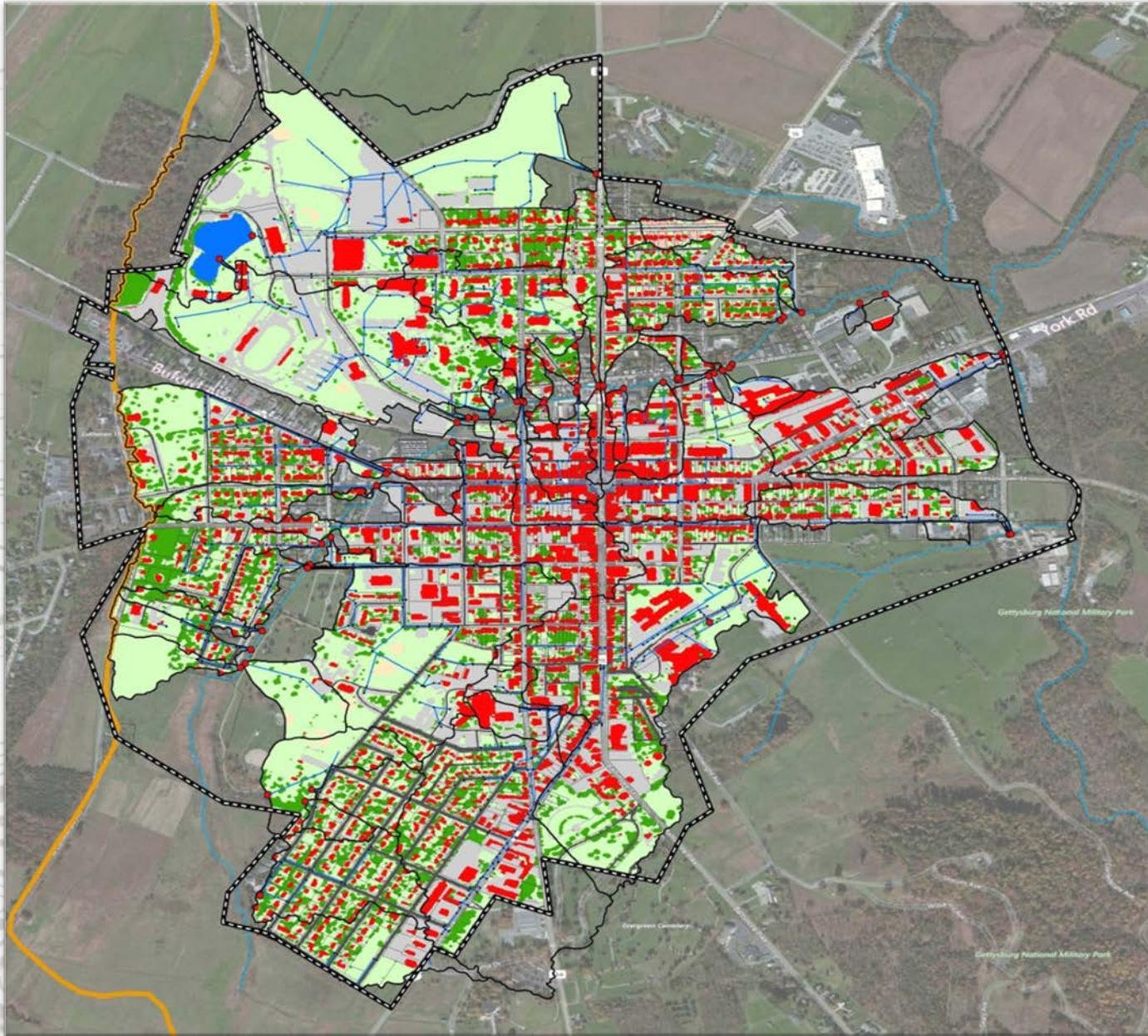
## ➤ **Report must include the following sections:**

- Public participation
- Maps
- Pollutants of concern
- Existing Loading for Pollutants of Concern
- BMPs required to Achieve the Minimum Required Reduction
- Funding Mechanisms
- BMP Operation and Maintenance

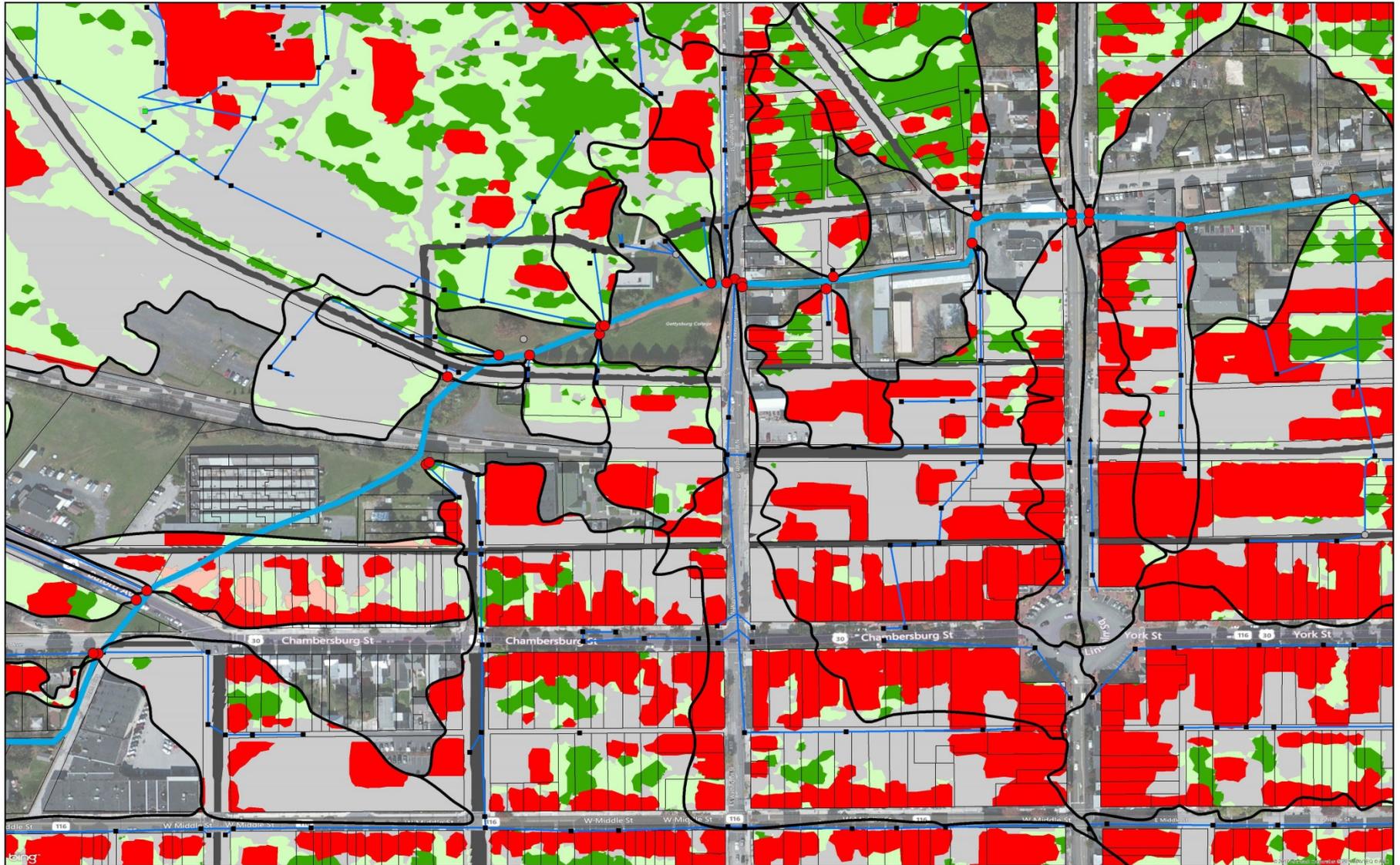
# **PUBLIC PARTICIPATION**

- **Publish a public notice in the newspaper.**
- **Accept public comments for a minimum of 30-days.**
- **Hold a public meeting to accept any public comments regarding the plan.**
- **Include documentation of consideration of public comments in the plan.**

# MAPPING



# MAPPING



# **POLLUTANTS OF CONCERN**

## **➤ Three (3) Pollutants of Concern:**

- Total Nitrogen (TN)
- Total Phosphorus (TP)
- Total Suspended Solids (TSS) – Sediment

## **➤ Three (3) Impaired Streams in the Borough:**

- Rock Creek
- Steven's Run
- Unnamed Tributary to Rock Creek

# BASELINE LOADING USING DEP SIMPLIFIED METHOD

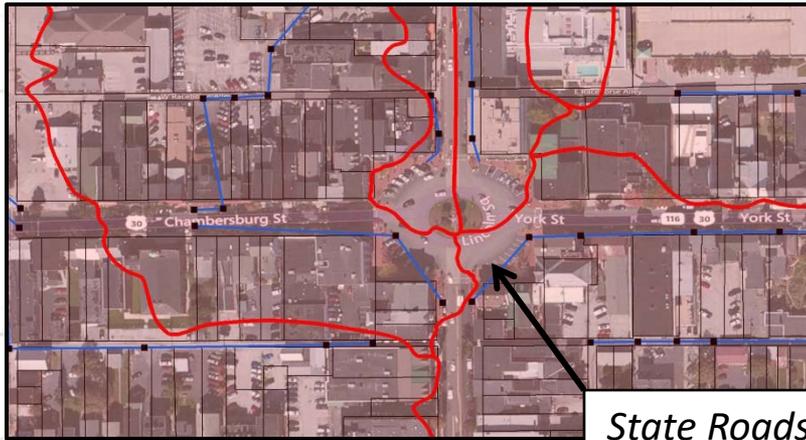
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Areas to be Parsed Out	Area (ac)
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Existing BMP Reduction Credits		416	17	43,345
Adjusted Totals		21,877	1,132	595,180
Required Reductions		TN lbs (3%) 656	TP lbs (5%) 57	TSS lbs (10%) 59,518

# BASELINE REDUCTIONS



*State Roads Removed from Land Cover Calculations*

Existing Structural BMP Credits	TN lbs/yr	TP lbs/yr	TSS lbs/yr
Best Western Hotel	7	0	316
Future Stakes Land Development	32	2	1,325
Gettysburg College - <u>Brua Drive</u>	44	4	3,625
339 Carlisle Street	22	1	600
Lutheran Seminary Historical Trail	2	0	64
Gettysburg College- Dining Hall	4	0	168
Bus Transfer Center	5	0	203
Bus Transfer Center	4	0	356
Central Energy Plant	58	3	1,806
Central Energy Plant Parking Lot	122	8	4,993
Orchard Development	18	1	723
Orchard Development	48	3	1,958
Gettysburg Hospital	245	15	10,165

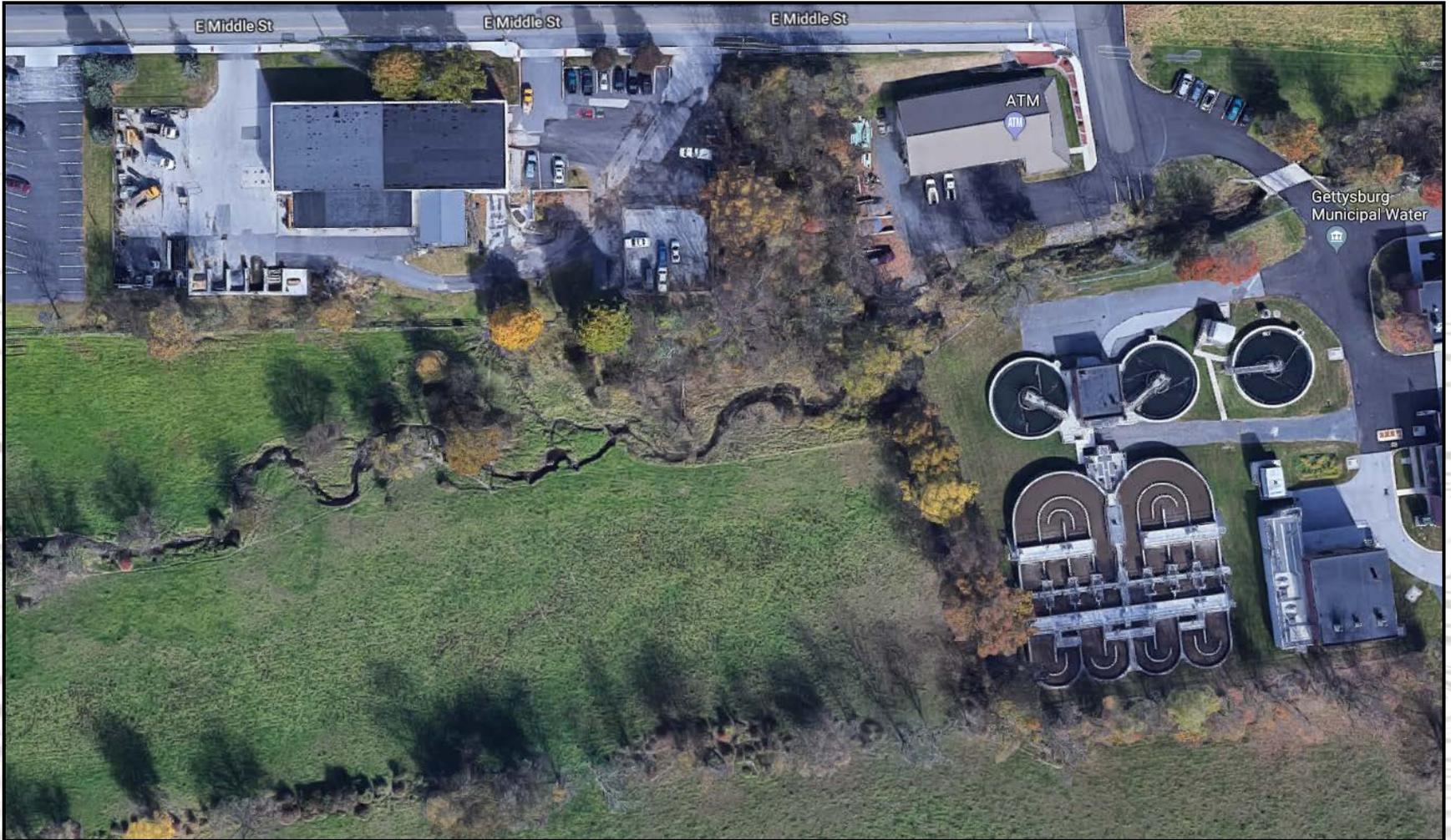
# BMPs TO ACHIEVE REQUIRED REDUCTIONS

Project No.	Project Name	BMP Type	Reduction Achieved (lbs. of sediment per year)
1	Gettysburg Inner Loop Segment A	Stream Restoration	7,630
2	Gettysburg Area Recreational Authority Parking Lot Improvements	Dry Extended Detention Basins	295
3	Gettysburg Area Recreational Authority Parking Lot D Improvements	Bioretention-Rain Garden (A/B Soils w/ Underdrain)	543
4	Mayor Alley Stream Restoration UNT to Rock Creek	Stream Restoration	1,122
5	Stream Bank Restoration UNT to Rock Creek (Culp's Farm)	Stream Restoration	44,880
6	Gettysburg Rec. Park Stream Bank Restoration & Rain Gardens	Bioretention-Rain Garden (A/B Soils w/ Underdrain) and Stream Restoration	N/A <del>22,607</del>
7	E. Broadway Street Improvements	Bioretention-Rain Garden (A/B Soils w/ Underdrain)	3,125
8	Race Horse Alley Green Street Project	Permeable Pavement and Bioretention-Rain Garden (A/B Soils w/ Underdrain)	2,007
9	Borough Garage Rain Garden	Bioretention-Rain Garden (A/B Soils w/ Underdrain)	1,346
<b>Total Reductions:</b>			<b>60,948</b>

# PROJECT No. 1 – GETTYSBURG INNER LOOP



# PROJECT No. 5 – STREAM BANK RESTORATION (CULP'S FARM)



# STORM SEWER IMPROVEMENTS

## ➤ Recently Completed:

- Grant Funded:

- GIL Phase A
- Steinwehr
- W. Middle

- Loan

- E. Middle
- Carlisle
- Stratton

## ➤ Future Priority:

- Long Lane
- Chambersburg Street

# PART 3 OF 3

- Public Education and Outreach Series Part 3 of 3
  - **How much does MS4 Cost? Fees?**
    - April 22 at 5:30

# QUESTIONS?



**PRESENTED BY:  
CHAD M. CLABAUGH, P.E.**



**C.S. Davidson, Inc.**

*Excellence in Civil Engineering*

# GETTYSBURG BOROUGH STORMWATER AUTHORITY (GBSWA)

## 3 PART SERIES ON PUBLIC EDUCATION AND OUTREACH ON MS4

### PART 1: WHY? (LAW BEHIND MS4)

PRESENTED BY:

CHAD M. CLABAUGH, P.E.



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# MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)



# **CLEAN WATER ACT (CWA)**

- **Environmental Protection Agency (EPA)**
- **The CWA was enacted in 1948 (at the time called the Federal Water Pollution Control Act)**
- **Significant reorganized and expanded in 1972**
- **EPA's National Pollutant Discharge Elimination System (NPDES) permit controls discharges.**

# MS4 PHASES

- **Phase I – Medium and Large MS4s (NOT Gettysburg)**
  - **Established in 1990 For urbanized areas with populations of 100,000 or greater**
  - **There are approximately 855 Phase I MS4s Nationwide**
- **Phase II - Small MS4s (Including Gettysburg)**
  - **An urbanized area (UA) is a densely settled core of census tracts and/or census blocks that have population of at least 50,000, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core.**
  - **6,695 Phase II MS4s Nationwide**
- **In Pennsylvania, there are two Large MS4s, no Medium MS4s, and 1059 Small MS4s.**

# **DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP)**

- **Pennsylvania Clean Streams Law**
- **PAG-13 - Authorization to discharge under the NPDES general Permit for Stormwater Discharges from Small MS4**
- **EPA's Chesapeake Bay Model for TMDL**
  - **PA obligated to meet it's 2025 Target Loads**
    - 10% reduction in TSS
    - 5% reduction in TP
    - 3% reduction in TN

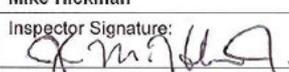
# 2018 – 2023 GENERAL PERMIT REQUIRED

- **Notice of Intent (NOI)**
- **Annual Reporting**
- **Minimum Control Measures (MCMs)**
  - **MCM #1** - Public Education and Outreach on Stormwater Impacts
  - **MCM #2** - Public Involvement/Participation
  - **MCM #3** - Illicit Discharge Detection and Elimination (IDD&E)
  - **MCM #4** - Construction Site Stormwater Runoff Control
  - **MCM #5** - Post-Construction Stormwater Management (PCSM) in New and Redevelopment Activities
  - **MCM #6** - Pollution Prevention/Good Housekeeping for Municipal Operations
- **Chesapeake Bay - Pollutant Reduction Plan (PRP)**

# MS4 AUDITS

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

V-48

NPDES Permit No.	Mo/Day/Yr	Entry Time	Exit Time	Inspection Type	eFACTS Inspection ID
PAG133596	08/21/2014	09:00	16:00	DAI	2302697
MS4 Permittee Name: York City				<input checked="" type="checkbox"/> PAG-13 Coverage <input type="checkbox"/> Individual Permit <input type="checkbox"/> Check here if a "joint permit" with co-permittees	
Mailing Address: 101 S George Street, York, PA 17401-1231				Municipality: York City	
Responsible Official: James Gross		Title: Director Dep. of Public Works		County: York	
Business Phone: (717) 849-2245		Email: JGross@yorkcity.org		Permit Expiration Date: March 31, 2018	
Co-Permittees (if applicable):				Permit Renewal Application/NOI Due: October 2, 2017	
				Chesapeake Bay Watershed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input checked="" type="checkbox"/> Office Visit <input type="checkbox"/> Field Visit				Discharge(s) to TMDL Waters? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>VIOLATIONS:</b> (list below) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Several comments are listed below.					
Person Interviewed: James Gross		Date: 08/21/2014	Inspectors: Mike Hickman		Date: 08/21/2014
Signature:		Phone No.:	Inspector Signature: 		Phone No.: (717)705-6640
Title: Director Department of Public Works			Title: Environmental Engineering Specialist		
Email: JGross@yorkcity.org			Email: johickman@pa.gov		
This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. Any violations which were noted during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and review of Department records.					

# AGEING SYSTEM

- Borough has ageing stormwater pipes which are failing.
- No Easements
- Under/Through Homes and Buildings
- Causing Sink Holes
- Borough has funded repairs through loans



# **GETTYSBURG BOROUGH STORMWATER AUTHORITY (GBSWA)**

- **Borough Code doesn't allow for Boroughs to conduct the necessary Stormwater Management Related Services**
  - **House Bill 914 could change that but has yet to be enacted and has other limitations**
- **Gettysburg Council opted to create an Authority under the Municipal Authorities Act, 53**
  - **Gives the GBSWA such purposes and powers as set forth in the Authorities Act including, but not limited to , the administration and assessment of related fees in connection with the construction, operation, maintenance and repairs necessary for the implementation and operation of the Borough's municipal separate storm sewer system and any other lawful purpose**

# CONSEQUENCES

- **Clean Water**
- **Failing Storm Conveyance Systems**
- **Increased Flooding**
- **Jeopardize Grants and funding sources such as Liquid Fuels Funding.**
- **Fines:**
  - **EPA fined City of Wilkes-Barre and Kingston Borough with penalties of \$25,000 and \$12,000**
  - **Lancaster Online reported that Manor and Swatara Townships, and Lebanon and York Cities were fined a combined \$128,608 in 2010 for violations related to stormwater management regulations.**
  - **The Morning Call reported that Manor Township paid \$150,000 in legal, engineering and staff costs related to the federal orders and citations after the fine was negotiated from \$175,000 down to about \$41,000**

# NEXT STEPS

- Public Education and Outreach Part 2 of 3
  - **What is MS4 and How does it work?**
  
- Public Education and Outreach Part 3 of 3
  - **Fees \$**

# QUESTIONS?



**PRESENTED BY:  
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Entries are listed in reverse chronological order. **Bolded entries are new.**

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

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**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Ashraf Development – 150 Carlisle Street

- April 2019 – CSD received a sketch plan for a proposed mixed-use development which is under review.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

Broadway Street Improvements:

- **June 2019** – Borough Council approved the final edits to the plans reducing the rain gardens to two (located adjacent to the eastern speed table) and authorized the bidding of the project at its May Council Meeting. CSD has been addressing requests for information from prospective bidders and held a pre-bid meeting on May 30. CSD also received and addressed comments from PennDOT for the two HOPs associated with the project and is awaiting a response/decision. The construction schedule is as follows:
  - **May – June:** GMA and Columbia Gas Utility replacements
  - **June – July:** Borough removal of concrete curb/sidewalk
  - **July 18:** start of full depth excavation of street through the agility program
  - **Aug – Nov:** reconstruction of streets, curb, and sidewalk

Bids were received at 10:00 AM on 6-7-19 and will be presented to council for decision at the 6-10-19 meeting. The apparent low bidder is C.E. Williams with a bid of \$749,493.00 which is lower than the Engineer's estimate of \$800,000. CSD recommends award of this bid.

- April 2019 – CSD continues to develop the design and construction plans and specifications. CSD will present the preliminary plans to the Council at the April 22 workshop meeting. A property owner's town hall meeting is scheduled for May 7, 2019 to provide information on what to expect during construction in terms of street closures and temporary interruptions to water and gas utilities.
- March 2019 – CSD obtained a decision from Borough Council at the January Workshop meeting on the option for 2 speed tables along with the street width reduction by approximately 10' (5' on each side). The Council also provided a decision on the Islands on West Broadway which consisted of minor narrowing of the island to allow for temporarily parked delivery vehicles but not enough to allow for permanent parking. It was decided that parking along the north side will be eliminated. CSD has begun the design and is coordinating with the utility companies. The GMA waterline replacement is expected to begin in May. It is also anticipated that some gas laterals may need to be lowered to complete the construction. The Borough's construction is scheduled to begin in mid to late July. The goal is to complete all construction prior to end 2019 which is ambitious so if the project gets delayed for any reason there is a chance that weather/temperature dependent surface restorations may need to wait until spring of 2020.

Stratton Street Storm Sewer (2383.4.50.00):

- **June 2019** – The project is substantially complete. Application for Payment No. 8 has been processed for work completed through May 31, 2019 in the amount of \$32,914.96. CSD reviewed this application and recommends approval which brings the total paid to date to \$695,500.08. \$1,000 is being held for a few minor punch list items. That will bring the total project cost to \$696,500.08.

Stratton Street Pavement Improvements (2383.4.68.00):

- **June 2019** – The paving is substantially complete. The only remaining item to raise a few manhole risers. No application for payment has been made to date.

2019 CDBG Curb Ramp Replacements (2383.4.66.00)

- **June 2019** – The council made the award to Pro's Concrete contingent on the County's approval, which they did approve. A Pre-Construction Meeting was held on May 10, 2019. The Notice to Proceed date for construction was May 13, 2019. At this point the project is substantially complete. An application for payment has been made and recommended for approval by CSD. 5% of the payment is being held until a few punch list items are addressed.
- **April 2019** – CSD addressed requests for information from prospective bidders. The Borough received 3 bids on 4-4-19 and the apparent low bidder is Pro's Concrete with a bid of \$71,050. This bid is below CSD's estimate of \$93K. The Borough and CSD have a good history with Pro's thusly we recommend award of this contract. A bid tabulation will be provided to council for potential award at the April 8 Borough Council Meeting.
- **March 2019** – CSD has completed the design and is requesting authorization from the Council to proceed with the advertisement at its March Council meeting. This project is phase 2 of a three phase reconstruction of King Street. Phase 1 is replacement of storm sewers and Phase 3 is the street reconstruction. CSD will be assisting borough staff to conduct a property owners meeting in April.

King Street Stormwater Improvements (2383.5.23.00):

- **June 2019** – Change Order No. 1 of the King Street Stormwater Improvements Contract has been filed for the additional connection of three existing drain pipes to the proposed storm sewer trunk line and removal of an existing buried inlet. The Change Order also includes a credit for the existing concrete curbing that was salvaged during construction and therefore, removed from the Contract. This Change Order is a credit in the amount of -\$3,275.00. An application for payment No. 2 was also filed in the amount of \$36,632.20 increasing the total paid to date to \$64,678.00.
- **May 2019** - Application for Payment No. 1 has been processed for work completed through April 30, 2019 in the amount of \$28,045.80. CSD reviewed this application and recommends approval.
- **April 2019** – A property owner's town hall meeting is scheduled for April 23, 2019 to provide information on what to expect during construction such as street closures.
- **March 2019** – CSD completed the design and advertised the project for bids. Bids were opened on 3-7-19 and the low bidder appears to be C.E. Williams with a bid of \$68,953.00. CSD will be recommending award of this Contract at the March Council business meeting. This project is phase 1 of the three phased reconstruction of King Street. Construction is scheduled to begin early May.

GARA Fill Site:

- **June 2019** – The NPDES permit has been obtained and a pre-construction meeting was held with ACCD. Borough Public Works have begun removing trees. Construction is scheduled to start on 6-10-19. The fill site will remain active through the construction of King and Broadway and is intended to be finish grade and seeded in the fall of this year.
- **April 2019** – CSD presented the draft MOU to the Borough Council at the 3-25-19 Council Workshop. CSD will be submitting the NPDES permit for Erosion Control to County Conservation by the week of 4-8-19.
- **March 2019** – CSD has been coordinating with GARA for the use of the southeastern corner of the park as a fill site to deposit over 400 truckloads of fill material being generated by several Borough projects this summer most notably the King Street and the Broadway projects. GARA has approved the concept. CSD is pushing ahead with the NPDES permitting with the County Conservation District in an attempt to have it ready for the first two phases of King Street. A memorandum of understanding is being drafted that will outline each party's responsibilities and will be presented to the Borough Council at their March Workshop meeting.

2019 Bridge Maintenance:

- **June 2019** – CSD has completed the design and has bid the project. Bids were opened at 10:00 AM on 6-7-19. The low bid is Fares Farhat General Construction Services with a bid of \$88,394.96. This bid is under review with the Borough Solicitor to determine the Responsiveness. The second low Bid is JVI Group Inc. with a bid of \$94,910.00. CSD would recommend award of either of these bids as they are both within the engineer's estimate of \$95,000.00

OTHER PROJECTS:Flood Mapping and Ordinance:

- **June 2019** – FEMA has provided responses to the documentation that has been submitted. These responses are under review.
- **April 2019** – CSD submitted documentation to FEMA for the two property owners who wish to appeal the new mapping. FEMA has responded confirming receipt. FEMA has scheduled a meeting with the Borough during the week of April 29.
- **March 2019** – Borough Council requested that CSD provide a letter to all property owners who are affected by the new flood maps which were delivered on approximately Feb 15. Since then CSD has fielded about a dozen calls from property owners. Most of the calls were just to provide clarity or gain additional information. So far 2 property owners wish to appeal. FEMA has ruled that the appeals must come through the Borough so CSD will assist those property owners in submitting the paperwork to FEMA prior to the March 20, 2019 deadline.
- **Jan. 2019** – A letter dated 12-6-18 was received notifying the Borough of the proposed flood mapping changes and giving instruction on the appeal process. CSD will continue to advise the Borough on how to address this topic.

K:\238310099\2019 Engineer's Reports\2019-6 Engineer's Report.docx

Entries are listed in reverse chronological order. **Bolded entries are new.**

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

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**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Ashraf Development – 150 Carlisle Street

- April 2019 – CSD received a sketch plan for a proposed mixed-use development which is under review.

AT&T Tower at Fire Station:

- April 2019 - CSD provided input on the proposed tower site at the March P.C. and Council Workshop meetings including research and reference to the existing tower at the Courthouse.

Mark Gettysburg (Walmart in Straban):

- April 2019 – CSD completed the review of the revised TIS. The revised TIS include the statement from the Borough that the Borough is in favor of the improvement to York Road/Hanover Road/ Liberty Street intersection as long as the existing parking spaces are not impacted. However, the revised TIS doesn't address the Borough's concern about the lack of pedestrian facilities proposed to connect the existing sidewalks in the Borough near the Hanover St. / Sixth St. intersection to the proposed roundabout on Hanover Road. CSD sent an e-mail to the Traffic Engineer dated 2-28-19 asking for them to address this concern. In addition, CSD and the Public Works Director conveyed to the applicant the Borough's wishes on the specifics of the upgrades to the traffic signal as it relates to the use of video cameras instead of traffic loops.
- March 2019 – CSD completed the review of the TIS dated 11-7-18, initiated correspondence with PennDOT relating to the taper at York/Hanover intersection, and drafted the letter for signature by the Borough dated 3-7-19. A revised TIS was received on 2-25-19 and is under review.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

Broadway Street Improvements:

- April 2019 – CSD continues to develop the design and construction plans and specifications. CSD will present the preliminary plans to the Council at the April 22 workshop meeting. A property owner's town hall meeting is scheduled for May 7, 2019 to provide information on what to expect during construction in terms of street closures and temporary interruptions to water and gas utilities.
- March 2019 – CSD obtained a decision from Borough Council at the January Workshop meeting on the option for 2 speed tables along with the street width reduction by approximately 10' (5' on each side). The Council also provided a decision on the Islands on West Broadway which consisted of minor narrowing of the island to allow for temporarily parked delivery vehicles but not enough to allow for permanent parking. It was decided that parking along the north side will be eliminated. CSD has begun the design and is coordinating with the utility companies. The GMA waterline replacement is expected to begin in May. It is also anticipated that some gas laterals may need to be lowered to complete the construction. The Borough's construction is scheduled to begin in mid to late July. The goal is to complete all construction prior to end 2019 which is ambitious so if the project gets delayed for any reason there is a chance that weather/temperature dependent surface restorations may need to wait until spring of 2020.

Stratton Street Storm Sewer (2383.4.50.00):

- May 2019 – CSD continues to work with the Public Works Director to oversee surface restoration work being done by Columbia Gas's Contractors, as well as the Borough's and GMA's. The goal is to complete all concrete and yard restorations in April/May to allow for final paving in May/June. Change Order #6 has been submitted in the amount of \$12,036.42 for the continuous overnight boring and the base repairs on East Water Street which we were aware of and recommend approval of. This brings the total Contract Price to \$751,013.58. Application for Payment No. 7 has been processed for work completed through April 30, 2019 in the amount of \$43,152.10. CSD reviewed this application and recommends approval. If approved this would bring the total paid to date to \$662,585.12.

Stratton Street Pavement Improvements (2383.4.68.00):

- April 2019 – CSD has been assisting with the contract administration.
- March 2019 – CSD opened bids in February and the Contract was awarded to Kinsley Construction in the amount of \$247,678.00. The paving is scheduled for May 2019.
- Feb. 2019 - The project advertised January 24 and January 28 with the bid opening scheduled for February 8, 2019. A bid tabulation will be prepared for presentation before the Council on February 11<sup>th</sup> in anticipation of an award.

2019 CDBG Curb Ramp Replacements (2383.4.66.00)

- May 2019 – The County found Pro's Concrete's bid to be responsive, therefore the Contract was awarded to them. A Pre-Construction Meeting was held on May 10, 2019. The Notice to Proceed date for construction is May 13, 2019.
- April 2019 – CSD addressed requests for information from prospective bidders. The Borough received 3 bids on 4-4-19 and the apparent low bidder is Pro's Concrete with a bid of \$71,050. This bid is below CSD's estimate of \$93K. The Borough and CSD have a good history with Pro's thusly we recommend award of this contract. A bid tabulation will be provided to council for potential award at the April 8 Borough Council Meeting.
- March 2019 – CSD has completed the design and is requesting authorization from the Council to proceed with the advertisement at its March Council meeting. This project is phase 2 of a three phase reconstruction of King Street. Phase 1 is replacement of storm sewers and Phase 3 is the street reconstruction. CSD will be assisting borough staff to conduct a property owners meeting in April.
- Feb. 2019 – CSD has completed the survey and is 75% complete with ramp designs. The ramps to be replaced are at the following intersections: Hillcrest/Locust, Baltimore/Locust, Johns/Culp, Highland/Culp, and Fairview/Culp. The goal is to advertise for construction bids in March with construction running between May and July. The County has confirmed that the 2017 CDBG funds have been approved for use on this project.

King Street Stormwater Improvements (2383.5.23.00):

- May 2019 - Application for Payment No. 1 has been processed for work completed through April 30, 2019 in the amount of \$28,045.80. CSD reviewed this application and recommends approval.
- April 2019 – A property owner's town hall meeting is scheduled for April 23, 2019 to provide information on what to expect during construction such as street closures.
- March 2019 – CSD completed the design and advertised the project for bids. Bids were opened on 3-7-19 and the low bidder appears to be C.E. Williams with a bid of \$68,953.00. CSD will be recommending award of this Contract at the March Council business meeting. This project is phase 1 of the three phased reconstruction of King Street. Construction is scheduled to begin early May.
- Feb. 2019 - The project scheduled to advertise February 22 and February 25 with the bid opening scheduled for March 7, 2019. A bid tabulation will be prepared for presentation before the Council at the March 11<sup>th</sup> meeting.

GARA Fill Site:

- April 2019 – CSD presented the draft MOU to the Borough Council at the 3-25-19 Council Workshop. CSD will be submitting the NPDES permit for Erosion Control to County Conservation by the week of 4-8-19.
- March 2019 – CSD has been coordinating with GARA for the use of the southeastern corner of the park as a fill site to deposit over 400 truckloads of fill material being generated by several Borough projects this summer most notably the King Street and the Broadway projects. GARA has approved the concept. CSD is pushing ahead with the NPDES permitting with the County Conservation District in an attempt to have it ready for the first two phases of King Street. A memorandum of understanding is being drafted that will outline each party's responsibilities and will be presented to the Borough Council at their March Workshop meeting.

**OTHER PROJECTS:**Flood Mapping and Ordinance:

- April 2019 – CSD submitted documentation to FEMA for the two property owners who wish to appeal the new mapping. FEMA has responded confirming receipt. FEMA has scheduled a meeting with the Borough during the week of April 29.
- March 2019 – Borough Council requested that CSD provide a letter to all property owners who are affected by the new flood maps which were delivered on approximately Feb 15. Since then CSD has fielded about a dozen calls from property owners. Most of the calls were just to provide clarity or gain additional information. So far 2 property owners wish to appeal. FEMA has ruled that the appeals must come through the Borough so CSD will assist those property owners in submitting the paperwork to FEMA prior to the March 20, 2019 deadline.
- Jan. 2019 – A letter dated 12-6-18 was received notifying the Borough of the proposed flood mapping changes and giving instruction on the appeal process. CSD will continue to advise the Borough on how to address this topic.

Municipal Separate Storm Sewer System (MS4):

- CSD intends on providing reporting on MS4 will be through the GBSWA moving forward.

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Mark Gettysburg (Walmart in Straban):

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- March 2019 – CSD completed the review of the TIS dated 11-7-18, initiated correspondence with PennDOT relating to the taper at York/Hanover intersection, and drafted the letter for signature by the Borough dated 3-7-19. A revised TIS was received on 2-25-19 and is under review.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

Broadway Street Improvements:

- **April 2019 – CSD continues to develop the design and construction plans and specifications. CSD will present the preliminary plans to the Council at the April 22 workshop meeting. A property owner's town hall meeting is scheduled for May 7, 2019 to provide information on what to expect during construction in terms of street closures and temporary interruptions to water and gas utilities.**
- March 2019 – CSD obtained a decision from Borough Council at the January Workshop meeting on the option for 2 speed tables along with the street width reduction by approximately 10' (5' on each side). The Council also provided a decision on the Islands on West Broadway which consisted of minor narrowing of the island to allow for temporarily parked delivery vehicles but not enough to allow for permanent parking. It was decided that parking along the north side will be eliminated. CSD has begun the design and is coordinating with the utility companies. The GMA waterline replacement is expected to begin in May. It is also anticipated that some gas laterals may need to be lowered to complete the construction. The Borough's construction is scheduled to begin in mid to late July. The goal is to complete all construction prior to end 2019 which is ambitious so if the project gets delayed for any reason there is a chance that weather/temperature dependent surface restorations may need to wait until spring of 2020.

Stratton Street Storm Sewer (2383.4.50.00):

- **April 2019 – CSD continues to work with the Public Works Director to oversee surface restoration work being done by Columbia Gas's Contractors as well as the Borough's and GMA's. The goal is to complete all concrete and yard restorations in April/May to allow for final paving in May/June. Change Order #5 has been submitted in the amount of \$5183.83 for the continuous overnight boring which we were aware of and recommend approval of. This brings the total Contract Price to \$738,966.16. Application for Payment No. 6 has been processed for work completed through 3-31-19 in the amount of \$83,318.96. CSD reviewed this application and recommends approval. If approved this would bring the total paid to date to \$619,433.03**

Stratton Street Pavement Improvements (2383.4.68.00):

- **April 2019 – CSD has been assisting with the contract administration.**
- March 2019 – CSD opened bids in February and the Contract was awarded to Kinsley Construction in the amount of \$247,678.00. The paving is scheduled for May 2019.
- Feb. 2019 - The project advertised January 24 and January 28 with the bid opening scheduled for February 8, 2019. A bid tabulation will be prepared for presentation before the Council on February 11<sup>th</sup> in anticipation of an award.

2019 CDBG Curb Ramp Replacements (2383.4.66.00)

- **April 2019 – CSD addressed requests for information from prospective bidders. The Borough received 3 bids on 4-4-19 and the apparent low bidder is Pro's Concrete with a bid of \$71,050. This bid is below CSD's estimate of \$93K. The Borough and CSD have a good history with Pro's thusly we recommend award of this contract. A bid tabulation will be provided to council for potential award at the April 8 Borough Council Meeting.**
- March 2019 – CSD has completed the design and is requesting authorization from the Council to proceed with the advertisement at its March Council meeting. This project is phase 2 of a three phase reconstruction of King Street. Phase 1 is replacement of storm sewers and Phase 3 is the street reconstruction. CSD will be assisting borough staff to conduct a property owners meeting in April.
- Feb. 2019 – CSD has completed the survey and is 75% complete with ramp designs. The ramps to be replaced are at the following intersections: Hillcrest/Locust, Baltimore/Locust, Johns/Culp, Highland/Culp, and Fairview/Culp. The goal is to advertise for construction bids in March with construction running between May and July. The County has confirmed that the 2017 CDBG funds have been approved for use on this project.

King Street Stormwater Improvements (2383.5.23.00):

- **April 2019 – A property owner's town hall meeting is scheduled for April 23, 2019 to provide information on what to expect during construction such as street closures.**
- March 2019 – CSD completed the design and advertised the project for bids. Bids were opened on 3-7-19 and the low bidder appears to be C.E. Williams with a bid of \$68,953.00. CSD will be recommending award of this Contract at the March Council business meeting. This project is phase 1 of the three phased reconstruction of King Street. Construction is scheduled to begin early May.
- Feb. 2019 - The project scheduled to advertise February 22 and February 25 with the bid opening scheduled for March 7, 2019. A bid tabulation will be prepared for presentation before the Council at the March 11<sup>th</sup> meeting.

GARA Fill Site:

- **April 2019 – CSD presented the draft MOU to the Borough Council at the 3-25-19 Council Workshop. CSD will be submitting the NPDES permit for Erosion Control to County Conservation by the week of 4-8-19.**
- March 2019 – CSD has been coordinating with GARA for the use of the southeastern corner of the park as a fill site to deposit over 400 truckloads of fill material being generated by several Borough projects this summer most notably the King Street and the Broadway projects. GARA has approved the concept. CSD is pushing ahead with the NPDES permitting with the County Conservation District in an attempt to have it ready for the first two phases of King Street. A memorandum of understanding is being drafted that will outline each party's responsibilities and will be presented to the Borough Council at their March Workshop meeting.

OTHER PROJECTS:Flood Mapping and Ordinance:

- **April 2019 – CSD submitted documentation to FEMA for the two property owners who wish to appeal the new mapping. FEMA has responded confirming receipt. FEMA has scheduled a meeting with the Borough during the week of April 29.**
- March 2019 – Borough Council requested that CSD provide a letter to all property owners who are affected by the new flood maps which were delivered on approximately Feb 15. Since then CSD has fielded about a dozen calls from property owners. Most of the calls were just to provide clarity or gain additional information. So far 2 property owners wish to appeal. FEMA has ruled that the appeals must come through the Borough so CSD will assist those property owners in submitting the paperwork to FEMA prior to the March 20, 2019 deadline.
- Jan. 2019 – A letter dated 12-6-18 was received notifying the Borough of the proposed flood mapping changes and giving instruction on the appeal process. CSD will continue to advise the Borough on how to address this topic.

Municipal Separate Storm Sewer System (MS4):

- **CSD intends on providing reporting on MS4 will be through the GBSWA moving forward.**

*Entries are listed in reverse chronological order. **Bolded entries are new.***

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

***The security tracking spreadsheet has been changed this month and a new spreadsheet is attached.** Inspection Reports are kept on file for all land developments under construction and can be provided upon request.*

**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Mark Gettysburg (Walmart in Straban):

- **March 2019 – CSD completed the review of the TIS dated 11-7-18, initiated correspondence with PennDOT relating to the taper at York/Hanover intersection, and drafted the letter for signature by the Borough dated 3-7-19. A revised TIS was received on 2-25-19 and is under review.**
- Dec. 2018 – CSD received a new Transportation Impact Study Packet dated 11-7-18. CSD will provide comments to the Borough regarding any impact to the Borough.
- Aug. 2018 – CSD reviewed the proposed changes to the traffic signal at the intersection of York Road with Hanover Street and is currently working with the Parking Department to provide a response to the developer on how the proposal will effect on street parking. CSD has discussed this project with the planning commission which recommended that the development include pedestrian accessibility along the proposed Hanover Street Entrance.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

Broadway Street Improvements:

- **March 2019 – CSD obtained a decision from Borough Council at the January Workshop meeting on the option for 2 speed tables along with the street width reduction by approximately 10' (5' on each side). The Council also provided a decision on the Islands on West Broadway which consisted of minor narrowing of the island to allow for temporarily parked delivery vehicles but not enough to allow for permanent parking. It was decided that parking along the north side will be eliminated. CSD has begun the design and is coordinating with the utility companies. The GMA waterline replacement is expected to begin in May. It is also anticipated that some gas laterals may need to be lowered to complete the construction. The Borough's construction is scheduled to begin in mid to late July. The goal is to complete all construction prior to end 2019 which is ambitious so if the project gets delayed for any reason there is a chance that weather/temperature dependent surface restorations may need to wait until spring of 2020.**
- Jan. 2019 – CSD prepared updated sketch plans including one new option showing shifted Islands on W. Broadway and three new options showing speed tables and a centrally located circle on E. Broadway. The goal is to get direction on the options at the January Council Workshop meeting so that design can begin.
- Dec. 2018 – CSD prepared a sketch plan for E. Broadway which shows curb bumps and a speed table to address property owner concerns about traffic safety. CSD also attended several meetings with property owners to review options for improvements to Broadway. The goal is to narrow the options enough to start the design in January which would allow time to complete the design, permitting, and construction bidding for a July start of construction. This is separate from GMA's waterline replacement which is expected to be underway prior to July so that it can be complete in advance of the finished paving. The goal is to complete all construction prior to Oct. 30, 2019 but if the project gets delayed for any reason there is a chance that weather dependent surface restorations may need to wait until spring of 2020.

Stratton Street Storm Sewer (2383.4.50.00):

- **March 2019 – The Borough's and Columbia Gas's Contractors continue to work on surface restorations such as curb and sidewalk which will need to be complete prior to May 1 to make way for the street overlay project.**
- Feb. 2019 - Application for Payment No. 5 has been processed for work completed through 1/31/19 in the amount of \$36,879.00 bringing the total paid to date to \$562,183.58. At this point the new Storm Sewer has been installed. The Contractor (as well as Columbia Gas's Contractor) will be working on surface restorations such as curb and sidewalk between now and April. The trench paving associated with this project will be done in April and full width street overlay in May.

Stratton Street Pavement Improvements (2383.4.68.00):

- **March 2019 – CSD opened bids in February and the Contract was awarded to Kinsley Construction in the amount of \$247,678.00. The paving is scheduled for May 2019.**
- Feb. 2019 - The project advertised January 24 and January 28 with the bid opening scheduled for February 8, 2019. A bid tabulation will be prepared for presentation before the Council on February 11<sup>th</sup> in anticipation of an award.

2019 CDBG Curb Ramp Replacements (2383.4.66.00)

- **March 2019 – CSD has completed the design and is requesting authorization from the Council to proceed with the advertisement at its March Council meeting. This project is phase 2 of a three phase reconstruction of King Street. Phase 1 is replacement of storm sewers and Phase 3 is the street reconstruction. CSD will be assisting borough staff to conduct a property owners meeting in April.**
- Feb. 2019 – CSD has completed the survey and is 75% complete with ramp designs. The ramps to be replaced are at the following intersections: Hillcrest/Locust, Baltimore/Locust, Johns/Culp, Highland/Culp, and Fairview/Culp. The goal is to advertise for construction bids in March with construction running between May and July. The County has confirmed that the 2017 CDBG funds have been approved for use on this project.

King Street Stormwater Improvements (2383.5.23.00):

- **March 2019 – CSD completed the design and advertised the project for bids. Bids were opened on 3-7-19 and the low bidder appears to be C.E. Williams with a bid of \$68,953.00. CSD will be recommending award of this Contract at the March Council business meeting. This project is phase 1 of the three phased reconstruction of King Street. Construction is scheduled to begin early May.**
- Feb. 2019 - The project scheduled to advertise February 22 and February 25 with the bid opening scheduled for March 7, 2019. A bid tabulation will be prepared for presentation before the Council at the March 11<sup>th</sup> meeting.

Gettysburg Inner Loop – Segment A:

- **March 2019 – CSD had additional correspondence with the inspection agency and Borough staff during the first week of March to get the final paperwork and final payment to the Contractor closed out.**
- July 2018 – CSD has been working with the inspection agency, the contractor, and PennDOT representatives to complete the closeout and finalization paperwork on this project.

GARA Fill Site:

- **March 2019 – CSD has been coordinating with GARA for the use of the southeastern corner of the park as a fill site to deposit over 400 truckloads of fill material being generated by several Borough projects this summer most notably the King Street and the Broadway projects. GARA has approved the concept. CSD is pushing ahead with the NPDES permitting with the County Conservation District in an attempt to have it ready for the first two phases of King Street. A memorandum of understanding is being drafted that will outline each party's responsibilities and will be presented to the Borough Council at their March Workshop meeting.**

**OTHER PROJECTS:****Flood Mapping and Ordinance:**

- **March 2019 – Borough Council requested that CSD provide a letter to all property owners who are affected by the new flood maps which were delivered on approximately Feb 15. Since then CSD has fielded about a dozen calls from property owners. Most of the calls were just to provide clarity or gain additional information. So far 2 property owners wish to appeal. FEMA has ruled that the appeals must come through the Borough so CSD will assist those property owners in submitting the paperwork to FEMA prior to the March 20, 2019 deadline.**
- Jan. 2019 – A letter dated 12-6-18 was received notifying the Borough of the proposed flood mapping changes and giving instruction on the appeal process. CSD will continue to advise the Borough on how to address this topic.
- July 2018 – In our capacity as the Borough's Floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the Spring of 2019. At that time we'll be given 6 months to update our ordinance. In the meantime CSD will work with Borough Staff in contacting the affected individuals.

**Municipal Separate Storm Sewer System (MS4):**

- **March 2019 – CSD has completed the ERU calculations and provided a memorandum to the Borough with the proposed Tier structure. CSD has also been assisting Borough Staff with development of the budget.**
- Jan. 2019 – CSD has been preparing the mapping and review of existing BMPs necessary for the creation of the Equivalent Residential Unit Rate structure. This item will be transferred to the GBSWA meeting agenda moving forward now that it has been established.

**Gettysburg Borough Security Tracking Sheet (Active Projects as of: 12/31/18)**

<b>Development Name</b>	<b>Owner</b>	<b>Engineer's #</b>	<b>Original Security Amount</b>	<b>Security Amount Remaining</b>	<b>Reduction #1</b>	<b>Reduction #2</b>	<b>Reduction #3</b>
Penn Square Townhomes	Time Square II, Inc.	2383.3.16.07	\$198,867.57	\$198,867.57			
Gettysburg Middle School	GASD	2383.3.07.26	\$5,098,600.65	\$135,689.40	\$928,719.00	\$3,849,277.85	\$184,914.40
Best Western Hotel	S&W Development Corp.	2383.3.02.07	\$376,429.35	\$92,773.85	\$283,655.50		
Welcome Center	Gettysburg College	2383.3.10.03	\$49,459.30	\$49,459.30			
College Union Bldg. Addition	Gettysburg College	2383.3.07.36	\$314,752.90	\$314,752.90			
CNG Fueling Station	Central PA Transit Authority	2383.3.01.15	\$52,243.13	\$52,243.13			

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**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

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**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Mark Gettysburg (Walmart in Straban):

- Dec. 2018 – CSD received a new Transportation Impact Study Packet dated 11-7-18. CSD will provide comments to the Borough regarding any impact to the Borough.
- Aug. 2018 – CSD reviewed the proposed changes to the traffic signal at the intersection of York Road with Hanover Street and is currently working with the Parking Department to provide a response to the developer on how the proposal will effect on street parking. CSD has discussed this project with the planning commission which recommended that the development include pedestrian accessibility along the proposed Hanover Street Entrance.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

Broadway Street Improvements:

- Jan. 2019 – CSD prepared updated sketch plans including one new option showing shifted Islands on W. Broadway and three new options showing speed tables and a centrally located circle on E. Broadway. The goal is to get direction on the options at the January Council Workshop meeting so that design can begin.
- Dec. 2018 – CSD prepared a sketch plan for E. Broadway which shows curb bumps and a speed table to address property owner concerns about traffic safety. CSD also attended several meetings with property owners to review options for improvements to Broadway. The goal is to narrow the options enough to start the design in January which would allow time to complete the design, permitting, and construction bidding for a July start of construction. This is separate from GMA's waterline replacement which is expected to be underway prior to July so that it can be complete in advance of the finished paving. The goal is to complete all construction prior to Oct. 30, 2019 but if the project gets delayed for any reason there is a chance that weather dependent surface restorations may need to wait until spring of 2020.

Stratton Street Storm Sewer (2383.4.50.00):

- Feb. 2019 - Application for Payment No. 5 has been processed for work completed through 1/31/19 in the amount of \$36,879.00 bringing the total paid to date to \$562,183.58. At this point the new Storm Sewer has been installed. The Contractor (as well as Columbia Gas's Contractor) will be working on surface restorations such as curb and sidewalk between now and April. The trench paving associated with this project will be done in April and full width street overlay in May.

Stratton Street Pavement Improvements (2383.4.68.00):

- Feb. 2019 - The project advertised January 24 and January 28 with the bid opening scheduled for February 8, 2019. A bid tabulation will be prepared for presentation before the Council on February 11<sup>th</sup> in anticipation of an award.

2019 CDBG Curb Ramp Replacements (2383.4.66.00)

- Feb. 2019 – CSD has completed the survey and is 75% complete with ramp designs. The ramps to be replaced are at the following intersections: Hillcrest/Locust, Baltimore/Locust, Johns/Culp, Highland/Culp, and Fairview/Culp. The goal is to advertise for construction bids in March with construction running between May and July. The County has confirmed that the 2017 CDBG funds have been approved for use on this project.

King Street Stormwater Improvements (2383.5.23.00):

- Feb. 2019 - The project scheduled to advertised February 22 and February 25 with the bid opening scheduled for March 7, 2019. A bid tabulation will be prepared for presentation before the Council at the March 11<sup>th</sup> meeting.

Gettysburg Inner Loop – Segment A:

- July 2018 – CSD has been working with the inspection agency, the contractor, and PennDOT representatives to complete the closeout and finalization paperwork on this project.

**OTHER PROJECTS:**

Flood Mapping and Ordinance:

- Jan. 2019 – A letter dated 12-6-18 was received notifying the Borough or the proposed flood mapping changes and giving instruction on the appeal process. CSD will continue to advise the Borough on how to address this topic.
- July 2018 – In our capacity as the Borough's Floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough Flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the Spring of 2019. At that time we'll be given 6 months to update our ordinance. In the mean-time CSD will work with Borough Staff in contacting the affected individuals.

Municipal Separate Storm Sewer System (MS4):

- Jan. 2019 – CSD has been preparing the mapping and review of existing BMPs necessary for the creation of the Equivalent Residential Unit Rate structure. This item will be transferred to the GBSWA meeting agenda moving forward now that it has been established.

SALDO and Construction and Materials Specifications:

- Nov. 2018 – CSD reviewed the draft document for advertisement from the Solicitors office and provided comment at the P.C. meeting and the Supervisors meeting. CSD has been actively contributing to discussions by the Planning Commission regarding separation of utilities and addition of a party wall on duplex subdivisions. CSD has also corresponded with County Planning on their review.
- Aug. 2018 - CSD completed updates to the Subdivision and Land Development Ordinance. CSD also provided a complete set of Construction and Materials Specifications for adoption by the Borough. These documents, specifically the SALDO have been reviewed extensively by the Planning Commission and are ready to be placed on the Borough council agenda for advertisement and adoption.

Entries are listed in reverse chronological order. **Bolded entries are new.**

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

***The security tracking spreadsheet has not been changed this month.*** Inspection Reports are kept on file for all land developments under construction and can be provided upon request.

**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Mark Gettysburg (Walmart in Straban):

- Dec. 2018 – CSD received a new Transportation Impact Study Packet dated 11-7-18. CSD will provide comments to the Borough regarding any impact to the Borough.
- Aug. 2018 – CSD reviewed the proposed changes to the traffic signal at the intersection of York Road with Hanover Street and is currently working with the Parking Department to provide a response to the developer on how the proposal will effect on street parking. CSD has discussed this project with the planning commission which recommended that the development include pedestrian accessibility along the proposed Hanover Street Entrance.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

Broadway Street Improvements:

- **Jan. 2019 – CSD prepared updated sketch plans including one new option showing shifted Islands on W. Broadway and three new options showing speed tables and a centrally located circle on E. Broadway. The goal is to get direction on the options at the January Council Workshop meeting so that design can begin.**
- Dec. 2018 – CSD prepared a sketch plan for E. Broadway which shows curb bumps and a speed table to address property owner concerns about traffic safety. CSD also attended several meetings with property owners to review options for improvements to Broadway. The goal is to narrow the options enough to start the design in January which would allow time to complete the design, permitting, and construction bidding for a July start of construction. This is separate from GMA's waterline replacement which is expected to be underway prior to July so that it can be complete in advance of the finished paving. The goal is to complete all construction prior to Oct. 30, 2019 but if the project gets delayed for any reason there is a chance that weather dependent surface restorations may need to wait until spring of 2020.

2018 Bridge Maintenance:

- **Jan. 2019 – Lobar Associates has completed the punch list. They are requesting final payment in the amount of \$47,531.75. CSD reviewed Application for Payment No. 1 and recommends approval.**
- Dec. 2018 – A substantial completion was issued on Nov. 23<sup>rd</sup> for the contracted work with Lobar. They will be completing punch list items during by Dec. 7. CSD has been overseeing construction as necessary and Inspection reports are kept on file. The pedestrian hand rails will be delivered by LB Foster the week of Dec. 5 and will be installed as time permits by the Public Works Department. We expect final payment to both contractors in January.

Stratton Street Storm Sewer (2383.4.50.00):

- **Jan. 2019 - Change Order No. 4 has been issued in the amount of \$11,505.58 for the installation of 27 L.F. of 8" dia. SDR 35 and associated 4' diameter sanitary sewer manhole within the PennDOT ROW. This Change Order is needed to relocate sanitary sewer due to conflicts encountered within York Street. Application for Payment No. 4 has been processed for work completed through 12/21/18 in the amount of \$115,079.79 bringing the total paid to date to \$499,235.07. At this point the new Storm Sewer has been installed. The contractor (as well as Columbia Gas's Contractor) will be working on surface restorations such as curb and sidewalk between now and April. The trench paving associated with this project will be done in April and full width street overlay in May.**

Gettysburg Inner Loop – Segment A:

- July 2018 – CSD has been working with the inspection agency, the contractor, and PennDOT representatives to complete the closeout and finalization paperwork on this project.

**OTHER PROJECTS:**Flood Mapping and Ordinance:

- **Jan. 2019 – A letter dated 12-6-18 was received notifying the Borough or the proposed flood mapping changes and giving instruction on the appeal process. CSD will continue to advise the Borough on how to address this topic.**
- July 2018 – In our capacity as the Borough's Floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough Flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the Spring of 2019. At that time we'll be given 6 months to update our ordinance. In the meantime CSD will work with Borough Staff in contacting the affected individuals.

Municipal Separate Storm Sewer System (MS4):

- **Jan. 2019 – CSD has been preparing the mapping and review of existing BMPs necessary for the creation of the Equivalent Residential Unit Rate structure. This item will be transferred to the GBSWA meeting agenda moving forward now that it has been established.**

SALDO and Construction and Materials Specifications:

- Nov. 2018 – CSD reviewed the draft document for advertisement from the Solicitors office and provided comment at the P.C. meeting and the Supervisors meeting. CSD has been actively contributing to discussions by the Planning Commission regarding separation of utilities and addition of a party wall on duplex subdivisions. CSD has also corresponded with County Planning on their review.
- Aug. 2018 - CSD completed updates to the Subdivision and Land Development Ordinance. CSD also provided a complete set of Construction and Materials Specifications for adoption by the Borough. These documents, specifically the SALDO have been reviewed extensively by the Planning Commission and are ready to be placed on the Borough council agenda for advertisement and adoption.

Entries are listed in reverse chronological order. **Bolded entries are new.**

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

***The security tracking spreadsheet has not been changed this month.*** Inspection Reports are kept on file for all land developments under construction and can be provided upon request.

**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Mark Gettysburg (Walmart in Straban):

- **Dec. 2018 – CSD received a new Transportation Impact Study Packet dated 11-7-18. CSD will provide comments to the Borough regarding any impact to the Borough.**
- Aug. 2018 – CSD reviewed the proposed changes to the traffic signal at the intersection of York Road with Hanover Street and is currently working with the Parking Department to provide a response to the developer on how the proposal will effect on street parking. CSD has discussed this project with the planning commission which recommended that the development include pedestrian accessibility along the proposed Hanover Street Entrance.

Gottfried Holdings, LLC (42-44 North Stratton Street) Subdivision:

- **Dec. 2018 – The plan was conditionally approved and the P.C. granted a waiver of the utility separation for the Duplex Subdivision.**
- Nov. 2018 – The Developer indicated interest in requesting a waiver of utility separation. CSD intervened with discussion regarding the ease of separating utilities while the Stratton Street project is under construction and cost of paving and new curb/sidewalks is already covered.
- Oct. 2018 – CSD reviewed the plan dated 7-31-18 and issued a letter dated 9-17-18 with 4 comments.
- Sept. 2018 – CSD received this Final Minor Subdivision plan and will be providing comments for the September P.C. meeting.

Ridge Rentals, LLC (321-323 York Street) Subdivision:

- **Dec. 2018 – The plan was conditionally approved and the P.C. granted a waiver of the utility separation for the Duplex Subdivision.**
- Oct. 2018 – CSD reviewed the plan dated 7-31-18 and issued a letter dated 9-17-18 with 4 comments.
- Sept. 2018 – CSD received this Final Minor Subdivision plan and will be providing comments for the September P.C. meeting.

Innstyle, Inc. (113-115 Hanover St.) Subdivision:

- **Dec. 2018 The P.C. granted a waiver of the utility separation for the Duplex Subdivision.**

LaBella Italia Lot Combination and Land Development:

- **Dec. 2018 – CSD has been providing inspection on the construction of the permeable pavement parking lot. CSD required a clay dike/berm to be added to assure subsurface water would not leak onto the downstream neighboring property owner.**
- Oct. 2018 – The stormwater management agreement was placed on the October Council Agenda for approval.
- Sept. 2018 – CSD received a revised plan and stormwater management report dated 8-16-18 which reflects a zoning variance approved on 8-1-2018 to allow parking within the Side Lot. The plan was previously conditionally approved in August of 2017. CSD will be reviewing the revisions to make sure they are consistent with the current conditional approval. This revision was discussed at the August P.C. meeting. The P.C. had no exception with forwarding this plan on for final approval and recordation once the conditions of approval have been addressed.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:****Broadway Street Improvements:**

- **Dec. 2018 – CSD prepared a sketch plan for E. Broadway which shows curb bumps and a speed table to address property owner concerns about traffic safety. CSD also attended several meetings with property owners to review options for improvements to Broadway. The goal is to narrow the options enough to start the design in January which would allow time to complete the design, permitting, and construction bidding for a July start of construction. This is separate from GMA's waterline replacement which is expected to be underway prior to July so that it can be complete in advance of the finished paving. The goal is to complete all construction prior to Oct. 30, 2019 but if the project gets delayed for any reason there is a chance that weather dependent surface restorations may need to wait until spring of 2020.**
- Nov. 2018 – Per the direction from Council at the Oct. Workshop meeting, CSD has been working with the Borough Manager to get input from property owners. A Town Hall meeting is scheduled for Nov. 8. CSD has completed the survey and is prepared to begin the design once a concrete decision is made on the islands.
- Oct. 2018 – CSD has developed a sketch plan of improvements to the three blocks of Broadway from College Ave. to Old Harrisburg Road to get quantities to complete a cost estimate for this work. This was discussed at the Sept. Council Workshop meeting. The Borough has authorized the design phase of the features shown on the sketch plan. CSD has scheduled survey and has started coordinating efforts with GMA who intends on installing a new water line on the same portion of Broadway Street.

**2018 Bridge Maintenance:**

- **Dec. 2018 – A substantial completion was issued on Nov. 23<sup>rd</sup> for the contracted work with Lobar. They will be completing punch list items during by Dec. 7. CSD has been overseeing construction as necessary and Inspection reports are kept on file. The pedestrian hand rails will be delivered by LB Foster the week of Dec. 5 and will be installed as time permits by the Public Works Department. We expect final payment to both contractors in January.**
- Nov. 2018 – The construction by Lobar has commenced. CSD has been providing inspection as necessary. CSD has also been coordinating the manufacturing of the pedestrian hand rails by LB Foster. The expected delivery time for the hand rails is first week of December. The Borough Public Works Department will begin installing the hand rails once received.
- Oct. 2018 – A preconstruction meeting is scheduled for 10-4-18. CSD has been reviewing shop drawings and coordinating between the contractors for the manufacturing of the railing and the concrete work. The coordination efforts have been going well but are taking a little longer than expected. Therefore, the contractor anticipates that they'll need two additional weeks to finish all work. A change order extending the deadline from Nov. 9 to Nov. 23<sup>rd</sup> has been placed on the Oct. Council Agenda for approval.
- Sept. 2018 - Lobar Associates was awarded the contract for the construction/maintenance project at the August 13, 2018 meeting. We have issued a Notice to Proceed for September 10, 2018 with a Substantial Completion date of November 9, 2018. L.B. Foster was awarded the contract for the installation of the hand rail.

**2018 Racehorse Alley Parking Garage Maintenance (2383.8.09.18):**

- **Dec. 2018 – An application payment is has been added to the Dec. Council Business meeting for approval. CSD is also processing all contract closeout documents.**
- Nov. 2018 – The maintenance construction is complete. The Borough Public Works Department is working on re-painting the pavement marks. CSD is working on finalizing all quantities for the Application for Payment.
- Oct. 2018 – Construction has commenced. CSD is overseeing and attending progress meetings as necessary.
- Sept. 2018 – Bids have been received and the project was awarded to Structural Restoration Services Inc. at the 8-27-18 council meeting. Contract documents are currently being developed. The contracted maintenance work is scheduled to be completed in October.

Stratton Street Storm Sewer (2383.4.50.00):

- **Dec. 2018 – Overnight work for the installation of the storm pipe across York Street was completed the night of Nov. 28 through Nov. 29. Since most of the remaining storm pipe has been installed with exception of a few laterals. An unforeseen sewer arrangement has caused a change to be made to the pipe which crosses York Street. A supplement has been submitted to PennDOT for approval of this work. Also GMA and Columbia Gas have been involved with the coordination of this utility conflict. It is expected that the remainder of the storm sewer installation work will be complete by the end of this year. That said, a time extension has been submitted to council for approval to extend the contract time until May 1 2019 to allow surface restorations to be completed when temperatures are suitable. Also an application for payment # 3 has been processed for work completed through 11/30/18 in the amount of \$85,095.01 bringing the total paid to date to \$384,155.30.**
- Nov. 2018 – CSD reported at the Oct. Council Workshop that CSX made a last-minute change which required continuous boring and asked that CSD and Borough Staff notify property owners of this, potentially noisy, activity. Door hangers were hung. The Boring started on Oct 30 and concluded on Nov. 2<sup>nd</sup>. During that time no complaints were heard by the Borough Staff or CSD. It is still too early to tell if the “continuous bore” will add to the budget for the professional services including payments to CSX for their flaggers. The good news is that less than expected amount of rock was witnessed which should result in a cost savings when quantities are calculated. Application for Payment #2 has been processed in the amount of \$261,854.10. CSD has reviewed this application and recommends approval.
- Oct. 2018 – Columbia Gas and GMA’s utility line work is substantially complete which has allowed our contractor to move ahead. The contractor has also completed the lowering of sewer laterals to make way for the new storm pipe. The contractor has begun to install the new storm pipe. CSD has been providing inspection on these efforts. CSD has also been helping to coordinate the clearances from CSX for the boring under the railway which is plenty complicated. The CSX coordination is the only significant complication so far. It’s too early to determine if the CSX complication will cause any change in cost or time at this point. As of now the completion date remains December 18, 2018 with paving to happen in April of 2019.
- Sept. 2018 – Change Order No. 1 has been issued in the amount of \$29,287.75 for the paving on Barlow Street, Pine Street, and Victor Street as part of the 2018 Street Improvements project. Change Order No. 2 has also been issued to extend the Contract Time from 100 days to 200 days to allow for Columbia Gas work to be completed. The Substantial Completion date will now be December 18, 2018. Application for Payment No. 1 was submitted in the amount of \$37,206.18 for work completed through 8/31/18. We concur with the request for Payment and recommend approval accordingly.

Gettysburg Inner Loop – Segment A:

- July 2018 – CSD has been working with the inspection agency, the contractor, and PennDOT representatives to complete the closeout and finalization paperwork on this project.

**OTHER PROJECTS:**Flood Mapping and Ordinance:

- July 2018 – In our capacity as the Borough’s Floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough Flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the Spring of 2019. At that time we’ll be given 6 months to update our ordinance. In the meantime CSD will work with Borough Staff in contacting the affected individuals.

Municipal Separate Storm Sewer System (MS4):

- **Dec. 2018 – An ordinance adopting the authority has been approved by Borough Council. CSD has begun the cumbersome work of determining the amount of impervious area on each parcel in the Borough which will be used to determine the fee.**
- Nov. 2018 – CSD presented and addressed comments about the MS4 program at a Town Hall on 10-25-18.
- Oct. 2018 – CSD has completed the updates to the Pollution Reduction Plan as was discussed at the recent public hearings. The revised plan is being submitted to DEP for review. CSD has been working on developing the mapping that is needed to determine the tiers of impervious area that will be used to fund the stormwater authority. CSD has also started estimating the total cost that will be necessary to operate the stormwater authority.

SALDO and Construction and Materials Specifications:

- Nov. 2018 – CSD reviewed the draft document for advertisement from the Solicitors office and provided comment at the P.C. meeting and the Supervisors meeting. CSD has been actively contributing to discussions by the Planning Commission regarding separation of utilities and addition of a party wall on duplex subdivisions. CSD has also corresponded with County Planning on their review.
- Aug. 2018 - CSD completed updates to the Subdivision and Land Development Ordinance. CSD also provided a complete set of Construction and Materials Specifications for adoption by the Borough. These documents, specifically the SALDO have been reviewed extensively by the Planning Commission and are ready to be placed on the Borough council agenda for advertisement and adoption.

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*Entries are listed in reverse chronological order. **Bolded entries are new.***

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

***The security tracking spreadsheet has not been changed this month.*** *Inspection Reports are kept on file for all land developments under construction and can be provided upon request.*

**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Mark Gettysburg (Walmart in Straban):

- Aug. 2018 – CSD reviewed the proposed changes to the traffic signal at the intersection of York Road with Hanover Street and is currently working with the Parking Department to provide a response to the developer on how the proposal will effect on street parking. CSD has discussed this project with the planning commission which recommended that the development include pedestrian accessibility along the proposed Hanover Street Entrance.

Gottfried Holdings, LLC (42-44 North Stratton Street) Subdivision:

- **Nov. 2018 – The Developer indicated interest in requesting a waiver of utility separation. CSD intervened with discussion regarding the ease of separating utilities while the Stratton Street project is under construction and cost of paving and new curb/sidewalks is already covered.**
- Oct. 2018 – CSD reviewed the plan dated 7-31-18 and issued a letter dated 9-17-18 with 4 comments.
- Sept. 2018 – CSD received this Final Minor Subdivision plan and will be providing comments for the September P.C. meeting.

Ridge Rentals, LLC (321-323 York Street) Subdivision:

- Oct. 2018 – CSD reviewed the plan dated 7-31-18 and issued a letter dated 9-17-18 with 4 comments.
- Sept. 2018 – CSD received this Final Minor Subdivision plan and will be providing comments for the September P.C. meeting.

LaBella Italia Lot Combination and Land Development:

- Oct. 2018 – The stormwater management agreement was placed on the October Council Agenda for approval.
- Sept. 2018 – CSD received a revised plan and stormwater management report dated 8-16-18 which reflects a zoning variance approved on 8-1-2018 to allow parking within the Side Lot. The plan was previously conditionally approved in August of 2017. CSD will be reviewing the revisions to make sure they are consistent with the current conditional approval. This revision was discussed at the August P.C. meeting. The P.C. had no exception with forwarding this plan on for final approval and recordation once the conditions of approval have been addressed.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

Broadway Street Improvements:

- **Nov. 2018 – Per the direction from Council at the Oct. Workshop meeting, CSD has been working with the Borough Manager to get input from property owners. A Town Hall meeting is scheduled for Nov. 8. CSD has completed the survey and is prepared to begin the design once a concrete decision is made on the islands.**
- Oct. 2018 – CSD has developed plan of improvements to the three blocks of Broadway from College Ave. to Old Harrisburg Road to get quantities to complete a cost estimate for this work. This was discussed at the Sept. Council Workshop meeting. The Borough has authorized the design phase of the features shown on the sketch plan. CSD has scheduled survey and has started coordinating efforts with GMA who intends on installing a new water line on the same portion of Broadway Street.

2018 Bridge Maintenance:

- **Nov. 2018 – The construction by Lobar has commenced. CSD has been providing inspection as necessary. CSD has also been coordinating the manufacturing of the pedestrian hand rails by LB Foster. The expected delivery time for the hand rails is first week of December. The Borough Public Works Department will begin installing the hand rails once received.**
- Oct. 2018 – A preconstruction meeting is scheduled for 10-4-18. CSD has been reviewing shop drawings and coordinating between the contractors for the manufacturing of the railing and the concrete work. The coordination efforts have been going well but are taking a little longer than expected. Therefore, the contractor anticipates that they'll need two additional weeks to finish all work. A change order extending the deadline from Nov. 9 to Nov. 23<sup>rd</sup> has been placed on the Oct. Council Agenda for approval.
- Sept. 2018 - Lobar Associates was awarded the contract for the construction/maintenance project at the August 13, 2018 meeting. We have issued a Notice to Proceed for September 10, 2018 with a Substantial Completion date of November 9, 2018. L.B. Foster was awarded the contract for the installation of the hand rail.

2018 Racehorse Alley Parking Garage Maintenance (2383.8.09.18):

- **Nov. 2018 – The maintenance construction is complete. The Borough Public works department is working on re-painting the pavement marks. CSD is working on finalizing all quantities for the Application for Payment.**
- Oct. 2018 – Construction has commenced. CSD is overseeing and attending progress meetings as necessary.
- Sept. 2018 – Bids have been received and the project was awarded to Structural Restoration Services Inc. at the 8-27-18 council meeting. Contract documents are currently being developed. The contracted maintenance work is scheduled to be completed in October.

2018 CDBG Curb Ramp Replacements (2383.4.59.00):

- **Nov. 2018 – CSD is complete with the survey of the ramps on King Street which was done under the 2018 budget. The basemapping will be shelved until January when we will start the design included in the 2019 budget.**
- Oct. 2018 – The punch list items have been addressed. The final payment of the \$1000 retainage has been placed on the Oct. Council Meeting for approval. CSD has also scheduled survey for the 2019 Curb Ramp Replacements which is necessary to be complete prior to sidewalks being covered with snow.

Stratton Street Storm Sewer (2383.4.50.00):

- **Nov. 2018 – CSD reported at the Oct. Council Workshop that CSX made a last minute change which required continuous boring and asked that CSD and Borough Staff notify property owners of this, potentially noisy, activity. Door hangers were hung. The Boring started on Oct 30 and concluded on Nov. 2<sup>nd</sup>. During that time no complaints were heard by the Borough Staff or CSD. It is still too early to tell if the “continuous bore” will add to the budget for the professional services including payments to CSX for their flaggers. The good news is that less than expected amount of rock was witnessed which should result in a cost savings when quantities are calculated. Application for Payment #2 has been processed in the amount of \$261,854.10. CSD has reviewed this application and recommends approval.**
- Oct. 2018 – Columbia Gas and GMA's utility line work is substantially complete which has allowed our contractor to move ahead. The contractor has also completed the lowering of sewer laterals to make way for the new storm pipe. The contractor has begun to install the new storm pipe. CSD has been providing inspection on these efforts. CSD has also been helping to coordinate the clearances from CSX for the boring under the railway which is plenty complicated. The CSX coordination is the only significant complication so far. It's too early to determine if the CSX complication will cause any chance in cost or time at this point. As of now the completion date remains December 18, 2018 with paving to happen in April of 2019.

- Sept. 2018 – Change Order No. 1 has been issued in the amount of \$29,287.75 for the paving on Barlow Street, Pine Street, and Victor Street as part of the 2018 Street Improvements project. Change Order No. 2 has also been issued to extend the Contract Time from 100 days to 200 days to allow for Columbia Gas work to be completed. The Substantial Completion date will now be December 18, 2018. Application for Payment No. 1 was submitted in the amount of \$37,206.18 for work completed through 8/31/18. We concur with the request for Payment and recommend approval accordingly.

#### Gettysburg Inner Loop – Segment A:

- July 2018 – CSD has been working with the inspection agency, the contractor, and PennDOT representatives to complete the closeout and finalization paperwork on this project.
- June 2018 – The project has been deemed substantially complete. The contractor is working on punch list items. Also the final quantities for final payment to the contractor are being worked out by The Borough's inspection agency with assistance from PennDOT.

#### **OTHER PROJECTS:**

##### Flood Mapping and Ordinance:

- July 2018 – In our capacity as the Borough's Floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough Flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the Spring of 2019. At that time we'll be given 6 months to update our ordinance. In the meantime CSD will work with Borough Staff in contacting the affected individuals.

##### Municipal Separate Storm Sewer System (MS4):

- **Nov. 2019 – CSD presented and addressed comments about the MS4 program at a Town Hall on 10-25-18.**
- Oct. 2018 – CSD has completed the updates to the Pollution Reduction Plan as was discussed at the recent public hearings. The revised plan is being submitted to DEP for review. CSD has been working on developing the mapping that is needed to determine the tiers of impervious area that will be used to fund the stormwater authority. CSD has also started estimating the total cost that will be necessary to operate the stormwater authority.

##### SALDO and Construction and Materials Specifications:

- **Nov. 2018 – CSD reviewed the draft document for advertisement from the Solicitors office and provided comment at the P.C. meeting and the Supervisors meeting. CSD has been actively contributing to discussions by the Planning Commission regarding separation of utilities and addition of a party wall on duplex subdivisions. CSD has also corresponded with County Planning on their review.**
- Aug. 2018 - CSD completed updates to the Subdivision and Land Development Ordinance. CSD also provided a complete set of Construction and Materials Specifications for adoption by the Borough. These documents, specifically the SALDO have been reviewed extensively by the Planning Commission and are ready to be placed on the Borough council agenda for advertisement and adoption.

Entries are listed in reverse chronological order. **Bolded entries are new.**

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

***The security tracking spreadsheet has been updated and is attached to this report. Inspection Reports are kept on file for all land developments under construction and can be provided upon request.***

**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Mark Gettysburg (Walmart in Straban):

- Aug. 2018 – CSD reviewed the proposed changes to the traffic signal at the intersection of York Road with Hanover Street and is currently working with the Parking Department to provide a response to the developer on how the proposal will effect on street parking. CSD has discussed this project with the planning commission which recommended that the development include pedestrian accessibility along the proposed Hanover Street Entrance.

Gottfried Holdings, LLC (42-44 North Stratton Street) Subdivision:

- **Oct. 2018 – CSD reviewed the plan dated 7-31-18 and issued a letter dated 9-17-18 with 4 comments.**
- Sept. 2018 – CSD received this Final Minor Subdivision plan and will be providing comments for the September P.C. meeting.

Ridge Rentals, LLC (321-323 York Street) Subdivision:

- **Oct. 2018 – CSD reviewed the plan dated 7-31-18 and issued a letter dated 9-17-18 with 4 comments.**
- Sept. 2018 – CSD received this Final Minor Subdivision plan and will be providing comments for the September P.C. meeting.

LaBella Italia Lot Combination and Land Development:

- **Oct. 2018 – The stormwater management agreement was placed on the October Council Agenda for approval.**
- Sept. 2018 – CSD received a revised plan and stormwater management report dated 8-16-18 which reflects a zoning variance approved on 8-1-2018 to allow parking within the Side Lot. The plan was previously conditionally approved in August of 2017. CSD will be reviewing the revisions to make sure they are consistent with the current conditional approval. This revision was discussed at the August P.C. meeting. The P.C. had no exception with forwarding this plan on for final approval and recordation once the conditions of approval have been addressed.

Ruth, Chiarelli, and Adams Co. Arts Council Stormwater Management Plans:

- **Oct. 2018 – CSD provided comment letters for all three plans. The comments on all three have been addressed and CSD has issued approval letters. Stormwater agreements for all three have been placed on the October Council Agenda for Approval.**
- Sept. 2018 – CSD is currently reviewing stormwater management plans for Adams Co. Arts Council at 125 Washington St., Ruth Residence at 812 Long Lane and Chiarelli Garage at 512 Carlisle Street. These plans fall under the 5000 square foot of impervious coverage exemption for stormwater rate control and public meeting review process. Thusly the plans will be reviewed and approved administratively by the Planning Director once a recommendation is provided from the engineer.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:****Broadway Street Improvements:**

- **Oct. 2018 – CSD has developed a sketch plan of improvements to the three blocks of Broadway from College Ave. to Old Harrisburg Road as well as a cost estimate for this work. This was discussed at the Sept. Council Workshop meeting. The Borough has authorized the design phase of the features shown on the sketch plan. CSD has scheduled survey and has started coordinating efforts with GMA who intends on installing a new water line on the same portion of Broadway Street.**

**2018 Bridge Maintenance:**

- **Oct. 2018 – A preconstruction meeting is scheduled for 10-4-18. CSD has been reviewing shop drawings and coordinating between the contractors for the manufacturing of the railing and the concrete work. The coordination efforts have been going well but are taking a little longer than expected. Therefore the contractor anticipates that they'll need two additional weeks to finish all work. A change order extending the deadline from Nov. 9 to Nov. 23<sup>rd</sup> has been placed on the Oct. Council Agenda for approval.**
- Sept. 2018 - Lobar Associates was awarded the project at the August 13, 2018 meeting. We have issued a Notice to Proceed for September 10, 2018 with a Substantial Completion date of November 9, 2018.

**2018 Racehorse Alley Parking Garage Maintenance (2383.8.09.18):**

- **Oct. 2018 – Construction has commenced. CSD is overseeing and attending progress meetings as necessary.**
- Sept. 2018 – Bids have been received and the project was awarded to Structural Restoration Services Inc. at the 8-27-18 council meeting. Contract documents are currently being developed. The contracted maintenance work is scheduled to be completed in October.
- Aug. 2018 – Construction Bids are due on 8-9-18 at 10:00 AM. CSD will provide a bid tabulation and recommendation for award at the 8-13-18 council meeting.
- July 2018 – After inspecting the next two decks CSD found that the estimated construction cost was in the \$20k to \$30k range which doesn't meet the goal of completing closer to \$50k worth of maintenance in attempt to attract more/qualified contractors. Thus we have decided to add a third deck to the maintenance this year. This is good news as this will help us get caught up with the years lost not getting any contractors to bid.
- June 2018 – CSD has initiated efforts on this project. As a reminder we have discontinued the old strategy of doing maintenance on one deck per year since we could not get any contractors to do the work on such a small scope of work. Thus beginning this year we'll be doing maintenance on at least two decks at a time (with an estimated construction budget of \$50k), and then only doing the maintenance every other year. We intend on bidding this project in July and completing construction in Sept./Oct. CSD will be coordinating this work with the Public Works and Parking Departments.

**2018 CDBG Curb Ramp Replacements (2383.4.59.00):**

- **Oct. 2018 – The punch list items have been addressed. The final payment of the \$1000 retainage has been placed on the Oct. Council Meeting for approval. CSD has also scheduled survey for the 2019 Curb Ramp Replacements which is necessary to be complete prior to sidewalks being covered with snow.**
- Aug. 2018 – The construction is substantially complete. CSD recommended an almost full payment to Kinsley for items complete. On the App for Payment dated 7/17/18, CSD recommended the retainage of \$1000 for the replacement of tree that was removed during construction. Otherwise the rest of the project is complete. The contract amount based on estimated quantities was \$95,147.20. The project came in under budget at \$87,239.31. CSD will work with the Contractor, Borough Staff, and County who administers the CDBG funds, to close out the project over the next month or two.
- June 2018 – Construction has commenced. The Borough Public Works Department is providing inspection with some assistance from CSD where needed. The ramps at Culp/Johns are being completed first in order to be done in advance of the ceremony to be held later this month. Substantial Completion date remains 7-28-18.

- May 2018 – The contract with Kinsley has been executed. A pre-construction meeting was held on 5-3-18. The notice to proceed with construction was set for 5-29-18. Substantial Completion date is 7-28-18.
- April 2018 – CSD advertised for construction bids. The Bids will be opened on 4-5-2018. CSD anticipates an award at the 4-9-18 Council meeting. Since two ramps at Johns/Culp and two ramps at Baltimore/Locust were eliminated, the budget allowed for the ramps at Gettys/Fairview and Highland/Johns to be added to this year's program. So, the current list of ramps that have been bid are as follows: Hillcrest/Locust, Johns/Culp, Highland/Culp, Fairview/Culp, Gettys/Fairview, Highland/Johns. Construction continues to be scheduled for May and July 2018.

#### 2018 Street Improvements:

- **Oct. 2018 – CSD provided inspection services on the paving of Pine, Victor, and Barlow Streets. CSD also provided survey drawings to the Public Works Department for the paving of Wolfe Alley.**
- Aug. 2018 – The base repairs on Pine, Victor, and Barlow streets have been completed by E.K. Services. The Base Repairs on Water Street will be done at the same time as the Base repairs on Stratton.
- July 2018 – PennDOT would not allow the base repairs on Pine, Victor, Barlow, and Water to be done with Liquid fuels money since this work is being done under the Stratton Street contract with E.K. Services which was bid with the intent of using Bond Money, not Liquid Fuels. Staff has developed a solution to use Liquid Fuels money for Culp Street instead which is relatively cost neutral. This way the same amount of money will be spent from both the Liquid Fuels and the Bond Funds.
- June 2018 – A work directive change has been administratively approved to complete the base repairs associated with Columbia Gas of PA's work on Barlow Street, E. Water Street, Pine Street, and Victor Street. The work directive change is technically a change to the Stratton Street Project however it will be tracked separately so that the Borough may use Liquid Fuels money to complete the work. The work directive change, based on estimated quantities, is \$34,152.25 for the base repairs. We will follow up with a contract Change Order once the actual quantities are complete and measured.

#### Stratton Street Storm Sewer (2383.4.50.00):

- **Oct. 2018 – Columbia Gas and GMA's utility line work is substantially complete which has allowed our contractor to move ahead. The contractor has also completed the lowering of sewer laterals to make way for the new storm pipe. The contractor has begun to install the new storm pipe. CSD has been providing inspection on these efforts. CSD has also been helping to coordinate the clearances from CSX for the boring under the railway which is plenty complicated. The CSX coordination is the only significant complication so far. It's too early to determine if the CSX complication will cause any chance in cost or time at this point. As of now the completion date remains December 18, 2018 with paving to happen in April of 2019.**
- Sept. 2018 – Change Order No. 1 has been issued in the amount of \$29,287.75 for the paving on Barlow Street, Pine Street, and Victor Street as part of the 2018 Street Improvements project. Change Order No. 2 has also been issued to extend the Contract Time from 100 days to 200 days to allow for Columbia Gas work to be completed. The Substantial Completion date will now be December 18, 2018. Application for Payment No. 1 was submitted in the amount of \$37,206.18 for work completed through 8/31/18. We concur with the request for Payment and recommend approval accordingly.
- Aug. 2018 – The materials (inlet boxes and pipe etc.) have been delivered. The actual start of construction has been delayed approximately one month to the beginning of September. It was decided that it was better to wait until Columbia Gas is completely out of the way and the abandoned gas lines are completely cut off and out of service. This will make it safer and more efficient for our Contractor when they start digging.
- July 2018 – CSD has been reviewing shop drawings and assisting with the production of the inlet boxes and manholes. The contractor will be mobilizing in July to start construction. The expected completion date continues to be mid-September. The new paved surface continues to be scheduled for spring 2019.

Gettysburg Inner Loop – Segment A:

- July 2018 – CSD has been working with the inspection agency, the contractor, and PennDOT representatives to complete the closeout and finalization paperwork on this project.
- June 2018 – The project has been deemed substantially complete. The contractor is working on punch list items. Also the final quantities for final payment to the contractor are being worked out by The Borough's inspection agency with assistance from PennDOT.

**OTHER PROJECTS:**Flood Mapping and Ordinance:

- July 2018 – In our capacity as the Borough's floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough Flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the spring of 2019. At that time we'll be given 6 months to update our ordinance. In the meantime CSD will work with Borough Staff in contacting the affected individuals.

Municipal Separate Storm Sewer System (MS4):

- **Oct. 2018 – CSD has completed the updates to the Pollution Reduction Plan as was discussed at the recent public hearings. The revised plan is being submitted to DEP for review. CSD has been working on developing the mapping that is needed to determine the tiers of impervious area that will be used to fund the stormwater authority. CSD has also started estimating the total cost that will be necessary to operate the stormwater authority.**
- Aug. 2018 – During the Bridge inspections, an eroded stream bank was discussed for maintenance associated with the bridge maintenance project at the Court Alley crossing of Culps Run. We've decided to add this project to the PRP to get credit for the proposed work. No other public comments were received during the public comment period. At this point we've made all updates to the plan and will be submitting to DEP within the next few weeks. Also, a scheduled has been developed for the development of a Stormwater Authority to fund the MS4 and storm sewer replacement program.
- July 2018 – CSD met with representatives from the Gettysburg National Military Park as well as Borough staff to discuss the potential of using Culps Run as a project. This meeting went well and the Park members suggested that this is a real possibility. In fact there is a possibility for more of this stream to be included than initially expected which may allow us to eliminate a more costly project from the pollution reduction plan. As always, this plan will be continually evaluated and updated as necessary as these projects evolve.
- June 2018 – CSD presented the updates to the PRP. The updated plan will need to be advertised and then approved at the July Council Meeting. CSD is also providing guidance on the funding efforts as presented at the May Workshop meeting.
- May 2018 – CSD is working on updates to the (PRP) Pollution Reduction Plan and will be presenting the updates to the Council at the May workshop meeting. CSD has also started some discussions with Borough staff regarding the funding strategy.

SALDO and Construction and Materials Specifications:

- Aug. 2018 - CSD completed updates to the Subdivision and Land Development Ordinance. CSD also provided a complete set of Construction and Materials Specifications for adoption by the Borough. These documents, specifically the SALDO have been reviewed extensively by the Planning Commission and are ready to be placed on the Borough council agenda for advertisement and adoption.

**Gettysburg Borough Security Tracking Sheet (Active Projects as of: 10/3/18)**

Development Name	Owner	Engineer's #	Original Security Amount	Security Amount Remaining	Reduction #1	Reduction #2	Reduction #3	Reduction #4	Final Release	Structural Integrity Date	Structural Integrity Amount	Structural Integrity Exp. Date	Estimated Construction Schedule	
													Start	End
Penn Square Townhomes	Time Square II, Inc.	2383.3.16.07	\$198,867.57	\$198,867.57							N/A		Unknown	
Gettysburg Hospital	Gettysburg Hospital	2383.3.07.24	\$397,915.65	\$0.00	\$397,915.65						N/A		Sept. 2010	
Gettysburg Middle School	GASD	2383.3.07.26	\$5,098,600.65	\$135,689.40	\$928,719.00	\$3,849,277.85	\$184,914.40				N/A		Sum. 2012	
Best Western Hotel	S&W Development Corp.	2383.3.02.07	\$376,429.35	\$92,773.85	\$283,655.50						N/A		Sum. 2016	Sum. 2017
Welcome Center	Gettysburg College	2383.3.10.03	\$49,459.30	\$49,459.30							N/A		Dec. 2016	March 2018
FourSquare Gospel Church	Foursquare Gospel Church	2383.3.06.08	\$264,719.40	\$0.00	\$264,719.40						N/A		Fall 2016	Spring 2018
College Union Bldg. Addition	Gettysburg College	2383.3.07.36	\$314,752.90	\$314,752.90							N/A		Sum. 2017	Sum. 2018
CNG Fueling Station	Central PA Transit Authority	2383.3.01.15	\$52,243.13	\$52,243.13							N/A			

Entries are listed in reverse chronological order. **Bolded entries are new.**

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

***The security tracking spreadsheet has not been updated this month.*** Inspection Reports are kept on file for all land developments under construction and can be provided upon request.

Foursquare Gospel Church:

- **Sept. 2018 – CSD provided inspection on the completed public improvements associated with the Land Development. CSD issued a letter recommending full release of security.**

**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Mark Gettysburg (Walmart in Straban):

- Aug. 2018 – CSD reviewed the proposed changes to the traffic signal at the intersection of York Road with Hanover Street and is currently working with the Parking Department to provide a response to the developer on how the proposal will effect on street parking. CSD has discussed this project with the planning commission which recommended that the development include pedestrian accessibility along the proposed Hanover Street Entrance.

**Gottfried Holdings, LLC (42-44 North Stratton Street) Subdivision:**

- **Sept. 2018 – CSD received this Final Minor Subdivision plan and will be providing comments for the September P.C. meeting.**

**Ridge Rentals, LLC (321-323 York Street) Subdivision:**

- **Sept. 2018 – CSD received this Final Minor Subdivision plan and will be providing comments for the September P.C. meeting.**

**LaBella Italia:**

- **Sept. 2018 – CSD received a revised plan and stormwater management report dated 8-16-18 which reflects a zoning variance approved on 8-1-2018 to allow parking within the Side Lot. The plan was previously conditionally approved in August of 2017. CSD will be reviewing the revisions to make sure they are consistent with the current conditional approval. This revision was discussed at the August P.C. meeting. The P.C. had no exception with forwarding this plan on for final approval and recordation once the conditions of approval have been addressed.**

**Ruth, Chiarelli, and Adams Co. Arts Council Stormwater Management Plans:**

- **Sept. 2018 – CSD is currently reviewing stormwater management plans for Adams Co. Arts Council at 125 Washington St., Ruth Residence at 812 Long Lane and Chiarelli Garage at 512 Carlisle Street. These plans fall under the 5000 square foot of impervious coverage exemption for stormwater rate control and public meeting review process. Thusly the plans will be reviewed and approved administratively by the Planning Director once a recommendation is provided from the engineer.**

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

2018 Bridge Maintenance:

- **Sept. 2018 - Lobar Associates was awarded the project at the August 13, 2018 meeting. We have issued a Notice to Proceed for September 10, 2018 with a Substantial Completion date of November 9, 2018.**

Culp Street:

- **Sept. 2018 – This project is complete and the street has been reopened.**
- Aug. 2018 – CSD has been assisting with design elements of the street reconstruction including determination of depth of stone base replacement, establishment of grades, and installation of base drains. The project is progressing smoothly and is expected to be complete mid-August.
- July 2018 – Culp Street full depth reconstruction is scheduled for the Month of July. CSD will assist with design specifics as needed. The first block has been removed from the scope of work for this year. Also no curbs will be replaced as part of this year's project. Since the scope has been lessened, the work is being done in house, and limited engineering will be necessary, we anticipate that the budget for this project will be much less than what was estimated in the Capital Improvement Plan.

2018 Racehorse Alley Parking Garage Maintenance (2383.8.09.18):

- **Sept. 2018 – Bids have been received and the project was awarded to Structural Restoration Services Inc. at the 8-27-18 council meeting. Contract documents are currently being developed. The contracted maintenance work is scheduled to be completed in October.**
- Aug. 2018 – Construction Bids are due on 8-9-18 at 10:00 AM. CSD will provide a bid tabulation and recommendation for award at the 8-13-18 council meeting.
- July 2018 – After inspecting the next two decks CSD found that the estimated construction cost was in the \$20k to \$30k range which doesn't meet the goal of completing closer to \$50k worth of maintenance in attempt to attract more/qualified contractors. Thus we have decided to add a third deck to the maintenance this year. This is good news as this will help us get caught up with the years lost not getting any contractors to bid.
- June 2018 – CSD has initiated efforts on this project. As a reminder we have discontinued the old strategy of doing maintenance on one deck per year since we could not get any contractors to do the work on such a small scope of work. Thus beginning this year we'll be doing maintenance on at least two decks at a time (with an estimated construction budget of \$50k), and then only doing the maintenance every other year. We intend on bidding this project in July and completing construction in Sept./Oct. CSD will be coordinating this work with the Public Works and Parking Departments.

2018 CDBG Curb Ramp Replacements (2383.4.59.00):

- Aug. 2018 – The construction is substantially complete. CSD recommended an almost full payment to Kinsley for items complete. On the App for Payment dated 7/17/18, CSD recommended the retainage of \$1000 for the replacement of tree that was removed during construction. Otherwise the rest of the project is complete. The contract amount based on estimated quantities was \$95,147.20. The project came in under budget at \$87,239.31. CSD will work with the Contractor, Borough Staff, and County who administers the CDBG funds, to close out the project over the next month or two.
- June 2018 – Construction has commenced. The Borough Public Works Department is providing inspection with some assistance from CSD where needed. The ramps at Culp/Johns are being completed first in order to be done in advance of the ceremony to be held later this month. Substantial Completion date remains 7-28-18.
- May 2018 – The contract with Kinsley has been executed. A pre-construction meeting was held on 5-3-18. The notice to proceed with construction was set for 5-29-18. Substantial Completion date is 7-28-18.
- April 2018 – CSD advertised for construction bids. The Bids will be opened on 4-5-2018. CSD anticipates an award at the 4-9-18 Council meeting. Since two ramps at Johns/Culp and two ramps at Baltimore/Locust were eliminated, the budget allowed for the ramps at Gettys/Fairview and Highland/Johns to be added to this year's program. So, the current list of ramps that have been bid are as follows: Hillcrest/Locust, Johns/Culp, Highland/Culp, Fairview/Culp, Gettys/Fairview, Highland/Johns. Construction continues to be scheduled for May and July 2018.

2018 Street Improvements:

- Aug. 2018 – The base repairs on Pine, Victor, and Barlow streets have been completed by E.K. Services. The Base Repairs on Water Street will be done at the same time as the Base repairs on Stratton.
- July 2018 – PennDOT would not allow the base repairs on Pine, Victor, Barlow, and Water to be done with Liquid fuels money since this work is being done under the Stratton Street contract with E.K. Services which was bid with the intent of using Bond Money, not Liquid Fuels. Staff has developed a solution to use Liquid Fuels money for Culp Street instead which is relatively cost neutral. This way the same amount of money will be spent from both the Liquid Fuels and the Bond Funds.
- June 2018 – A work directive change has been administratively approved to complete the base repairs associated with Columbia Gas of PA's work on Barlow Street, E. Water Street, Pine Street, and Victor Street. The work directive change is technically a change to the Stratton Street Project however it will be tracked separately so that the Borough may use Liquid Fuels money to complete the work. The work directive change, based on estimated quantities, is \$34,152.25 for the base repairs. We will follow up with a contract Change Order once the actual quantities are complete and measured.

Stratton Street Storm Sewer (2383.4.50.00):

- **Sept. 2018 – Change Order No. 1 has been issued in the amount of \$29,287.75 for the paving on Barlow Street, Pine Street, and Victor Street as part of the 2018 Street Improvements project. Change Order No. 2 has also been issued to extend the Contract Time from 100 days to 200 days to allow for Columbia Gas work to be completed. The Substantial Completion date will now be December 18, 2018. Application for Payment No. 1 was submitted in the amount of \$37,206.18 for work completed through 8/31/18. We concur with the request for Payment and recommend approval accordingly.**
- Aug. 2018 – The materials (inlet boxes and pipe etc.) have been delivered. The actual start of construction has been delayed approximately one month to the beginning of September. It was decided that it was better to wait until Columbia Gas is completely out of the way and the abandoned gas lines are completely cut off and out of service. This will make it safer and more efficient for our Contractor when they start digging.
- July 2018 – CSD has been reviewing shop drawings and assisting with the production of the inlet boxes and manholes. The contractor will be mobilizing in July to start construction. The expected completion date continues to be mid-September. The new paved surface continues to be scheduled for spring 2019.
- June 2018 – A minor change was made to the proposed storm sewer alignment on Racehorse Alley. This change has negligible effect on the cost of the project.

Gettysburg Inner Loop – Segment A:

- July 2018 – CSD has been working with the inspection agency, the contractor, and PennDOT representatives to complete the closeout and finalization paperwork on this project.
- June 2018 – The project has been deemed substantially complete. The contractor is working on punch list items. Also the final quantities for final payment to the contractor are being worked out by The Borough's inspection agency with assistance from PennDOT.

Carlisle Street Storm Sewer Replacement (2383.5.14.00):

- **Sept. 2018 – Trench Pavement Base repairs are being completed between Sept. 4 through 7. Pavement overlay (by Columbia Gas) is scheduled for the week of Sept. 10. At that point the project will be complete. CSD continues to provide design assistance as well as compaction testing to fulfill PennDOT requirements.**
- Aug. 2018 – The new curb has been installed and the street base has been paved along the new curb. The last of the new pipes and inlets will be installed around the second week of Aug. The curb ramps will be completed by Col. Gas either second or third week of Aug. The finished paving is anticipated to be done in September.
- July 2018 – This project has tied up a significant amount of the engineer's and the Borough Public Works Department's time over the past few months. But at this point most of the storm sewer has been installed.

New Curb installation is scheduled for the week of July 9. Milling and Base Repairs are scheduled for mid/end of July. And finished paving is anticipated to be completed by Columbia Gas in August or September.

**OTHER PROJECTS:****Flood Mapping and Ordinance:**

- July 2018 – In our capacity as the Borough's floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough Flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the spring of 2019. At that time we'll be given 6 months to update our ordinance. In the meantime CSD will work with Borough Staff in contacting the affected individuals.

**Municipal Separate Storm Sewer System (MS4):**

- Aug. 2018 – During the Bridge inspections, an eroded stream bank was discussed for maintenance associated with the bridge maintenance project at the Court Alley crossing of Culps Run. We've decided to add this project to the PRP to get credit for the proposed work. No other public comments were received during the public comment period. At this point we've made all updates to the plan and will be submitting to DEP within the next few weeks. Also, a schedule has been developed for the development of a Stormwater Authority to fund the MS4 and storm sewer replacement program.
- July 2018 – CSD met with representatives from the Gettysburg National Military Park as well as Borough staff to discuss the potential of using Culps Run as a project. This meeting went well and the Park members suggested that this is a real possibility. In fact there is a possibility for more of this stream to be included than initially expected which may allow us to eliminate a more costly project from the pollution reduction plan. As always, this plan will be continually evaluated and updated as necessary as these projects evolve.
- June 2018 – CSD presented the updates to the PRP. The updated plan will need to be advertised and then approved at the July Council Meeting. CSD is also providing guidance on the funding efforts as presented at the May Workshop meeting.
- May 2018 – CSD is working on updates to the (PRP) Pollution Reduction Plan and will be presenting the updates to the Council at the May workshop meeting. CSD has also started some discussions with Borough staff regarding the funding strategy.

**SALDO and Construction and Materials Specifications:**

- Aug. 2018 - CSD completed updates to the Subdivision and Land Development Ordinance. CSD also provided a complete set of Construction and Materials Specifications for adoption by the Borough. These documents, specifically the SALDO have been reviewed extensively by the Planning Commission and are ready to be placed on the Borough council agenda for advertisement and adoption.

*K:\238310099\2018 Engineer's Reports\2018-9 Engineer's Report.docx*

*Entries are listed in reverse chronological order. **Bolded entries are new.***

**SUBDIVISIONS AND LAND DEVELOPMENTS UNDER CONSTRUCTION:**

***The security tracking spreadsheet has not been updated this month.*** *Inspection Reports are kept on file for all land developments under construction and can be provided upon request.*

Gettysburg School District – New Middle School

- July 2018 – The Borough has been holding financial security for public improvements associated with the New Middle School. The School District has made a request for the Borough to notify them of the remaining elements so that that security can be released. CSD issued a letter outlining the items that need resolved.

**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Mark Gettysburg (Walmart in Straban)

- **Aug. 2018** – CSD reviewed the proposed changes to the traffic signal at the intersection of York Road with Hanover Street and is currently working with the Parking Department to provide a response to the developer on how the proposal will effect on street parking. CSD has discussed this project with the planning commission which recommended that the development include pedestrian accessibility along the proposed Hanover Street Entrance.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

2018 Bridge Maintenance

- **Aug. 2018** CSD completed inspections of all the bridges planned for maintenance in the years 2018-2019. The projects have been broken into three categories. Work that will be completed by the Borough Public Works Department, Work that will be bid which does not require stream encroachment permits, and work that will be bid that does require stream encroachment permits. CSD provided construction drawings to the Public Works department for them to complete at their leisure. CSD will prepare stream encroachment permits and bidding documents for the work that does require permits over the next 6 to 9 months for construction in the summer of 2019. The work that will be bid which does NOT require stream encroachment permits has been advertised for bids. The bids are due on 8-13-18 at 10:00 AM. CSD will provide a bid tabulation and recommendation for award at the 8-13-18 council meeting.

Culp Street

- **Aug. 2018** – CSD has been assisting with design elements of the street reconstruction including determination of depth of stone base replacement, establishment of grades, and installation of base drains. The project is progressing smoothly and is expected to be complete mid-August.
- July 2018 – Culp Street full depth reconstruction is scheduled for the Month of July. CSD will assist with design specifics as needed. The first block has been removed from the scope of work for this year. Also no curbs will be replaced as part of this year's project. Since the scope has been lessened, the work is being done in house, and limited engineering will be necessary, we anticipate that the budget for this project will be much less than what was estimated in the Capital Improvement Plan.

2018 Racehorse Alley Parking Garage Maintenance ( 2383.8.09.18)

- **Aug. 2018 – Construction Bids are due on 8-9-18 at 10:00 AM. CSD will provide a bid tabulation and recommendation for award at the 8-13-18 council meeting.**
- July 2018 – After inspecting the next two decks CSD found that the estimated construction cost was in the \$20k to \$30k range which doesn't meet the goal of completing closer to \$50k worth of maintenance in attempt to attract more/qualified contractors. Thus we have decided to add a third deck to the maintenance this year. This is good news as this will help us get caught up with the years lost not getting any contractors to bid.
- June 2018 – CSD has initiated efforts on this project. As a reminder we have discontinued the old strategy of doing maintenance on one deck per year since we could not get any contractors to do the work on such a small scope of work. Thus beginning this year we'll be doing maintenance on at least two decks at a time (with an estimated construction budget of \$50k), and then only doing the maintenance every other year. We intend on bidding this project in July and completing construction in Sept./Oct.. CSD will be coordinating this work with the Public Works and Parking Departments.

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- **Aug. 2018 – The construction is substantially complete. CSD recommended an almost full payment to Kinsley for items complete. On the App for Payment dated 7/17/18, CSD recommended the retainage of \$1000 for the replacement of tree that was removed during construction. Otherwise the rest of the project is complete. The contract amount based on estimated quantities was \$95,147.20. The project came in under budget at \$87,239.31. CSD will work with the contractor, the Borough Staff, and the County who administers the CDBG funds, to close out the project over the next month or two.**
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2018 Street Improvements

- **Aug. 2018 – The base repairs on Pine, Victor, and Barlow streets have been completed by E.K. Services. The Base Repairs on Water Street will be done at the same time as the Base repairs on Stratton.**
- July 2018 – PennDOT would not allow the base repairs on Pine, Victor, Barlow, and Water to be done with Liquid fuels money since this work is being done under the Stratton Street contract with ~~ECL~~ E.K. Services which was bid with the intent of using Bond Money, not Liquid Fuels. Staff has developed a solution to use Liquid Fuels money for Culp Street instead which is relatively cost neutral. This way the same amount of money will be spent from both the Liquid Fuels and the Bond Funds.
- June 2018 – A work directive change has been administratively approved to complete the base repairs associated with Columbia Gas of PA's work on Barlow Street, E. Water Street, Pine Street, and Victor Street. The work directive change is technically a change to the Stratton Street Project however it will be tracked separately so that the Borough may use Liquid Fuels money to complete the work. The work directive change, based on estimated quantities, is \$34,152.25 for the base repairs. We will follow up with a contract Change Order once the actual quantities are complete and measured.

Stratton Street Storm Sewer (2383.4.50.00)

- **Aug. 2018 – The materials (inlet boxes and pipe etc.) have been delivered. The actual start of construction has been delayed approximately one month to the beginning of September. It was decided that it was better to wait until Columbia Gas is completely out of the way and the abandoned gas lines are completely cut off and out of service. This will make it safer and more efficient for our contractor when they start digging.**
- July 2018 – CSD has been reviewing shop drawings and assisting with the production of the inlet boxes and manholes. The contractor will be mobilizing in July to start construction. The expected completion date continues to be mid-September. The new paved surface continues to be scheduled for spring 2019.
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Gettysburg Inner Loop – Segment A

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- June 2018 – CSD has is providing survey/stakeout services and compaction testing services for the new storm pipe installation. CSD has also been assisting with resolving the many unforeseen utility conflicts as the project progresses including preparation of supplements to the PennDOT permit.

**OTHER PROJECTS:**Flood Mapping and Ordinance

- July 2018 – In our capacity as the Borough's floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough Flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the spring of 2019. At that time we'll be given 6 months to update our ordinance. In the meantime CSD will work with Borough Staff in contacting the affected individuals.

Municipal Separate Storm Sewer System (MS4)

- **Aug. 2018** – During the Bridge inspections, an eroded stream bank was discussed for maintenance associated with the bridge maintenance project at the Court Alley crossing of Culps Run. We've decided to add this project to the PRP to get credit for the proposed work. No other public comments were received during the public comment period. At this point we've made all updates to the plan and will be submitting to DEP within the next few weeks. Also a schedule has been developed for the development of a Stormwater Authority to fund the MS4 and storm sewer replacement program.
- July 2018 – CSD met with representatives from the Gettysburg National Military Park as well as Borough staff to discuss the potential of using Culps Run as a project. This meeting went well and the Park members suggested that this is a real possibility. In fact there is a possibility for more of this stream to be included than initially expected which may allow us to eliminate a more costly project from the pollution reduction plan. As always this plan will be continually evaluated and updated as necessary as these projects evolve.
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Gettysburg School District – New Middle School

- **July 2018** – The Borough has been holding financial security for public improvements associated with the New Middle School. The School District has made a request for the Borough to notify them of the remaining elements so that that security can be released. CSD issued a letter outlining the items that need resolved.

**SUBDIVISIONS, LAND DEVELOPMENTS, and STORMWATER PLAN REVIEWS:**

Gettysburg College – Masters Hall Access Drive Stormwater Plan

- **July 2018** – CSD reviewed the stormwater management plan and report dated 6-1-18 and issued a comment letter dated 6-21-18 with 7 comments. CSD reviewed a revised plan dated 6-25-18 and issued an e-mail on 6-29-18 stating that all comments have been addressed except for the execution of the stormwater maintenance and monitoring agreement which is on the agenda for the July 9 Council Meeting.
- June 2018 – The stormwater management plan for this project is under review.

**CAPITAL IMPROVEMENT AND INFRASTRUCTURE PROJECTS:**

Culp Street

- **July 2018** – Culp Street full depth reconstruction is scheduled for the Month of July. CSD will assist with design specifics as needed. The first block has been removed from the scope of work for this year. Also no curbs will be replaced as part of this year's project. Since the scope has been lessened, the work is being done in house, and limited engineering will be necessary, we anticipate that the budget for this project will be much less than what was estimated in the Capital Improvement Plan.

2018 Racehorse Alley Parking Garage Maintenance ( 2383.8.09.18)

- **July 2018** – After inspecting the next two decks CSD found that the estimated construction cost was in the \$20k to \$30k range which doesn't meet the goal of completing closer to \$50k worth of maintenance in attempt to attract more/qualified contractors. Thus we have decided to add a third deck to the maintenance this year. This is good news as this will help us get caught up with the years lost not getting any contractors to bid.
- June 2018 – CSD has initiated efforts on this project. As a reminder we have discontinued the old strategy of doing maintenance on one deck per year since we could not get any contractors to do the work on such a small scope of work. Thus beginning this year we'll be doing maintenance on at least two decks at a time (with an estimated construction budget of \$50k), and then only doing the maintenance every other year. We intend on bidding this project in July and completing construction in Sept./Oct.. CSD will be coordinating this work with the Public Works and Parking Departments.

2018 CDBG Curb Ramp Replacements (2383.4.59.00)

- June 2018 – Construction has commenced. The Borough Public Works Department is providing inspection with some assistance from CSD where needed. The ramps at Culp/Johns are being completed first in order to be done in advance of the ceremony to be held later this month. Substantial Completion date remains 7-28-18.
- May 2018 – The contract with Kinsley has been executed. A pre-construction meeting was held on 5-3-18. The notice to proceed with construction was set for 5-29-18. Substantial Completion date is 7-28-18.
- April 2018 – CSD advertised for construction bids. The Bids will be opened on 4-5-2018. CSD anticipates an award at the 4-9-18 Council meeting. Since two ramps at Johns/Culp and two ramps at Baltimore/Locust were eliminated, the budget allowed for the ramps at Gettys/Fairview and Highland/Johns to be added to this year's program. So the current list of ramps that have been bid are as follows: Hillcrest/Locust, Johns/Culp, Highland/Culp, Fairview/Culp, Gettys/Fairview, Highland/Johns. Construction continues to be scheduled for May and July 2018.

2018 Street Improvements

- **July 2018 – PennDOT would not allow the base repairs on Pine, Victor, Barlow, and Water to be done with Liquid fuels money since this work is being done under the Stratton Street contract with ECI which was bid with the intent of using Bond Money, not Liquid Fuels. Staff has developed a solution to use Liquid Fuels money for Culp Street instead which is relatively cost neutral. This way the same amount of money will be spent from both the Liquid Fuels and the Bond Funds.**
- June 2018 – A work directive change has been administratively approved to complete the base repairs associated with Columbia Gas of PA's work on Barlow Street, E. Water Street, Pine Street, and Victor Street. The work directive change is technically a change to the Stratton Street Project however it will be tracked separately so that the Borough may use Liquid Fuels money to complete the work. The work directive change, based on estimated quantities, is \$34,152.25 for the base repairs. We will follow up with a contract Change Order once the actual quantities are complete and measured.
- May 2018 – CSD is pursuing a change order to the contract with E.K. Services on Stratton Street to add the base repair work discussed below. CSD will continue to work with Columbia Gas on coordinating of pavement restorations on Pine, Victor, and Barlow including the replacement of 4 Curb Ramps in that location. Columbia Gas has been very cooperative in their willingness to perform sidewalk and street restorations.

Stratton Street Storm Sewer (2383.4.50.00)

- **July 2018 – CSD has been reviewing shop drawings and assisting with the production of the inlet boxes and manholes. The contractor will be mobilizing in July to start construction. The expected completion date continues to be mid-September. The new paved surface continues to be scheduled for Spring 2019.**
- June 2018 – A minor change was made to the proposed storm sewer alignment on Racehorse Alley. This change has negligible effect on the cost of the project.
- May 2018 – The contract with E.K. Services Inc. has been executed. A pre-construction meeting was held on 5-8-18. The notice to proceed with construction was set for 6-4-18. Substantial Completion date is 9-12-18.
- April 2018 – CSD advertised for construction bids. CSD has been addressing questions from prospective bidders. Bids are scheduled to be opened on 4-5-2018. CSD anticipates an award at the 4-9-18 Council meeting. Start of construction remains planned for May and will be complete prior to the end of 2018.

Gettysburg Inner Loop – Segment A

- **July 2018 – CSD has been working with the inspection agency, the contractor, and PennDOT representatives to complete the closeout and finalization paperwork on this project.**
- June 2018 – The project has been deemed substantially complete. The contractor is working on punch list items. Also the final quantities for final payment to the contractor are being worked out by The Borough's inspection agency with assistance from PennDOT.

Carlisle Street Storm Sewer Replacement (2383.5.14.00)

- **July 2018** – This project has tied up a significant amount of the engineer's and the Borough Public Works Department's time over the past few months. But at this point most of the storm sewer has been installed. New Curb installation is scheduled for the week of July 9. Milling and Base Repairs are scheduled for mid/end of July. And finished paving is anticipated to be completed by Columbia Gas in August or September.
- June 2018 – CSD has is providing survey/stakeout services and compaction testing services for the new storm pipe installation. CSD has also been assisting with resolving the many unforeseen utility conflicts as the project progresses including preparation of supplements to the PennDOT permit.

OTHER PROJECTS:Flood Mapping and Ordinance

- **July 2018** – In our capacity as the Borough's floodplain Administrator, CSD (along with the Borough manager) has attended a meeting held by representatives from the Army Corps of Engineers and Federal Emergency Management Agency to obtain information on the new flood mapping. New maps have been developed for the Monocacy River Watershed which all of Gettysburg Borough Flows into. Several properties will be affected by these maps. The Borough is obligated to contact the affected property owners. They are currently in the public comment period. That period will end and the Borough will be notified to complete updates to its flood ordinance in the spring of 2019. At that time we'll be given 6 months to update our ordinance. In the mean-time CSD will work with Borough Staff in contacting the affected individuals.

Municipal Separate Storm Sewer System (MS4)

- **July 2018** – CSD met with representatives from the Gettysburg National Military Park as well as Borough staff to discuss the potential of using Culps Run as a project. This meeting went well and the Park members suggested that this is a real possibility. In fact there is a possibility for more of this stream to be included than initially expected which may allow us to eliminate a more costly project from the pollution reduction plan. As always this plan will be continually evaluated and updated as necessary as these projects evolve.
- June 2018 – CSD presented the updates to the PRP. The updated plan will need to be advertised and then approved at the July Council Meeting. CSD is also providing guidance on the funding efforts as presented at the May Workshop meeting.
- May 2018 – CSD is working on updates to the (PRP) Pollution Reduction Plan and will be presenting the updates to the Council at the May workshop meeting. CSD has also started some discussions with Borough staff regarding the funding strategy.
- April 2018 – The borough received comments from DEP on the Pollution Reduction Plan. CSD is working to resolve the deficiencies. A revised PRP is due by 6-6-18. Additionally CSD has been working with Borough and GMA staff to address the funding required for permit compliance. A policy briefing has been issued to the Council at the March Council Workshop summarizing this effort. The goal is to have a funding mechanism in place by the end of 2018.

# MCM #3 Appendix

- **MCM #3 Project Plan**
- **BMP 3.1 Attachments**
  - Letter to Gettysburg Times.pdf
  - GB Legal Notice summary (storm sewers).pdf
  - Illicit Discharge Ordinance
  - Illicit Discharge Inspection Protocol - Guide.pdf
  - Illicit Discharge (Outfall) Inspection Form.pdf
- **BMP 3.2 Attachments**
  - Gettysburg Outfall Map.pdf
- **BMP 3.5 Attachments**
  - Gettysburg Stormwater Management Ordinance.pdf

# MCM #3 Project Plan

- BMP 3.1

Description:

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

Action Plan:

1. The Borough will identify priority outfalls based on future outfall inspections.
2. The Borough utilizes the Illicit Discharge Field Inspection Guide for screening procedures. This guide summarizes the proper criteria for when an inspection should be performed.
3. The Borough utilizes the Illicit Discharge Field Inspection Guide to aid in identifying illicit discharges. The standard DEP Outfall Reconnaissance Inventory/Sample Collection Field Sheet shall be utilized for logging inspections. In the event a situation is not covered in this guide, Chapter 7 of the IDDE Manual can be utilized for reference.
4. The Borough will utilize the procedures identified in the Illicit Discharge Field Inspection Guide to aid in identifying illicit discharges. Chapter 8 of the IDDE Manual also provides information and techniques for how to eliminate illicit discharges.
5. There are no known in the Borough which are not hooked up to the municipal sanitary sewer system. Septic failure is not a risk factor in the Borough.
6. The Borough has not identified any areas in which access is currently an issue. O&M agreements will be executed and recorded with all new Subdivision, LD, and SWM Site Plans.
7. The Borough Engineer performs illicit discharge inspections on behalf of the Borough. The Borough Engineer compiles these inspections and submits them in each annual report. After the report is submitted to DEP, the Engineer provides a copy of the report back to the Borough and includes a summary memo of the report's contents. The report and memo are provided to the Borough Council with the Borough Manager and Borough Engineer available to answer any questions that they may have.

- BMP 3.2

Description:

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 observations points shall be numbered on the map(s).

Action Plan:

The Borough's outfall map is reviewed constantly throughout the year and during outfall inspections. The Borough is utilizing a web based mapping system to allow this data to remain dynamic.

- BMP 3.3

Description:

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.

Action Plan:

The Borough's storm sewer map is reviewed annually by the Borough during outfall inspections. Revisions are made as deemed necessary in accordance with the action plan of BMP 3.2.

- BMP 3.4

Description:

Conduct dry weather screenings of MS4 outfalls to evaluate the presences 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.

Action Plan:

1. The Borough Engineer performs the outfall inspections required by this BMP. All inspections follow the procedures previously outlined in BMP 3.1.
2. The Borough Engineer shall choose what time of year it is the most logical time to inspect each outfall in the system. Since this work is shuffled in with other tasks, inspections naturally occur during different periods of time.
3. All outfall inspections will be submitted as an attachment to the annual report.

- BMP 3.5

Description:

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.

Action Plan:

1. Permittee shall enact and implement an ordinance that is consistent with DEP's 2022 Model Stormwater Management Ordinance by the fourth (4th) Annual MS4 Status Report following approval of coverage under the General Permit for new permittees.

- BMP 3.6

Description:

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

Action Plan:

The Borough has established a Complaints Protocol to address the process of replying to and resolving complaints. At a minimum, one of the proposed educational outreach materials under MCM #1 will be directed at the elimination of illicit discharges.

EDWARD G. PUHL  
HAROLD A. EASTMAN, JR.  
RICHARD E. THRASHER  
ADAM D. BOYER

**PUHL, EASTMAN & THRASHER**  
**ATTORNEYS AT LAW**  
220 BALTIMORE STREET  
GETTYSBURG, PENNSYLVANIA 17325

EDWARD B. BULLEIT (1914-2001)  
PHONE (717) 334-2159  
FAX (717) 334-0336  
HAROLD.EASTMAN@COMCAST.NET

May 30, 2019

The Gettysburg Times  
Attention: Carolyn Schreiber  
P.O. Box 3669  
Gettysburg, PA 17325

**Sent via e-mail**

**Re: Borough of Gettysburg/Legal Notice**

Dear Carolyn:

I have enclosed herewith a Legal Notice which I would request be published one (1) time in the Gettysburg Times. I would request that the Legal Notice appear and be published in the public notices section of the newspaper on or before this Saturday, June 1, 2019.

If you would, please forward your invoice and proof of publication to Sara L. Stull, Borough Secretary, 59 East High Street, Gettysburg, PA 17325.

If you should have any questions regarding the foregoing, please do not hesitate to contact me. I would like to thank you for your assistance in this matter.

Very truly yours,

**PUHL, EASTMAN & THRASHER**



Harold A. Eastman, Jr.

HAE/md  
Enclosures

cc: Charles R. Gable, MPA, Borough Manager  
Sara L. Stull, Borough Secretary  
Chad M. Clabaugh, P.E., Borough Engineer  
Borough Council of the Borough of Gettysburg  
Theodore H. Streeter, Mayor



## LEGAL NOTICE

Notice is hereby given that the Borough Council of the Borough of Gettysburg, Adams County, Pennsylvania, intends to enact, adopt and ordain the following proposed Ordinance on Monday, June 10, 2019 at the regular general monthly business meeting of the Borough Council, commencing at 7:00 P.M. in the Borough Council Chambers at the Gettysburg Borough Municipal Office Building, 59 East High Street, Gettysburg, Pennsylvania. A brief summary of the principal provisions of the Ordinance is as follows:

ORDINANCE NO. \_\_\_\_\_

### **AN ORDINANCE OF THE BOROUGH COUNCIL OF THE BOROUGH OF GETTYSBURG PROHIBITING ILLEGAL DISCHARGES INTO AND ILLICIT CONNECTIONS TO THE STORM DRAIN SYSTEMS, THE STORM SEWER SYSTEMS AND THE WATERCOURSES IN THE BOROUGH OF GETTYSBURG, ADAMS COUNTY, PENNSYLVANIA.**

**Section 1. Definitions.** This section contains definitions of certain terms, words and phrases used throughout the ordinance.

**Section 2. Applicability.** The ordinance applies to all water entering any storm drain system or storm sewer systems in the Borough generated on any developed or undeveloped lands unless explicitly exempted by the Borough.

**Section 3. Administration.** The Borough shall administer, implement and enforce the ordinance, and may delegate any granted powers or imposed duties.

**Section 4. Minimum Standards.** The ordinance contains minimum standards, and compliance does not ensure the absence of contamination, pollution or unauthorized discharge of pollutants.

**Section 5. Prohibition of Illegal Discharges.**

A. Discharge into a storm drain system, a storm sewer system or watercourse in the Borough of any materials other than storm water is an illegal discharge.

B. An illegal discharge is prohibited except for certain exceptions as set forth in ordinance.

**Section 6. Prohibition of Illicit Connections.** The construction, use, maintenance or continued existence of illicit connections to a storm drain system or storm sewer system is prohibited.

A. The prohibition includes past illicit connections regardless of whether the connection was permitted at the time.

B. A violation occurs if a person connects a sewage line to the Municipal Separate Storm Sewer System (MS4) or allows such a connection to continue.

**Section 7. Suspension of MS4 Access.**

A. *Suspension due to illegal discharges in emergency situations.* The Borough, the Commonwealth of Pennsylvania and the United States of America may suspend, without prior notice, MS4 discharge access to stop actual or threatened discharge that presents imminent and substantial dangers to the environment, the health or welfare of persons or the MS4 waters.

*B. Suspension due to the detection of illegal discharge or illicit connection.* Any person discharging to the MS4 in violation of the ordinance may have MS4 access terminated and may petition the Borough for a reconsideration and hearing.

*C.* A person commits an offense if the person reinstates MS4 access to premises terminated without prior approval of the authorized enforcement agency.

**Section 8. Industrial or Construction Activity Discharges.** Any person subject to an industrial or construction activity NPDES storm water discharge permit shall comply with all permit provisions and may be required to provide proof of compliance to the Borough prior to allowing discharges to the MS4.

**Section 9. Monitoring of Discharges.**

*A. Applicability.* This section applies to all facilities that have storm water discharges associated with industrial activity, including construction activity.

*B. Access to facilities.* (1) The Borough shall be permitted to enter and inspect property and facilities subject to regulation to determine compliance. (2) Facility operators shall allow the Borough ready access to all parts of premises for purposes of inspection, sampling, examination and copying of records required under NPDES permits. (3) The Borough shall have the right to place necessary devices at permitted facility to conduct monitoring and/or sampling of storm water discharge. (4) The Borough has the right to require the discharger to install monitoring equipment as necessary. (5) Any temporary or permanent obstructions to safe and easy access to the facility shall be promptly removed at the written or oral request of the Borough. (6) Unreasonable delays or denying the Borough reasonable access to a facility is a violation of the NPDES permit and of the ordinance. (7) If the Borough has been refused access to a facility, and is able to demonstrate probable cause that there may be a violation of the ordinance, a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with the ordinance, or to protect the overall public health, safety and welfare of the community, then the authorized enforcement agency may seek issuance of a search warrant from any court of competent jurisdiction.

**Section 10. Prevention, Control and Reduction of Storm Water Pollutants by Use of Best Management Practices (BMPs).** The Borough will adopt requirements identifying best management practices for any activity, operation or facility which may cause or contribute to pollution or contamination of storm water, the storm drain system or waters of the Commonwealth of Pennsylvania or of the United States of America. Facility owners or operators shall be responsible to implement reasonable protections to prevent accidental discharge and to maintain compliance with the requirements of the NPDES permit and the ordinance.

**Section 11. Watercourse Protection.** Owners or lessees of property, through which a watercourse passes, shall keep the portion of the watercourse free of trash, debris, excessive vegetation and other obstacles that would pollute, contaminate or significantly retard or impede the flow of water through the watercourse.

**Section 12. Notification of Spills.** As soon as any person responsible for a facility or operation, or any persons responsive for emergency response for a facility or operation, has information of any known or suspected release of materials resulting in or that may result in illegal discharges or pollutants, said person shall take all necessary steps to ensure the discovery, containment and cleanup of such release. For release of hazardous materials, said

person shall immediately notify emergency response agencies consistent with the procedures outlined in the ordinance.

**Section 13. Enforcement; Notice of Violation.** The Borough may order compliance by written notice of a violation of the ordinance to the person responsible, which notice may require various compliance remedies, to include the elimination of existing conditions, the implementation of abatement and remediation practices and procedures and the payment of a fine to cover administration and remediation costs.

**Section 14. Appeal of Notice of Violation.** Any person receiving a notice of violation may appeal the determination to the Code Enforcement Appeals Board of the Borough of Gettysburg.

**Section 15. Enforcement Measures after Appeal.** If the violation has not been corrected as required in the notice of violation or as confirmed by the Code Enforcement Appeals Board, representatives of the Borough shall enter upon the property and are authorized to take any measures necessary to abate the violation and restore the property.

**Section 16. Cost of Abatement of Violation.**

A. Within thirty days after abatement of the violation, the property owner will be notified of the cost of abatement, with an opportunity to protest said cost. Unpaid costs shall constitute a municipal lien on the property.

B. Any person violating the ordinance shall become liable to the Borough. Payments for such liability may be made in not more than twelve equal installments with interest assessed at the legal rate.

**Section 17. Injunctive Relief.** If a person has violated or continues to violate the ordinance, the Borough may petition the court for a preliminary or permanent injunction restraining the person from activities that would create further violation or compelling abatement or remediation of the violation.

**Section 18. Compensatory Action.** In lieu of enforcement, the Borough may impose alternative compensatory actions to obtain compliance with the ordinance.

**Section 19. Violations Deemed Public Nuisance.** In addition to enforcement and penalties, any condition caused or permitted to exist in violation of the ordinance is a threat to public health, safety and welfare and is deemed a public nuisance and may be abated or restored at the violator's expense.

**Section 20. Penalty.** Any person violating this ordinance shall, upon conviction, be sentenced to pay a fine of not more than \$1,000.00 and the costs of prosecution. Each day that a violation continues shall constitute a separate offense.

**Section 21. Recovery of Expenses.** The Borough may recover all attorney's fees, court costs and other expenses associated with enforcement of the ordinance.

**Section 22. Remedies Not Exclusive.** The remedies set forth in the ordinance are not exclusive and the Borough has discretion to seek any cumulative remedies.

**Section 23. Severability.** The provisions of the ordinance are severable.

**Section 24. Repealer.** Any conflicting ordinance provisions are repealed.

**Section 25. Effective Date.** The ordinance shall take effect upon enactment.

A copy of the proposed Ordinance may be examined without charge or obtained for a charge not greater than the cost thereof at the Office of the Borough of Gettysburg from the Borough Secretary during regular business hours (Monday through Friday, 8:00 A.M. – 5:00

P.M.). An attested copy of the proposed Ordinance has been filed in the Adams County Law Library, Room 305, Adams County Courthouse, 117 Baltimore Street, Gettysburg, Pennsylvania and may be examined without charge during regular business hours (Monday-Friday, 8:00 A.M. to 4:30 P.M.). The proposed Ordinance may be downloaded from the Gettysburg Borough website at [www.gettysburgpa.gov](http://www.gettysburgpa.gov).

Sara L. Stull  
Secretary  
Borough of Gettysburg  
59 East High Street  
Gettysburg, PA 17325

**AN ORDINANCE OF THE BOROUGH COUNCIL OF THE BOROUGH OF GETTYSBURG PROHIBITING ILLEGAL DISCHARGES INTO AND ILLICIT CONNECTIONS TO THE STORM DRAIN SYSTEMS, THE STORM SEWER SYSTEMS AND THE WATERCOURSES IN THE BOROUGH OF GETTYSBURG, ADAMS COUNTY, PENNSYLVANIA.**

**BE IT ENACTED AND ORDAINED** by the Borough Council of the Borough of Gettysburg, Adams County, Pennsylvania, by virtue of the power and authority vested in said Borough Council, as follows:

**SECTION 1. DEFINITIONS.** The following words and phrases when used in this Ordinance shall have the meanings ascribed to them in this section except where the context clearly indicates or requires a different meaning:

**BEST MANAGEMENT PRACTICES (BMPs)** – Schedules of activities, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to storm water, receiving waters or storm water conveyance systems. Best Management Practices (BMPs) also include treatment practices, operating procedures and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

**BOARD** – The Code Enforcement Appeals Board of the Borough of Gettysburg, Adams County, Pennsylvania, as authorized in Chapter 1, Part 6.C. of the Code of Ordinances of the Borough of Gettysburg, Adams County, Pennsylvania.

**BOROUGH** – The Borough of Gettysburg, Adams County, Pennsylvania.

**BOROUGH COUNCIL** – The Borough Council of the Borough of Gettysburg, Adams County, Pennsylvania.

**CLEAN WATER ACT** – The federal Water Pollution Control Act (33 U.S.C. § 1251 et seq.) and any amendments thereto.

**CONSTRUCTION ACTIVITY** – Activities subject to PA Code Chapter 102 Earth Disturbance Requirements or National Pollutant Discharge Elimination System (NPDES) construction permits. PA Code Chapter 102 requires an erosion and sediment control plan to be developed and implemented for earth disturbance activities which result in a total earth disturbance of five thousand (5,000) square feet or more. NPDES Stormwater Phase II permits will be required for construction projects resulting in land disturbance of one (1) acre or more. Such construction activities include, but are not limited to, clearing and grubbing, grading, excavating and demolition activities on premises in or adjacent to the Borough of Gettysburg.

**DEP** – The Pennsylvania Department of Environmental Protection.

**GETTYSBURG BOROUGH STORM WATER AUTHORITY (GBSWA)** – The Gettysburg Borough Storm Water Authority (GBSWA), organized under the Municipality

Authorities Act, 53 Pa. C.S. § 5601 et seq., and charged with the administration and assessment of related fees in connection with the construction, operation, maintenance and repairs necessary for the implementation and operation of the Borough's municipal separate storm sewer system (MS4) program.

**HAZARDOUS MATERIALS** – Any material, including any substance, waste or combination thereof, which because of its quantity, concentration or physical, chemical or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property or the environment when improperly treated, stored, transported, disposed of or otherwise managed.

**ILLEGAL DISCHARGE** – Any direct or indirect non storm water discharge into a storm drain system, a storm sewer system or a watercourse, except as exempted in this Ordinance or Part.

**ILLICIT CONNECTIONS** – An illicit connection is defined as either of the following:

- A. Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter a storm drain system or a storm sewer system, including, but not limited to any conveyances which allow any non storm water discharge, including sewage, processed wastewater and wash or gray water to enter a storm drain system or a storm sewer system and any connections to the storm drain system or storm sewer system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted or approved by an authorized enforcement agency.
- B. Any drain or conveyance connected from a commercial or industrial land use to a storm drain system or storm sewer system which has not been documented in plans, maps or equivalent records and approved by the Borough of Gettysburg.

**INDUSTRIAL ACTIVITY** – Activities subject to National Pollutant Discharge Elimination System (NPDES) industrial permits as defined in 40 C.F.R. § 122.26(b)(14).

**MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)** – Any conveyance or system of conveyances (including streets, ditches and pipes) that is: owned by the Borough; designed or used for collecting or conveying storm water; not a combined sewer (i.e., not intended for both sewage and storm water); and not part of the sanitary sewer system owned and operated by the Gettysburg Municipal Authority (GMA).

**PERSON** – Includes, but is not limited to an individual, unincorporated association, partnership, limited partnership, firm, corporation, limited liability company, joint venture, or any other legal entity whatsoever.

**POLLUTANT** – Anything that causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes and solvents; oil and other automotive fluids; nonhazardous liquid and solid wastes, yard wastes; refuse, rubbish, garbage, litter or other discarded or abandoned objects and accumulations, so that the same may cause or contribute to pollution; floatables; pesticides, herbicides and fertilizers; hazardous substances and wastes; wastes and

residues that result from constructing a building or structure; and any noxious or offensive matter of any kind.

**PREMISES** – Any building, lot, parcel of land or portion of land, whether improved or unimproved, including adjacent curbs, sidewalks and parking areas.

**STORM DRAIN SYSTEM or STORM SEWER SYSTEM** – Publicly or privately owned facilities by which storm water is collected and/or conveyed, including but not limited to any streets or roadways with drainage systems, municipal streets, alleys, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and human-made or altered drainage channels, reservoirs and other drainage structures.

**STORM WATER** – Any surface flow, runoff and drainage consisting entirely of water from any form of natural precipitation, and resulting from such precipitation.

**STORM WATER POLLUTION PREVENTION PLAN** – A document that describes the best management practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to storm water, storm water conveyance systems and/or receiving waters to the maximum extent practicable.

**WASTE WATER** – Any water or other liquid, other than uncontaminated storm water, discharged from a facility.

**WATERCOURSE** – A stream of water, river, brook, creek, canal, channel or ditch, whether natural or man-made.

**SECTION 2. APPLICABILITY.** This Ordinance shall apply to all water entering any storm drain system or storm sewer system in the Borough generated on any developed or undeveloped lands unless explicitly exempted by the Borough.

**SECTION 3. ADMINISTRATION.** The Borough shall administer, implement and enforce the provisions of this Ordinance. Any powers granted or duties imposed upon the Borough may be delegated to employees, agents or other designated representatives of the Borough; or such powers or duties may be delegated by the Borough to the Gettysburg Borough Storm Water Authority (GBSWA), its employees, agents or other designated representatives.

**SECTION 4. MINIMUM STANDARDS.** The standards contained in this Ordinance are minimum standards. Compliance therewith does not ensure the absence of contamination, pollution or unauthorized discharge of pollutants.

**SECTION 5. PROHIBITION OF ILLEGAL DISCHARGES.**

- A. No person shall discharge or cause to be discharged into a storm drain system, a storm sewer system or any watercourse in the Borough any materials, including but not limited to pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards, other than storm water. Any discharge in violation of this section shall be considered an illegal discharge.

B. The commencement, conduct or continuance of any illegal discharge to the storm drain system or storm sewer system is prohibited except as described as follows:

- (1) Water line flushing or other potable water sources, landscape irrigation or lawn watering, diverted stream flows, rising groundwater, groundwater infiltration to storm drains or storm sewers, uncontaminated pumped groundwater, foundation or footing drains (not including active ground water dewatering systems), crawl space pumps, air-conditioning condensation, natural springs, noncommercial washing of vehicles, residential car washing (only permitted if a cleaning agent is not utilized), natural riparian habitat or wetland flows and firefighting activities.
- (2) Discharges specified, in writing, by the Borough as being necessary to protect public health, safety and welfare.
- (3) Dye testing, conditioned upon verbal notification to the Borough and confirmation of receipt of the same prior to the time of the test.
- (4) Any non storm water discharge permitted under a NPDES permit, waiver or waste discharge order issued to the discharger and administered under the authority of DEP, provided that the discharger is in full compliance with all requirements of the permit, waiver or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the storm drain system.

**SECTION 6. PROHIBITION OF ILLICIT CONNECTIONS.** The construction, use, maintenance or continued existence of illicit connections to a storm drain system or storm sewer system is prohibited.

- A. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permitted under law or practices applicable or prevailing at the time of connection.
- B. A person is considered to be in violation of this Ordinance if the person connects a line conveying sewage to the Municipal Separate Storm Sewer System (MS4), or allows such a connection to continue.

**SECTION 7. SUSPENSION OF MS4 ACCESS.**

- A. **Suspension due to illegal discharges in emergency situations.** The Borough, the Commonwealth of Pennsylvania and the United States of America may, without prior notice, suspend MS4 discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, to the health or welfare of persons, or to the MS4 or waters of the Commonwealth of Pennsylvania or of the United States of America. If the violator fails to comply with the suspension order issued in an emergency, the Borough may take such steps as deemed necessary to prevent or minimize damage to the MS4 or waters of the Commonwealth of

Pennsylvania or of the United States of America, or to minimize danger to persons, including without limitation, entering the property for the purpose of disconnecting and/or performing emergency maintenance or repairs to storm drains or storm sewers. In the event the Borough must disconnect or perform emergency maintenance and/or repairs, the Borough may file and attach a municipal lien on the property which is causing the illegal discharge for any such emergency work, maintenance or repairs performed by the Borough or at its direction.

- B. **Suspension due to the detection of illegal discharge or illicit connection.** Any person discharging to the MS4 in violation of this Ordinance or Part may have MS4 access terminated if such termination would abate or reduce an illegal discharge or illicit connection. The Borough will notify a violator of the proposed termination of MS4 access. The violator may petition the Borough for a reconsideration and hearing.
  
- C. A person commits an offense if the person reinstates MS4 access to premises terminated pursuant to this section without the prior approval of the authorized enforcement agency.

#### **SECTION 8. INDUSTRIAL OR CONSTRUCTION ACTIVITY DISCHARGES.**

Any person subject to an industrial or construction activity NPDES storm water discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the Borough prior to allowing discharges to the MS4.

#### **SECTION 9. MONITORING OF DISCHARGES.**

- A. **Applicability.** This section applies to all facilities that have storm water discharges associated with industrial activity, including construction activity.
  
- B. **Access to facilities.**
  - (1) The Borough shall be permitted to enter and inspect property and facilities subject to regulation under this Ordinance or Part as often as may be necessary to determine compliance with this Ordinance or Part. If a discharger has security measures in force which require proper identification and clearance before entry into the premises, the discharger shall make the necessary arrangements to allow access to the Borough, its representatives, agents or contractors.
  
  - (2) Facility operators shall allow the Borough ready access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records that must be kept under the conditions of a NPDES permit to discharge storm water and the performance of any additional duties as defined by state and federal law.
  
  - (3) The Borough shall have the right to place at any permitted facility such devices as are necessary as determined by the Borough or its professional

consultants to conduct monitoring and/or sampling of the facility's storm water discharge.

- (4) The Borough has the right to require the discharger to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its own expense. All devices used to measure storm water flow and quality shall be properly calibrated in order to ensure accuracy of the device.
- (5) Any temporary or permanent obstruction to safe and easy access to the facility to be inspected and/or sampled shall be promptly removed by the operator at the written or oral request of the Borough and shall not be replaced. The costs of clearing such access shall be borne by the operator.
- (6) Unreasonable delays in allowing the Borough access to a permitted facility is a violation of a storm water discharge permit and of this Ordinance or Part. An operator of a facility with a NPDES permit to discharge storm water associated with industrial activity commits an offense if the Borough is denied reasonable access to the permitted facility for the purpose of conducting any activity authorized or required by this Ordinance or Part.
- (7) If the Borough has been refused access to any part of the premises from which storm water is discharged, and the Borough's representative is able to demonstrate probable cause to believe that there may be a violation of this Ordinance or Part, or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this Ordinance or Part or any order issued hereunder, or to protect the overall public health, safety and welfare of the community, then the authorized enforcement agency may seek issuance of a search warrant from any court of competent jurisdiction.

**SECTION 10. PREVENTION, CONTROL AND REDUCTION OF STORM WATER POLLUTANTS BY USE OF BEST MANAGEMENT PRACTICES (BMPs).** The Borough will adopt requirements identifying best management practices for any activity, operation or facility which may cause or contribute to pollution or contamination of storm water, the storm drain system or waters of the Commonwealth of Pennsylvania or of the United States of America. The owner or operator of a commercial or industrial establishment or facility shall provide, at the expense of the owner or operator, reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain or storm sewer system or any watercourse through the use of these structural and nonstructural BMPs. Further, any person responsible for a property or premises which is, or may be, the source of an illegal discharge may be required to implement, at said person's expense, additional structural and nonstructural BMPs to prevent the further discharge of pollutants to the MS4. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of storm water associated with industrial activity, to the extent practicable, shall be deemed as compliance with the provisions of this section. These BMPs shall be part of a storm water pollution prevent plan as necessary for compliant with requirements of the NPDES permit.

**SECTION 11. WATERCOURSE PROTECTION.** Every person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the watercourse within the property free of trash, debris, excessive vegetation and other obstacles that would pollute, contaminate or significantly retard or impede the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse so that such structures will not become a hazard to the use, function or physical integrity of the watercourse.

**SECTION 12. NOTIFICATION OF SPILLS.** Notwithstanding other legal duties and requirements, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting or may result in illegal discharges or pollutants discharging into storm water, a storm drain or storm sewer system or into any waters of the Commonwealth of Pennsylvania or of the United States of America, said person shall take all necessary steps to ensure the discovery, containment and cleanup of such release. In the event of such a release of hazardous materials, said person shall immediately notify emergency response agencies of the occurrence by and through emergency dispatch services. In the event of a release of nonhazardous materials, said person shall notify the authorized enforcement agency, in person, by telephone, by electronic mail or by facsimile transmission, no later than the next business day following the release or discharge. Notifications in person or by telephone shall be confirmed by written notice addressed and mailed to the Borough within three (3) business days of the telephone notification. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three (3) years following the release or discharge.

**SECTION 13. ENFORCEMENT; NOTICE OF VIOLATION.**

- A. Whenever the Borough finds that a person has violated a prohibition or failed to meet a requirement of this Ordinance or Part, the Borough may order compliance by written notice of violation to the responsible person. Such notice may require, without limitation:
- (1) The performance of monitoring, analyses and reporting;
  - (2) The elimination of illicit connections or illegal discharges;
  - (3) That violating discharges, practices or operations shall cease and desist;
  - (4) The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property;
  - (5) Payment of a fine to cover administrative and remediation costs; and
  - (6) The implementation of source control or treatment BMPs.

**SECTION 14. APPEAL OF NOTICE OF VIOLATION.** Any person receiving a notice of violation may appeal the determination of the Borough to the Code Enforcement Appeals Board of the Borough of Gettysburg consistent with Chapter 1, Part 6.C. of the Borough Code of Ordinances. The application for an appeal shall be filed with the Borough Secretary not later than thirty (30) days after the notice of violation is issued.

**SECTION 15. ENFORCEMENT MEASURES AFTER APPEAL.** If the violation has not been corrected pursuant to the requirements set forth in the notice of violation or, in the event of an appeal, within thirty (30) days of the Board's decision upholding the determination of the Borough, then representatives of the Borough shall enter upon the subject private property and are authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful for any person, owner, agent or person in possession of any premises to refuse to allow the Borough or representatives to enter upon the premises for the purposes set forth herein.

**SECTION 16. COST OF ABATEMENT OF VIOLATION.**

- A. Within thirty (30) days after abatement of the violation, the owner of the property will be notified of the cost of abatement, including administrative costs. The property owner may thereafter file a written protest objecting to the amount of the assessment within thirty (30) days. If the amount due is not paid within a timely manner as determined by the decision of the Borough or by the expiration of the time in which to file an appeal, the charges shall become a special assessment against the property and shall constitute a municipal lien on the property for the amount of the assessment.
- B. Any person violating any of the provisions of this Ordinance or Part shall become liable to the Borough by reason of such violation. The liability shall be paid in not more than twelve (12) equal installment payments. Interest at the legal rate shall be assessed on the liability if paid in installment payments as aforesaid.

**SECTION 17. INJUNCTIVE RELIEF.** It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Ordinance or Part. If a person has violated or continues to violate the provisions of this Ordinance or Part, the Borough may petition a court of competent jurisdiction for a preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.

**SECTION 18. COMPENSATORY ACTION.** In lieu of enforcement proceedings, penalties and remedies authorized by this Ordinance or Part, the Borough may impose upon a violator alternative compensatory actions, to include, but not limited to, storm drain or storm sewer stenciling, attendance at compliance workshops or cleanup activities.

**SECTION 19. VIOLATIONS DEEMED PUBLIC NUISANCE.** In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this Ordinance or Part is a threat to public health, safety and welfare and is declared and deemed a public nuisance and may be summarily abated or restored at the violator's expense, and/or a civil action to abate, enjoin or otherwise compel the cessation of such nuisance may be taken.

**SECTION 20. PENALTY.** Any person who shall violate this Ordinance or Part shall, upon conviction thereof, be sentenced to pay a fine of not more than \$1,000.00 and the costs of prosecution. Each day that a violation of this Ordinance or Part continues shall constitute a separate offense.

**SECTION 21. RECOVERY OF EXPENSES.** The Borough may recover all attorney's fees, court costs and other expenses associated with enforcement of this Ordinance or Part, either criminal or civil, including sampling and monitoring expenses or other costs of investigation incurred by the Borough.

**SECTION 22. REMEDIES NOT EXCLUSIVE.** The remedies set forth in this Ordinance or Part are not exclusive of any other remedies available under any applicable federal, state or local law, and it is within the discretion of the Borough to seek any cumulative remedies.

**SECTION 23: SEVERABILITY.** The provisions of this Ordinance or Part are severable, and if any section, clause, part or provision hereof shall be held to be illegal, invalid or unconstitutional by any court of competent jurisdiction, such decision of that court shall not affect or impair the remaining sections, sentences, clauses, parts or provisions of this ordinance. It is hereby declared to be the intent of the Borough Council of the Borough of Gettysburg that this Ordinance would have been enacted if such illegal, invalid or unconstitutional section, sentence, clause, part or provision had not been included in this Ordinance or Part.

**SECTION 24: REPEALER.** All other ordinances or parts of ordinances inconsistent herewith are hereby repealed insofar as the same affect this Ordinance.

**SECTION 25. EFFECTIVE DATE.** This Ordinance shall take effect upon enactment.

**THIS ORDINANCE DULY ENACTED AND ORDAINED** according to law on this 10<sup>th</sup> day of June, 2019, at a duly advertised general monthly business meeting of the Borough Council of the Borough of Gettysburg, Adams County, Pennsylvania.

## **Illicit Discharge Field Inspection Protocol**

Outfall mapping and inspections are required per MCM #3 of the MS4 Permit. The following procedures and practices must be observed by the Municipality and Inspector to meet the requirements of the permit. In the event an inspector has questions regarding procedural or reporting requirements, please contact Chad M. Clabaugh, C. S. Davidson, at (717) 337-3021 for clarification.

### **Procedure for Screening Outfalls:**

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

### **Procedure for Identifying the Source of an Illicit Discharge:**

- The field inspector shall observe physical characteristics to determine the type of discharge. Section 4 of the Inspection Sheet shall be utilized for this analysis.
- The field inspector shall determine the discharge’s point of origin by tracing the flow back through the drainage system to find the source. The outfall map shall be utilized for this process.
- In the event that the type or source of illicit discharge cannot be determined by physical characteristics or visual inspection, a lab sample shall be collected for analysis. The following parameters should be utilized as “action levels”:
  - pH – less than 6 S.U. or greater than 9 S.U.
  - Conductivity – greater than 750  $\mu\text{mhos/cm}$  ( $\mu\text{S/cm}$ )
  - Fecal Coliform – greater than 2,000/100 mL
  - Heavy Metals – ten (10) times the applicable water quality standard in 25 Pa. Code Chapter 93
  - COD - 100 mg/L
  - BOD5 – 50 mg/L
  - TSS – 100 mg/L
  - TDS – 500 mg/L
  - Oil and Grease – 30 mg/L
  - TRC – 0.5 mg/L
  - Ammonia-Nitrogen – 1.0 mg/L
- In the event dry weather flow is encountered but no physical or visual evidence indicate that the discharge contains pollutants, the field inspector may attribute this flow to clean ground water based on historical data and knowledge of the area. The location of the groundwater base flow shall be noted on the outfall map and future inspections shall consider this parameter.

### **Procedure for Eliminating an Illicit Discharge:**

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

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

## **Inspection Sheet Guidance**

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

### Section 1

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

### Section 2

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

### Section 3

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

### Section 4

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

### Section 5

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

### Section 6

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

### Section 7

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

### Section 8

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

**OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET**

**Section 1: Background Data**

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

**Section 2: Outfall Description**

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

**Section 3: Quantitative Characterization**

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

**Outfall Reconnaissance Inventory Field Sheet**

**Section 4: Physical Indicators for Flowing Outfalls Only**

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

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

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

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

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

**Section 6: Overall Outfall Characterization**

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

**Section 7: Data Collection**

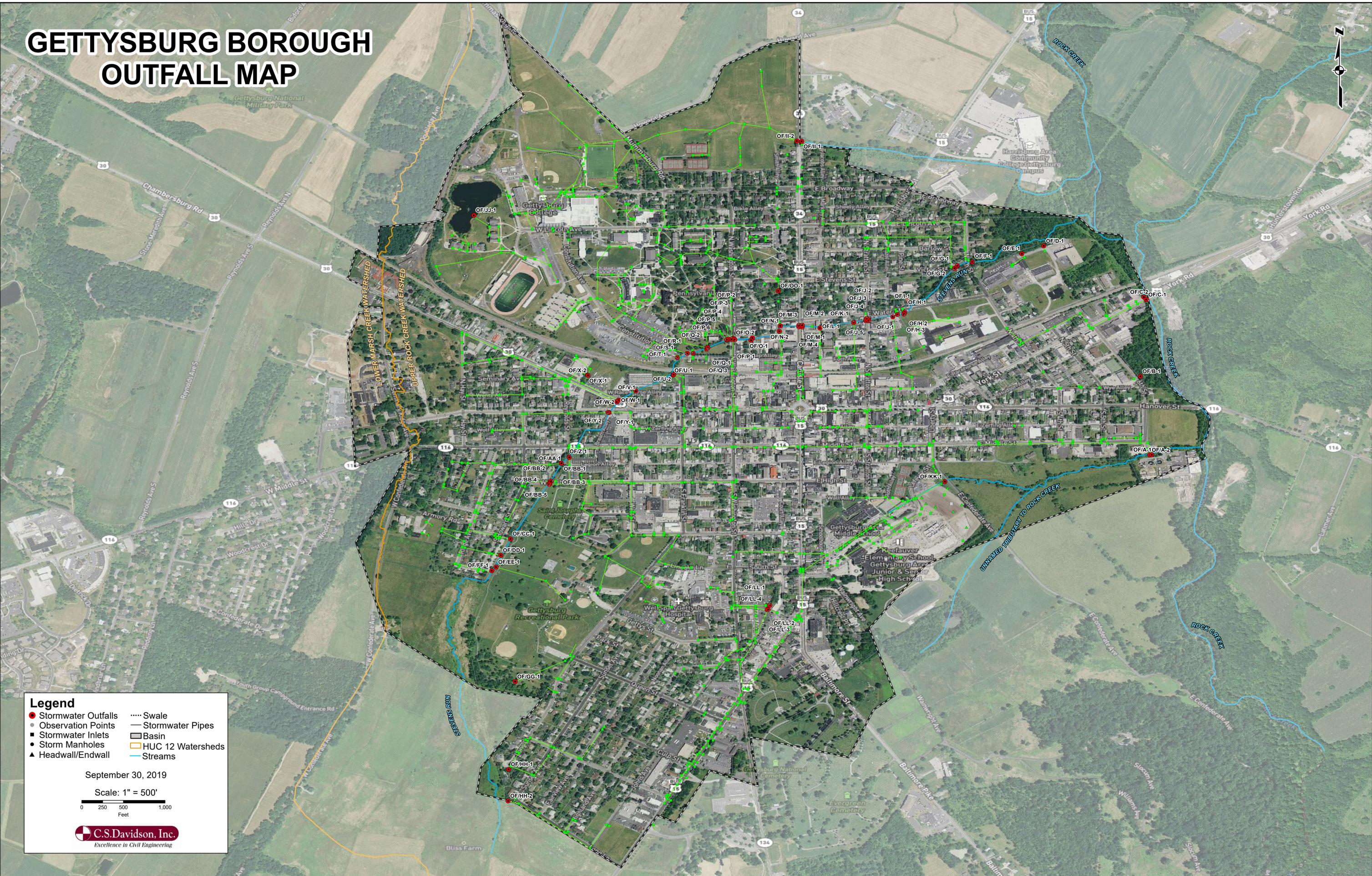
1. Sample for the lab?  Yes  No

2. If yes, collected from:  Flow  Pool

3. Intermittent flow trap set?  Yes  No If Yes, type:  OBM  Caulk dam

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

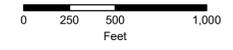
# GETTYSBURG BOROUGH OUTFALL MAP



- Legend**
- Stormwater Outfalls
  - Observation Points
  - Stormwater Inlets
  - Storm Manholes
  - ▲ Headwall/Endwall
  - ..... Swale
  - Stormwater Pipes
  - Basin
  - ▭ HUC 12 Watersheds
  - Streams

September 30, 2019

Scale: 1" = 500'



ORDINANCE NO. 1402-1a

**THE GETTYSBURG BOROUGH  
STORMWATER MANAGEMENT ORDINANCE**

**ARTICLE I – GENERAL PROVISIONS**

**Section 101: Short Title**

This Ordinance shall be known and may be cited as the “The Gettysburg Borough Stormwater Management Ordinance.”

**Section 102: Statement of Findings**

The Borough Council of the Borough of Gettysburg finds that:

- A. Stormwater is an important water resource, which provides groundwater recharge for water supplies and base flow of streams, which also protects and maintains surface water quality.
- B. Inadequate management of accelerated runoff of stormwater resulting from development throughout a watershed increases flows and velocities, contributes to erosion and sedimentation, overtaxes the carrying capacity of streams and storm sewers, greatly increases the cost of public facilities to carry and control stormwater, undermines floodplain management and flood control efforts in downstream communities, reduces groundwater recharge, threatens public health and safety, and increases nonpoint source pollution of water resources.
- C. A comprehensive program of stormwater management, including reasonable regulation of development and activities causing accelerated runoff, is fundamental to the public health, safety, and welfare and the protection of the people of Gettysburg Borough, their resources, and the environment.

**Section 103: Purpose**

The purpose of this Ordinance is to promote health, safety, and welfare within Gettysburg Borough and its watersheds by minimizing the harm and maximizing the benefits described in Section 102 of this Ordinance, through provisions designed to:

- A. Meet water quality requirements under state law, including regulations at 25 Pa. Code 93, to protect, maintain, reclaim, and restore the existing and designated uses of the waters of the Commonwealth.
- B. Preserve the natural drainage systems as much as possible.
- C. Manage stormwater runoff close to the source.
- D. Provide procedures and performance standards for stormwater planning and management.



- E. Maintain groundwater recharge to prevent degradation of surface and groundwater quality and to otherwise protect water resources.
- F. Prevent scour and erosion of stream banks and stream beds.
- G. Provide proper operation and maintenance of all stormwater management Best Management Practices that are implemented within Gettysburg Borough.
- H. Provide standards to meet NPDES permit requirements.

**Section 104: Statutory Authority**

The Borough of Gettysburg is empowered to regulate land use activities that affect stormwater impacts by the authority of the Act of October 4, 1978, P.L. 864 (Act 167), 32 P.S. Section 680.1, et seq., as amended, the “Stormwater Management Act,” by authority of the Act of February 1, 1966, 1965 P.L. 1656 (Act 581), 53 P.S. Section 45101 et seq., as amended, the “The Borough Code” and by the authority of the Act of July 31, 1968, P.L. 805 (Act 247), 53 P.S. 10101 et seq., as amended, the Municipalities Planning Code.

**Section 105: Applicability**

- A. All Regulated Activities, as defined in Article II, and all activities that may affect stormwater runoff, including land development and earth disturbance activity, are subject to regulation by this Ordinance.
- B. Any submission that does not require a stormwater management plan at the time of subdivision or land development will still be required to address stormwater management at the time the individual lots are developed or construction commences, unless said subdivision proposes infrastructure features, such as a cul-de-sac street, for which stormwater management controls are ordinarily required.
- C. Development of the individual lots is subject to stormwater management as defined within this Ordinance.

**Section 106: Repealer**

Any other ordinance provision or regulation of the Borough of Gettysburg inconsistent with any of the provisions of this Ordinance is hereby repealed to give this Ordinance full force and effect to the extent of the inconsistency only. Specifically, Ordinance No. 1312-05, enacted on December 12, 2005, Chapter 17 of the Code of Ordinances of the Borough of Gettysburg, entitled “Stormwater Management,” is hereby repealed as it is superseded by this Ordinance.

**Section 107: Severability**

In the event that a court of competent jurisdiction declares any section, clause or provision of this Ordinance invalid, such decision shall not affect the validity of any of the remaining sections, clauses or provisions of this Ordinance.

### **Section 108: Compatibility with Other Requirements**

Approvals issued and actions taken under this Ordinance do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other code, law, regulation, or ordinance. In the event of a conflict, between this Ordinance and any other ordinance, the more restrictive ordinance shall apply.

### **Section 109. Interpretation**

Unless otherwise expressly stated, the succeeding shall, for the purposes of this Ordinance, be interpreted in the following manner:

- A. Words used in the present tense also imply the future tense.
- B. Words used in the singular include the plural, and vice versa.
- C. Words of masculine gender include feminine gender, and vice versa.
- D. The words and abbreviation “includes,” “including,” “shall include,” “such as,” and “e.g.” are not limited to the specific example(s) given but are intended to extend the words or words’ meaning(s) to all other instances of like kind and character.
- E. The words “shall,” “required,” or “must” are mandatory; the words “may” and “should” are permissive.

### **Section 110: Erroneous Permit**

Any permit or authorization issued or approved based on false, misleading or erroneous information provided by an applicant is void without the necessity of any proceedings for revocation. Any work undertaken or use established pursuant to such permit or other authorization is unlawful. No action may be taken by any board, agency or employee of Gettysburg Borough purporting to validate such a violation.

### **Section 111: Duty of Persons Engaged in the Development of Land**

Notwithstanding any provision(s) of this Ordinance, including exemptions, any landowner or any person engaged in the alteration or development of land which may affect stormwater runoff characteristics shall implement such measures as are reasonably necessary to prevent injury to health, safety, or other property. Such measures shall include actions as are required to manage the rate, volume, direction, and quality of resulting stormwater runoff in a manner which adequately protects health, property and water quality.

### **Section 112: Municipal Liability Disclaimer**

- A. Neither the granting of any approval under this Ordinance, nor the compliance with the provisions of this Ordinance, or with any condition imposed by a Gettysburg Borough official

hereunder, shall relieve any person from any responsibility or damage to persons or property resulting there from, or as otherwise imposed by law nor impose any liability upon Gettysburg Borough for damages to persons or property.

- B. The granting of a permit which includes any stormwater management facilities shall not constitute a representation, guarantee, or warranty of any kind by Gettysburg Borough, or by an official or employee thereof, of the practicability or safety of any structure, use or other plan proposed, and shall create no liability upon or cause of action against such public body, official or employee for any damage that may result pursuant thereto.

## **ARTICLE II – DEFINITIONS**

### **Section 201: Definitions**

**Adams County Conservation District** - As defined in Section 3(c) of the Conservation District Law (3 P.S. § 851 (c)) that has the authority under a delegation agreement executed with DEP to administer and enforce all or a portion of the regulations promulgated under 25 Pa. Code 102.

**Agricultural Activity** - Activities associated with agriculture such as agricultural cultivation, agricultural operation, and animal heavy use areas. This includes the work of producing crops including tillage, land clearing, plowing, disking, harrowing, planting, harvesting crops or pasturing and raising of livestock and installation of conservation measures. Construction of new buildings or impervious area is not considered an agricultural activity.

**Alteration** - As applied to land, a change in topography as a result of the moving of soil and rock from one (1) location or position to another; changing of surface conditions by causing the surface to be more or less impervious; land disturbance.

**Applicant** - A landowner, developer, or other person who has filed an application to Gettysburg Borough for approval to engage in any Regulated Activity at a project site in the Borough.

**Best Management Practice (BMP)** - Activities, facilities, designs, measures, or procedures used to manage stormwater impacts from Regulated Activities, to meet state water quality requirements, to promote groundwater recharge, and to otherwise meet the purposes of this Ordinance.

**Best Management Practice, Nonstructural** - Operational and/or behavior-related practices that attempt to minimize the contact of pollutants with stormwater runoff.

**Best Management Practice, Structural** - Measures consisting of a physical device or practice that is installed to capture and treat stormwater runoff. Structural BMPs include, but are not limited to, a wide variety of practices and devices, from large-scale retention ponds and constructed wetlands, to small-scale underground treatment systems, infiltration facilities, filter strips, low impact design, bioretention, wet ponds, permeable paving, grassed swales, riparian or forested buffers, sand filters, detention basins, and manufactured devices. Structural stormwater BMPs are permanent appurtenances to the project site.

**BMP Manual** - Pennsylvania Stormwater Best Management Practices Manual, Pennsylvania Department of Environmental Protection, December 2006 (Document #363-0300-002), as amended and updated.

**Borough** – Borough of Gettysburg, Adams County, Pennsylvania.

**Borough Council** – Borough Council of the Borough of Gettysburg, Adams County, Pennsylvania.

**Borough Engineer** - a professional engineer licensed as such in the Commonwealth of Pennsylvania, duly appointed as the engineer for the Borough of Gettysburg, Adams County, Pennsylvania.

**Clean Water Act** - The Federal Water Pollution Control Act, 33 U.S.C. §1251 *et seq.*, and any subsequent amendments thereto.

**Code Enforcement Appeals Board** – The Code Enforcement Appeals Board of the Borough of Gettysburg, Adams County, Pennsylvania, as established by Ordinance No. 1372-10 and codified as Chapter 1, Part 6.C. of the Code of Ordinances of the Borough of Gettysburg.

**Commonwealth** – The Commonwealth of Pennsylvania.

**Contributory Drainage Area (of Impervious Surface)** - The area of the impervious surface contributing to a concentration point directed to a pervious surface.

**Conveyance Facility** - a natural conveyance channel, manmade conveyance channel or pipe conveyance facility including but not limited to, streams, channels, swales, pipes, conduits, culverts and storm sewers

**County** - Adams County, Pennsylvania.

**Culvert** - A structure which carries surface water through an obstruction.

**Dam** - An impoundment structure regulated by the Pennsylvania DEP Chapter 105 regulations.

**DEP** - The Pennsylvania Department of Environmental Protection.

**Design Storm** - The magnitude and temporal distribution of precipitation from a storm event measured in probability of occurrence, e.g., a 5-year storm, and duration, e.g., 24 hours, used in the design and evaluation of stormwater management systems.

**Detention Basin** - A structure designed to retard stormwater runoff by temporarily storing and releasing the runoff at a predetermined rate.

**Detention Volume** - The volume of runoff that is captured and released into the waters of this Commonwealth at a controlled rate.

**Developer** - Any person, partnership, association, company, corporation or other entity, or any responsible person therein or agent thereof, that undertakes any Regulated Activity.

**Development Site (Site)** - See Project Site.

**Disconnected Impervious Area (DIA)** - An impervious or impermeable surface that is disconnected from any stormwater drainage or conveyance system and is redirected or directed to a pervious area, which allows for infiltration, filtration, and/ or increased time of concentration.

**Disturbed Area** - An unstabilized land area where an earth disturbance activity is occurring or has occurred.

**Downslope Property Line** - That portion of a property line of a lot or parcel of land being developed located such that overland or pipe flow from the development site would be directed toward it.

**Drainage Easement** - A limited right granted in perpetuity running with the land by a landowner to a grantee, allowing for the use of private land for stormwater management, drainage, or conveyance purposes.

**Earth Disturbance Activity** - A construction or other human activity which disturbs the surface of the land, including land clearing and grubbing, grading, excavations, embankments, land development, agricultural plowing or tilling, operation of animal heavy use areas, timber harvesting activities, road maintenance activities, oil and gas activities, well drilling, mineral extraction, and the moving, depositing, stockpiling, or storing of soil, rock or earth materials.

**Erosion** - The natural process by which the surface of the land is worn away by water, wind, or chemical action.

**E&S Manual** - The Pennsylvania DEP Erosion and Sedimentation Control Manual, as subsequently amended and updated from time to time by DEP.

**Erosion and Sedimentation Control Plan (E&S Plan)** - A site-specific plan consisting of both drawings and a narrative that identifies BMPs to minimize accelerated erosion and sedimentation before, during and after earth disturbance activities.

**Existing Condition** - The dominant land cover during the 5-year period immediately preceding a proposed Regulated Activity.

**FEMA** - Federal Emergency Management Agency.

**Floodplain** - Any land area susceptible to inundation by water from any natural source or delineated by applicable FEMA maps and studies as being a special flood hazard area.

**Floodway** - The channel of the watercourse and those portions of the adjoining floodplains that are reasonably required to carry and discharge the 100-year flood. Unless otherwise specified, the boundary of the floodway is as indicated on maps and flood insurance studies provided by FEMA. In an area where no FEMA maps or studies have defined the boundary of the 100-year floodway, it is assumed, absent evidence to the contrary, that the floodway extends from the stream to 50 feet from the top of the bank of the stream.

**Flow Path** - The path that stormwater follows from the discharge point to the nearest property line or conveyance facility. The length of the path is measured along the ground slope.

**Forest Management / Timber Operations** - Planning and activities necessary for the management of forest land. These include conducting a timber inventory, preparation of a forest management plan, silvicultural treatment, developing or establishing a cutting budget, logging road design and construction, timber harvesting, site preparation, and reforestation.

**Freeboard** - A vertical distance between the elevation of the design high water and the top of a dam, levee, tank, basin, or diversion ridge. The space is required as a safety margin in a pond or basin.

**Gettysburg Borough** – The Borough of Gettysburg, Adams County, Pennsylvania.

**Grade** - A slope, usually of a road, channel or natural ground specified in percent and shown on plans as specified herein.

**Groundwater Recharge** - Replenishment of existing natural underground water supplies.

**Hazardous Materials / Substances** - Any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

**Impervious Surface (Impervious Area)** - A surface that prevents the infiltration of water into the ground. Impervious surfaces and areas include but are not limited to roofs, additional indoor living spaces, patios and decks, garages, storage sheds and similar structures, streets, driveways, access drives, parking areas, and sidewalks. Any areas designed to be covered by loose surfacing materials such as gravel, stone and/or crushed stone, and intended for storage of and/or travel by vehicles, or pedestrians shall be considered impervious; however, a credit may be given for pervious surface that are designed and maintained as such. The credit shall be developed on a case by case basis. Surfaces or areas designed, constructed and maintained to permit infiltration may be considered pervious in terms of stormwater management; however, this definition is not iterative throughout all definitions as determined by the Subdivision and Land Development and Zoning Ordinances (e.g., impervious coverage (as allowed per zoning ordinances) must include the pervious surfaces such as porous concrete or pavers in the impervious area calculation).

**Infiltration** - Water flowing downward through the ground surface.

**Infiltration Structures** - A structure designed to direct runoff into the ground (e.g., french drains, seepage pits, and seepage trenches).

**Infiltration Trench / Bed** - An area of excavated earth filled with loose stone or similar materials into which surface water is directed for infiltration into the ground.

**In-Kind Repair / Replacement** - Repair or replacement of materials with the same or similar materials in the same location in a manner that may not affect stormwater runoff.

**Inlet** - A surface connection to a closed drain. A structure at the diversion end of a conduit. The upstream end of any structure through which water may flow.

**Invasive / Exotic Plants** - Plant species on the “Invasive Exotic Plants in Pennsylvania List” published by the PA Department of Conservation and Natural Resources, as subsequently amended and updated from time to time by DCNR.

**Karst** - A type of topography or landscape characterized by surface depressions, sinkholes, rock pinnacles/uneven bedrock surface, underground drainage, and caves. Karst is formed on carbonate rocks, such as limestone or dolomite.

**Land Development** - Shall include any of the following activities:

- A. The improvement of one lot or two or more contiguous lots, tracts, or parcels of land for any purpose involving:
  - 1. A group of two (2) or more residential or nonresidential buildings, whether proposed initially or cumulatively, or a single nonresidential building on a lot or lots regardless of the number of occupants or tenure; or
  - 2. The division or allocation of land or space, whether initially or cumulatively, between or among two (2) or more existing or prospective occupants by means of, or for the purpose of streets, common areas, leaseholds, condominiums, building groups, or other features.
- B. A subdivision of land.
- C. Development in accordance with Section 503(1.1) of the Pennsylvania Municipalities Planning Code.

**Loading Ratio** – The ratio of impervious area draining to a stormwater management facility to the area of the stormwater management facility itself.

**Minor Stormwater Management Plan** - A plan prepared and submitted to Gettysburg Borough for a proposed project which qualifies to use the Simplified Approach. The Minor Stormwater Management Plan requirements are set forth in Appendix D which is attached hereto and made a part of this Ordinance.

**Modified Puls Method** – A method of routing stormwater runoff through a stormwater management facility. Also referred to as the storage indication method.

**Municipality** - Borough of Gettysburg, Adams County, Pennsylvania.

**Noxious Plant** - Those species as listed in the PA Noxious Weed Control Law (3 P.S. §§ 255.1—255.11), as subsequently amended and/or recodified from time to time.

**NPDES** - National Pollution Discharge Elimination System, as authorized by the Clean Water Act (33 U.S.C. §1251 et seq. [1972], as amended).

**NPDES Permit** - A permit required for stormwater discharges associated with construction activities, as required by the Clean Water Act (33 U.S.C. §1251 et seq. [1972], as amended).

**NRCS** - USDA Natural Resources Conservation Service (previously SCS).

**O&M** - Operation and Maintenance.

**O&M Plan** - Operation and Maintenance Plan.

**Outfall** - (i) Point where water flows from a conduit, stream, or drain; (ii) "Point Source" as described in 40 CFR § 122.2 at the point where the Borough's storm sewer system discharges to surface Waters of the Commonwealth.

**PCSM** - Post-Construction Stormwater Management.

**PCSM Plan** - Post Construction Stormwater Management Plan.

**Peak Discharge** - The maximum rate of stormwater runoff from a specific storm event.

**Percolation** - The downward movement, under the influence of gravity, of water under hydrostatic pressure through interstices of the soil or rock.

**Person** - An individual, partnership, association, company or corporation, firm, trust, estate, governmental unit, municipal authority, public utility or any other legal entity whatsoever. Whenever used in any section prescribing or imposing a penalty, the term "person" shall include the members of a partnership, association or company, the officers, directors and employees of a corporation and the officers and appointed officials of a governmental unit, municipal authority or public utility.

**Pervious Area** - Any area not defined as impervious.

**Pennsylvania Municipalities Planning Code** - Act of 1968, P.L.805, No. 247, as reenacted and amended.

**Planning Commission** – The Planning Commission of the Borough of Gettysburg, Adams County, Pennsylvania.

**Point of Interest** – A location specified for the purposes of analyzing a study area including, but not limited to, drainage areas, watersheds, inflow or discharge of stormwater.

**Point Source** - Any discernible, confined, or discrete conveyance, including, but not limited to: any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, CAAP, CAFO, landfill leachate collection system, or vessel or other floating craft from which pollutants are or may be discharged.

**Project Site (Site)** - The specific area of land where any Regulated Activity in Gettysburg Borough is planned for, conducted on, constructed, or maintained.

**Qualified Professional** - Any person licensed by the Pennsylvania Department of State or otherwise qualified by law to perform the work required by this Ordinance.

**Rational Method** - A rainfall-runoff relation used to estimate peak flow.

**Regulated Activity** - Any activities or actions that involves the alteration, disturbance or development of land in a manner that may affect stormwater runoff.

**Regulated Earth Disturbance Activity** - Activity involving earth disturbance subject to regulation under 25 Pa. Code 92, 25 Pa. Code 102, or the Clean Streams Law.

**Removed Runoff** - The volume of runoff that is captured and not released directly into the surface waters of the Commonwealth during or after a storm event.

**Retention Basin** - An impoundment in which stormwater is stored and not released to surface waters of the Commonwealth during a storm event. Water stored within a retention basin during a storm event may be released at some time after the end of a storm.

**Return Period** - The average interval, in years, within which a storm event of a given magnitude can be expected to occur one time. For example, the 25-year return period rainfall would be expected to occur on average once every 25 years; or stated in another way, the probability of a 25-year storm occurring in any one year is 0.04, i.e., a 4% chance.

**Riparian Buffer** - A Best Management Practice that consists of permanent vegetation along surface waters. (Such areas serve as natural vegetative filters between upland landscapes and waterways.)

**Riparian Forest Buffer** - A type of riparian buffer that consists of permanent vegetation that is predominantly native trees and shrubs along surface waters that is maintained in a natural state or sustainably managed to protect and enhance water quality, stabilize stream channels and banks, and separate land use activities from surface waters.

**Riser** - A vertical pipe extending from the bottom of a pond or other water impoundment that is used to control the discharge rate from the pond or impoundment for a specified design storm.

**Rooftop Detention** - Temporary ponding and gradual release of stormwater falling directly onto roof surface by incorporating control-flow roof drains into building design.

**Road Maintenance Activities** - See definition as found in Title 25, Chapter 102.1.

**Runoff** - Any part of precipitation that flows over the land.

**Runoff Characteristics** - The surface components on any watershed which either individually or in any combination thereof, directly affect the rate, amount and direction of stormwater runoff. These may include, but are not limited to; vegetation, soils, slopes and any type of manmade landscape alterations.

**Sediment** - Soils or other materials transported by surface water as a product of erosion.

**Sediment Basin** - A barrier, dam, retention or detention basin designed to retain sediment.

**Semi-Pervious Surface** - A surface which permits a limited amount of vertical transmission of water.

**Simplified Approach (SA)** – A process that property owners proposing certain types of projects may utilize to prepare a stormwater management plan without having to conduct the detailed technical analysis and design required for larger projects.

**Soil Cover Complex Method** - A method of runoff computation in NRCS publication “Urban Hydrology for Small Watersheds,” technical Release No. 55.

**Special Management Areas** - Those areas outlined in Chapter 7 of the BMP Manual. Special Management Areas include: brownfields, highways and roads, karst areas, mined lands, water supply well areas, surface water supplies and special protection waters.

**Spillway** - A depression in the embankment of a pond or basin which is used to pass peak discharge greater than the maximum design storm controlled by the pond or basin.

**State Water Quality Requirements** - The regulatory requirements to protect, maintain, reclaim, and restore water quality under Title 25 of the Pennsylvania Code and the Clean Streams Law.

**Storm Drain System** - Publicly or privately owned facilities by which stormwater is collected and/or conveyed including but not limited to, any roads with drainage systems, municipal streets, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and human-made or altered drainage channels, reservoirs, and other drainage structures.

**Storm Frequency** - The number of times that a given storm event occurs on average in a stated period of years.

**Storm Sewer** - A pipe or conduit, or a system of pipes or conduits, which intercepts and carries surface stormwater runoff, but excludes sewage, industrial wastes and similar discharges.

**Stormwater** - Drainage runoff from the surface of the land resulting from precipitation, snow melt or ice melt.

**Stormwater Best Management Practice (Stormwater BMP)** - Activities, facilities, designs, measures, or procedures used to manage stormwater impacts from Regulated Activities, to meet state water quality requirements, to promote groundwater recharge, and to otherwise meet the purposes of this Ordinance.

**Stormwater Management Facility** - Any structure, natural or man-made, that, due to its condition, design, or construction, conveys, stores, or otherwise affects stormwater runoff. Typical stormwater management facilities include, but are not limited to: detention and retention basins, open channels, storm sewers, pipes and infiltration facilities.

**Stormwater Management Plan (The Plan)** - The Adams County Stormwater Management Plan of January 27, 2012, which incorporates the requirements of the Act of October 4, 1978, P.L. 864 (Act 167), as amended, and known as the “Storm Water Management Act.”

**Stormwater Management Site Plan (SWM Site Plan)** - A plan prepared by the developer or his representative indicating how stormwater runoff will be managed at the development site in accordance with this Ordinance.

**Subdivision** - The division or re-division of a lot, tract or parcel of land by any means into two or more lots, tracts or parcels or other divisions of land including changes in existing lot lines for the purpose, whether immediate or future, of lease, partition by the court for distribution to heirs or devisees, transfer of ownership or building or lot development; provided, however, that the subdivision by lease of land for agricultural purposes of an area of more than ten acres, not involving any new street or easement of access or any residential dwelling, shall not be considered a subdivision.

**Swale** - A low-lying stretch of land which gathers and/or carries surface water runoff.

**SWM** - Stormwater Management.

**Technical Review Checklist (Optional)** - A checklist of technical items to be used by the reviewing entity when reviewing a PCSM Plan.

**Time of Concentration (tc)** - The time for surface runoff to travel from the hydraulically most distant point in a watershed to a point of interest within a watershed.

**USDA** - United States Department of Agriculture.

**Watercourse** - a stream of water; river, brook, creek, channel or ditch, whether natural or man-made.

**Waters of the Commonwealth** - Any and all rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, wetlands, ponds, springs, and all other bodies or channels of conveyance of surface and underground water, or parts thereof, whether natural or artificial, within or on the boundaries of the Commonwealth.

**Watershed** - Region or area drained by a river, watercourse, or other surface water of this Commonwealth.

**Wetland** - Areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs, and similar areas.

## **ARTICLE III – STORMWATER MANAGEMENT STANDARDS**

### **Section 301: General SWM Requirements**

- A. For all Regulated Activities, unless preparation of a SWM Site Plan is specifically exempted in Section 302:
1. Preparation and implementation of an approved SWM Site Plan is required.
  2. No Regulated Activities shall commence until the Borough issues written approval of an SWM Site Plan which demonstrates compliance with the requirements of this Ordinance.
- B. All SWM Site Plans for Regulated Activities shall include such measures as necessary to:
1. Protect health, safety, and property.
  2. Meet the water quality goals of this Ordinance, as set forth in Section 103 hereof, by including measures that:
    - a. Minimize disturbance to floodplains, wetlands, wooded areas, and existing vegetation.
    - b. Maintain or extend riparian buffers.
    - c. Avoid erosive flow conditions in natural flow pathways.
    - d. Minimize thermal impacts to waters of the Commonwealth.
    - e. Disconnect impervious surfaces by directing runoff to pervious areas.
    - f. Minimize soil disturbance and compaction.
  3. Incorporate the techniques for Low Impact Development Practices described in the Pennsylvania Stormwater Best Management Practices Manual (BMP Manual).
- C. Stormwater flows onto adjacent property shall not be created, increased, decreased, relocated, or otherwise altered without the written notification and written permission of the adjacent property owner(s) by the developer. Copies of all such notifications, permissions, licenses or easements shall be included in the SWM Site Plan submission.
- D. For all Regulated Activities where erosion and sediment control is required in accordance with Title 25 of the Pennsylvania Code and the Clean Streams Law, the SWM Site Plan shall include the required erosion and sedimentation control measures. Necessary E&S BMPs shall be designed in accordance with the Erosion and Sediment Pollution Control Program Manual (E&S Manual), No. 363-2134-008 (March 2012), as amended and updated. Approval of the SWM Site Plan by the Borough shall be conditioned on the applicant obtaining erosion and sedimentation control approval from the appropriate agency(ies), when applicable.

- E. For all Regulated Activities where NPDES permitting is required in accordance with the Clean Water Act (33 U.S.C. §1251 *et seq.* [1972], as amended), the SWM Site Plan shall include the information required in the applicant's NPDES Permit application. Approval of the SWM Site Plan by the Borough shall be conditioned on the applicant obtaining NPDES Permit approval from the appropriate agency(ies), when applicable.
- F. For all Regulated Activities, implementation of the volume controls in Section 303 and the peak rate controls of Section 304 is required unless exempt pursuant to Section 302 hereof.
- G. Special Management Areas – SWM Site Plans involving Regulated Activities within Special Management Areas shall be prepared in a manner consistent with the guidance provided in Chapter 7 of the BMP Manual. The SWM Site Plan submission shall include design details for Stormwater BMPs within said Special Management Area.
- H. A SWM Site Plan may propose that stormwater related to the proposed Regulated Activities be accommodated by existing stormwater management facilities on adjoining or nearby properties provided that the SWM Site Plan documents the following.
  - 1. The use of the Stormwater BMPs located on said adjoining or nearby property is approved in writing by the owner of the property.
  - 2. The Stormwater BMPs located on said adjoining or nearby property are designed in a manner that can accommodate the stormwater management needs of the Regulated Activity in a manner consistent with all requirements of this Ordinance. The SWM Site Plan shall include all documentation necessary for the Borough to confirm such compliance.
- I. SWM Site Plans, once approved by the Borough, shall remain on site throughout the duration of the Regulated Activity and be available for review as may be necessary by representatives of the Borough.
- J. The design of all Stormwater BMPs over karst geology shall include an evaluation of measures necessary to minimize adverse effects including hydro-geologic studies if required by the Borough.
- K. The Borough may, after consultation with and approval by DEP, approve measures for meeting the state water quality requirements other than those in this Ordinance, provided that they meet the minimum requirements of, and do not conflict with, state law including, but not limited to, the Clean Streams Law. The Borough shall maintain a record of consultations with DEP pursuant to this provision. Notwithstanding the foregoing, the Borough is not required to consult DEP for a waiver of the requirements set forth in Sections 306, 307, 308 and 309 herein.
- L. All natural streams, channels, swales, drainage systems and/or areas of surface water concentration shall be maintained in their existing condition unless an alteration is approved by the Borough. All encroachment activities shall comply with the requirements of 25 Pa. Code Chapter 105 (Water Obstructions and Encroachments), of the rules and regulations promulgated

by DEP. Any approvals or permits issued do not relieve compliance as referenced in Section 108, Compatibility with Other Permit and Ordinance Requirements.

- M. The technical standards provided within this Ordinance are considered the baseline for design and layout of an SWM Plan. Use of other alternative and innovate designs for controlling stormwater runoff may be permitted when approved by the Borough Engineer.
- N. All existing Stormwater Management Facilities and Agreements shall continue to be maintained with the intended functionality as designed and approved.
- O. All work shall be in accordance with the Borough's Construction and Material Specifications as approved and adopted from time to time by the Borough Council.

### **Section 302: Exemptions**

- A. A property owner or developer of any Regulated Activity that meets the following exemption criteria may be, upon approval by the Planning Commission, exempt from certain stormwater management requirements of this Ordinance. However, the property owner or developer shall be subject to all other requirements of this Ordinance other than related requirements for which an exemption or exemptions have been authorized. The criteria for exemption in this Section apply to the total development proposed, including instances in which the development is proposed to take place in phases. The date of enactment of this Ordinance shall be the starting point from which future development and the respective exemption criteria shall be cumulatively considered and regulated.
  - 1. Regulated Activities that involve less than 800 square feet of impervious surface, where the total cumulative impervious surface added since the adoption date of this Ordinance is less than 800 square feet, may be exempted from portions of Article III including volume control (Section 303) and peak rate control (Section 304), and may be exempted from all of Article IV and Article V of this Ordinance and the SWM Site Plan preparation and submission requirements of this Ordinance. The applicant shall complete requirements as defined by the Simplified Approach (see Appendix D which is attached hereto and made a part of this Ordinance).
  - 2. Regulated Activities that involve more than 800 square feet up to 5000 square feet of impervious surface where the total cumulative impervious added since the adoption date of this Ordinance is less than 5000 square feet, may be exempted from the peak rate control as set forth in Section 304 of this Ordinance.
  - 3. Agricultural Activities shall be exempt from the rate control, volume control and SWM Site Plan preparation and submission requirements of this Ordinance provided the agricultural activities are performed in accordance with the requirements of 25 Pa. Code 102. Further, such activities shall not be subject to the exemption approval process of Section 302.B of this Ordinance.
  - 4. Forest management and timber operations shall be exempted from the rate control, volume control and SWM Site Plan preparation and submission requirements of this

Ordinance provided the forest management and timber operations are performed in accordance with the requirements of 25 PA Code 102. Further, such activities shall not be subject to the exemption approval process of Section 302.B of this Ordinance.

5. Regulated Activities involving domestic gardening for single-family consumption shall be exempted from volume control, rate control, and SWM Site Plan preparation and submission requirements of this Ordinance. Further, such activities shall not be subject to the exemption approval process of Section 302.B of this Ordinance.
6. In Kind Repair, In Kind Replacement, and maintenance of existing surfaces, and structures shall be exempted from volume control, rate control, and SWM Site Plan preparation and submission requirements of this Ordinance. Further, such activities shall not be subject to the exemption approval process of Section 302.B of this Ordinance.
7. An area of up to 800 square feet of permeable pavers, permeable pavement, and/or green roofs may be considered as Pervious Area and may be accounted for, as such, when considering exemptions provided in Section 302.A.1 and 302.A.2 of this Ordinance. At a minimum, the submittal of a Minor Stormwater Management Plan in accordance with Appendix D which is attached hereto and made a part of this Ordinance will be required for any such projects.

B. Authorization of Exemptions: The Borough shall determine, in accordance with the following requirements and process, whether the proposed Regulated Activity may be exempted from the requirements of this Ordinance.

1. The property owner or developer proposing the Regulated Activity shall submit, in writing on a form supplied by the Borough, a request for said proposed Regulated Activity to be exempted from allowable requirements of this Ordinance pursuant to Section 302.A. The written request shall identify the project and shall indicate the specific exemption criteria, as listed in Section 302.A, that apply to the project.
2. Upon receipt of the plans and documents required, the Planning Commission or its designee shall either approve or deny the exemption request. If the exemption request is denied, the Planning Commission or its designee shall direct the property owner or developer to submit the information required to demonstrate that the proposed Regulated Activity complies with the requirements of this Ordinance or meets the exemption criteria.
3. Exemption request approval shall be at the discretion of the Planning Commission or its designee, and shall be subject to the following:
  - a. The Planning Commission may deny any exemption request or suspend or revoke any approved exemption request at any time for any project where Borough believes that the proposed Regulated Activity poses a threat to public health, safety, property, or the environment.

- b. Approval of an exemption request does not relieve the property owner or developer from other applicable requirements of this Ordinance or of other Borough ordinances or regulations.
- c. The Borough reserves the right to deny an exemption request if a drainage problem is known or identified by the Borough to exist or is expected to exist downstream from the proposed Regulated Activity.

### **Section 303: Volume Controls**

The low impact development practices provided in the BMP Manual shall be utilized for all Regulated Activities. Water volume controls shall be implemented using the Design Storm Method in Section 303.A

- A. The Design Storm Method (CG-1 in the BMP Manual) may be used for any size of Regulated Activity. This method requires detailed modeling to achieve the following standards.
  - 1. The post-development total runoff volume shall not increase for all storms equal to or less than the two (2)-year twenty-four (24) hour duration precipitation.
  - 2. For modeling purposes:
    - a. Existing (pre-development), non-forested, pervious areas must be considered meadow within the regulated activity area unless the existing land use dictates a lower runoff condition.
    - b. Twenty percent (20%) of existing impervious area within the regulated activity area, when present, shall be considered meadow in the model for existing conditions.
  - 3. Infiltration BMPs shall be designed pursuant to Section 306.S. and Section 306.T.
- B. Infiltration Alternative: Where infiltration is not possible due to soil characteristics or is not desirable given other characteristics, water quality control may be proposed as an alternative to strict adherence to the volume control standards of Section 303 of this Ordinance. Where water quality control is proposed, the following standards shall be achieved.
  - 1. At a minimum, the following documentation shall be provided to justify the proposal to reduce the infiltration requirements:
    - a. Description of and justification for field infiltration and permeability testing with respect to the type of test and test locations.
    - b. An interpretive narrative describing existing soils of the site and their structure as these relate to the interaction between soils and water characteristics of the site. In addition to providing soil and soil profile descriptions, this narrative shall identify depth to seasonal water tables and depth to bedrock and provide a description of

all subsurface elements (restrictive layers, geology, etc.) that influence the direction and rate of subsurface water movement.

- c. A qualitative assessment of the site’s contribution to annual aquifer recharge shall be made, along with the identification of any restrictions or limitations associated with the use of designed infiltration facilities.
  - d. The provided documentation must be signed and sealed by a qualified professional.
2. Water Quality BMPs shall be implemented on all permanent stormwater discharges from the proposed project site to achieve pollutant removal efficiencies in accordance with the following table. (Efficiency removal rating shall be based on a testing specification for particle size distribution as required per TARP Tier 1 and 2 Protocol Testing. The minimum design flow shall be based on the peak flow produced from 1” of rain as calculated.)

**Required Pollutant Removal Efficiencies for Infiltration Alternatives**

<b>Pollutant Load</b>	<b>Units</b>	<b>Required Removal Efficiency (%)</b>
Total Suspended Solids (TSS)	Pounds	85%
Total Phosphorus (TP)	Pounds	85%
Total Nitrate (NO <sub>3</sub> )	Pounds	50%

- 3. Design guidance from the most current version of the BMP Manual, or equivalent resource as pre-coordinated with the Borough, shall be consulted when choosing design criteria for water quality BMPs.

**Section 304: Rate Controls**

- A. Post-development discharge rates shall not exceed the pre-development discharge rates for the 1-, 2-, 5-, 10-, 25-, 50-, and 100-year 24-hour storms. If it is shown that the peak rates of discharge indicated by the post-development analysis are less than or equal to the peak rates of discharge indicated by the pre-development analysis for 1-, 2-, 5-, 10-, 25-, 50-, and 100-year, 24-hour storms, then the requirements of this section have been met. Otherwise, the applicant shall provide additional controls as necessary to satisfy the peak rate of discharge requirement.
- B. For computation of pre-development peak discharge rates:
  - 1. Existing (pre-development) pervious areas must be considered meadow within the regulated area, unless the existing land use dictates a lower runoff condition.
  - 2. Twenty percent (20%) of existing impervious area within the regulated activity area, when present, shall be considered meadow in the model for existing conditions.

- C. The developer shall demonstrate that the flows for the 1, 2, 5 and 10 year frequency storms peak rates are less than or equal to pre-development rates during the construction phase.

**Section 305: Stormwater Management Facilities for Pennsylvania Department of Transportation and Pennsylvania Turnpike Commission Roadways and Associated Facilities**

For the purposes of the Act 167 Stormwater Management (Plan) elements and this Ordinance, design policy pertaining to stormwater management facilities for Pennsylvania Department of Transportation (PennDOT) roadways and associated facilities is provided in Section 13.7 (Antidegradation and Post Construction Stormwater Management Policy) of PennDOT Publication No. 13M, Design Manual Part 2 (August 2009), as developed, updated, and amended in consultation with the PDEP. As stated in DM-2.13.7.D (Act 167 and Municipal Ordinances), PennDOT roadways and associated facilities shall be consistent with Act 167 Plans. DM-2.13.7.B (Policy on Antidegradation and Post Construction Stormwater Management) was developed as a cooperative effort between PennDOT and DEP. DM-2.13.7.C (Project Categories) discusses the anticipated impact on the quality, volume, and rate of stormwater runoff.

Where standards in the Act 167 Ordinance are impractical, PennDOT may request assistance from DEP, in consultation with the Borough and County, to develop an alternative strategy for meeting State water quality requirements and the goals and objectives of the Act 167 plan elements.

For the purposes of the Act 167 Ordinance, road maintenance activities are regulated under 25 PA Code Chapter 102.

**Section 306: Design Criteria and Standards**

- A. Off-Site Areas - Off-site areas proposed to drain through a proposed development site are not subject to release rate criteria when determining allowable peak runoff rates; however, on-site drainage facilities shall be designed to safely convey off-site flows through the development site. When conditions as described above are encountered, separate analysis for developed and off-site areas shall be made for comparison purposes.
- B. On-Site Areas - On-Site Areas proposed to remain outside a Regulated Activity area shall be considered as existing conditions, without considering any reductions in cover type. When conditions as described above are encountered, separate analysis for these areas shall be made for comparison purposes.
- C. Downstream Hydraulic Capacity Analysis - Any existing downstream hydraulic capacity analysis shall be conducted in accordance with this Ordinance.
  - 1. All downstream facilities impacted by the total site area of the Regulated Activity shall be studied to determine if the facility has adequate capacity to handle existing and proposed flows. An impacted downstream facility is one to which the runoff from the total site area of the Regulated Activity comprises more than 50% of the total flow to such a facility. The study shall end at a perennial stream. Downstream facilities include, but are not limited to, manmade or natural swales and open channels, pipes, inlets, culverts, bridges and roadways.

2. If any private facility is found to be undersized, the applicant shall be responsible for updating the facility in coordination with the Regulated Activity and appropriate municipal representation.
- D. Regional Detention Alternatives - For certain areas within the study area, it may be more cost-effective to provide one control facility for more than one development site than to provide an individual control facility for each development site. The initiative and funding for any regional runoff control alternatives are the responsibility of prospective developers. The design of any regional control basins must incorporate reasonable development of the entire upstream watershed. The peak outflow of a regional basin would be determined on a case-by-case basis using the hydrologic model of the watershed consistent with protection of the downstream watershed areas.
- E. Capacity Improvements of Local Drainage Networks - In certain instances, local drainage conditions may dictate more stringent levels of runoff control than those based upon protection of the entire watershed. In these instances, if the developer can prove that it would be feasible to provide capacity improvements to relieve the capacity deficiency in the local drainage network, then the capacity improvements could be provided by the developer in lieu of runoff controls on the development site. Any capacity improvements would be designed based upon development of all areas tributary to the proposed improvement and the capacity criteria specified in this Ordinance. In addition, all new development upstream of a proposed capacity improvement shall be assumed to implement the applicable runoff controls consistent with this Ordinance except that all new development within the entire subarea(s) within which the proposed development site is located shall be assumed to implement the developer's proposed discharge control, if any.
- F. Capacity improvements may be provided as necessary to implement any regional or sub-regional detention alternatives.
- G. Where the potential for groundwater and/or surface water contamination exists, based on the proposed use of the Regulated Activity, safeguards shall be incorporated into the site.
1. For industrial or commercial sites where it is possible that toxic or hazardous substances may come into contact with stormwater runoff, pretreatment of the first-flush (first 1/2 inch) runoff over areas where industrial and commercial operations take place shall be provided. Pretreatment shall include means for separating light and heavy toxic and hazardous substances from the stormwater before the stormwater is conveyed to the general stormwater management facilities.
  2. Infiltration systems may be used to handle runoff from commercial or industrial working or parking areas only after the first-flush stormwater from these areas has been pretreated for removal of toxic and hazardous substances.
- H. Roof drains and sump pumps shall discharge to lawns, infiltration or vegetative BMPs, or pervious areas wherever/whenever possible. If the above discharge criteria cannot be met or when it is more advantageous to connect directly to streets, storm sewers or other stabilized conveyance designations, then the discharge will be permitted on a case by case basis by the

Borough. All discharges shall be conveyed in a manner as to not cause water problems on adjoining property owners.

- I. Subsurface detention facilities shall provide adequately designed pretreatment for removal of pollutants, oil, trash and debris. Appropriate supporting information shall be provided for all proposed devices. All subsurface facilities shall be designed such that access for inspection and cleaning of the facility can occur.
- J. Inlets shall be placed on both sides of the street at low spots and at the upper side of street intersections to prevent stormwater from crossing an intersection. Other devices such as high efficiency grates or perforated pipe may be required if conditions warrant. All inlets at low points along the roadway shall have a ten (10") inch curb reveal and shall be equipped with pavement base drain extending 50 feet in either direction, parallel to the centerline of the roadway.
- K. Manholes, inlets, headwalls, and endwalls shall conform to the requirements of the PennDOT Publication 408, as modified by the adopted Borough Standards.
- L. Design Standards – Permanent Detention and Retention Facilities shall be designed to meet the following standards:
  - 1. The maximum permitted depth for dry detention or retention basins shall be 6 feet, measured from the bottom of the emergency spillway to the lowest point in the basin.
  - 2. The minimum top width of all basin embankments shall be 8 feet.
  - 3. The maximum permitted side slopes for detention or retention basins shall be 4 horizontal to 1 vertical. In order to obtain a waiver for slopes steeper than 4:1, the plan must include a planting schedule to stabilize the embankments. The proposed vegetation shall be low maintenance varieties.
  - 4. Minimum Bottom Slope - All detention basins shall have a minimum bottom slope of 2% unless infiltration facilities are provided.
  - 5. Any stormwater management facility (i.e., detention basin) designed to store runoff and requiring a berm or earthen embankment required or regulated by this Ordinance shall be designed to provide an emergency spillway to handle flow up to and including the 100-year, 24 hour design storm at post-development conditions, assuming the principal outlet structure to be clogged. The height of embankment must be set as to provide a minimum 1 foot of freeboard above the maximum elevation computed for the clogged orifice condition. Should any stormwater management facility require a dam safety permit under 25 Pa. Code Chapter 105, the facility shall be designed in accordance with 25 Pa. Code Chapter 105 and meet the regulations of 25 Pa. Code Chapter 105 concerning dam safety which may be required to pass storms larger than 100-year event.
  - 6. A cutoff trench of impervious material shall be provided within all basin embankments.

7. Where a basin embankment is constructed using fill on an existing 15% or greater slope, the basin must be keyed into the existing grade.
  8. Fencing. Any above-ground stormwater management detention/retention facility, that is designed to store at least a two foot (2') depth of runoff, shall be subject to the following fencing requirements:
    - a. A stormwater facility must be completely surrounded by a chain link fence of not less than four (4') feet in height. Alternative fences and barriers may be permitted upon request to and approval by the Borough.
    - b. All gates or doors opening through such enclosure shall be equipped with a self-closing and self-latching device for keeping the gate or door securely closed at all times, when not in actual use.
  9. All outlet structures and emergency spillways shall include a satisfactory means of energy dissipation at its outlet to assure conveyance and flow without endangering the safety and integrity of the basin and the downstream drainage area.
  10. A concentrated discharge of stormwater to an adjacent property shall be within a natural drainage way or watercourse, or an easement shall be required.
  11. All facilities shall be provided with an access slope at no more than 5:1 along with an access easement.
  12. Plans for infiltration must show the locations of existing and proposed septic tank infiltration areas and wells. A minimum of ten (10') feet separation from On Lot Disposal Systems (OLDS) infiltration areas, including replacement areas, is required; however, 25 feet is desirable. Infiltration rates shall be based upon perc and probe tests conducted at the site of the proposed facility.
  13. Guards shall be provided on all intake and outfall structures as well as outlet structures. The guard bars shall be one-half inch ( $\frac{1}{2}$ " ) diameter galvanized bars on six inch (6") centers attached to the structure with three eighths inch ( $\frac{3}{8}$ " ) diameter stainless steel anchors.
  14. All facilities shall specify a maintenance requirement that controls the growth of noxious and invasive plants as specified in Appendix B which is attached hereto and made a part of this Ordinance.
- M. All storage facilities shall completely drain both the volume control and rate control capacities over a period of time not less than 24 hours and not more than 72 hours from the end of the design storm. However, any designed infiltration at such facilities is exempt from the minimum 24-hour standard, i.e., may infiltrate in a shorter period of time, so long as none of the stormwater flowing into the infiltration facility is discharged directly into the surface waters of the Commonwealth. (Inordinately rapid infiltration rates may indicate the presence of large fractures or other conditions for which an additional soil buffer may be required.) Where extended detention facilities are utilized to mitigate increased volume, the increased volume is required to be detained

not less than 24 hours from the end of the 24 hour design storm (assuming the peak rate occurs at approximately the 12 hour time period in the storm).

- N. For all Regulated Activities, SWM BMPs shall be designed, implemented, operated, and maintained to meet the purposes and requirements of this Ordinance and to meet all requirements under Title 25 of the Pennsylvania Code, the Clean Streams Law, and the Stormwater Management Act.
- O. Design for BMPs shall be in accordance with design standards as listed in the BMP Manual or other legitimate source.
- P. Existing (pre-development), pervious areas must be considered meadow within the regulated area, unless the existing land use dictates a lower runoff condition.
- Q. Infiltration BMPs shall be spread out such that impervious to BMP loading ratios are less than or equal to 5:1, made as shallow as practicable, and located to maximize use of natural on-site infiltration features while still meeting the other requirements of this Ordinance.
- R. Impervious Area.
  - 1. The measurement of impervious areas shall include all of the impervious areas in the total proposed development, even if development is to take place in phases.
  - 2. For development taking place in phases, the total proposed impervious for all phases must be used in determining conformance with this Ordinance.
  - 3. For projects that add impervious area to a parcel, the total impervious area on the parcel is subject to the requirements of this Ordinance; except that the volume controls in Section 303 and the peak rate controls of Section 304 do not need to be considered for existing impervious areas that are not being altered by the proposed Regulated Activity.
  - 4. Twenty percent (20%) of existing impervious area within the regulated area, when present, shall be considered meadow in the model for existing conditions.
- S. Infiltration BMPs shall be designed in the following manner. A detailed soils evaluation of the project site shall be performed to determine the suitability of recharge facilities. The evaluation shall be performed by a qualified professional, and at a minimum, address soil permeability, depth to bedrock, susceptibility to sinkhole formation, and subgrade stability, seasonally high groundwater table, suitability of stormwater management facilities and maximum infiltration capacity in depth of water per unit area. The general process for designing the infiltration BMP shall be:
  - 1. Site evaluation to determine general areas of suitability for infiltration practices.
  - 2. Provide field test throughout the area proposed for development to determine appropriate percolation rate and/or hydraulic conductivity. At least one (1) infiltration test must be included in each soil group and at least one (1) infiltration test must be conducted for each

five (5) lots proposed for development. Infiltration tests must be taken at the location and depth of all proposed infiltration structures.

3. Design infiltration facility for required storm volume based on all available data.
  4. The infiltration requirement in the High Quality/Exceptional Waters shall be subject to Title 25, Chapter 93 of the Pennsylvania Code of Regulations and the anti-degradation regulations promulgated by DEP thereunder.
  5. A double ring infiltrometer test shall be used for all infiltration tests in accordance with the current edition of the BMP Manual.
- T. Plans for infiltration must show the locations of existing and proposed septic tank infiltration areas and wells. A minimum twenty-five (25) foot separation from On Lot Disposal Systems (OLDS) infiltration areas, including replacement areas, is desired and will be evaluated by the municipality on a case by case basis. However, the separation shall not be less than DEP required ten (10) feet.

### **Section 307: Regulations Governing Stormwater Management Facilities**

- A. Any stormwater facility located on State highway rights-of-way shall be subject to approval by the Pennsylvania Department of Transportation (PennDOT).
- B. Any stormwater management facilities regulated by this Ordinance that would be located in or adjacent to waters of the Commonwealth or wetlands shall be subject to approval by DEP through the Joint Permit Application process, or, where deemed appropriate by DEP, the General Permit process. When there is a question whether wetlands may be involved, it is the responsibility of the developer or his agent to show that the land in question cannot be classified as wetlands, otherwise approval to work in the area must be obtained from DEP.
- C. Any stormwater management facility located within the vicinity of a Floodplain shall be subject to approval in accordance with 25 Pa. Code Chapter 106 (Floodplain Management) of the rules and regulations promulgated by DEP.
- D. All earthmoving activities must be reviewed and approved by the Adams County Conservation District prior to commencing work.
- E. The design of all stormwater management facilities shall incorporate good engineering principles and practices. The Borough shall reserve the right to disapprove any design that would result in the occupancy or continuation of adverse hydrologic or hydraulic conditions within the watershed.
- F. The existing points of concentrated drainage that discharge onto adjacent property shall not be altered without written permission of the adjacent property owner(s) and shall be subject to any applicable discharge criteria specified in this Ordinance.
- G. Areas of existing diffused drainage discharge shall be subject to any applicable discharge criteria

in the general direction of existing discharge, whether proposed to be concentrated or maintained as diffused drainage areas, except as otherwise provided by this Ordinance. If diffused flow is proposed to be concentrated and discharged onto adjacent property, the developer shall document that adequate downstream conveyance facilities exist to safely transport the concentrated discharge, or otherwise prove that no erosion, sedimentation, flooding or other harm will result from the concentrated discharge.

- H. Where a development site is traversed by watercourses, drainage easements shall be provided conforming to the line of such watercourses. The terms of the easement shall prohibit excavation, the placing of fill or structures, and any alterations that may adversely affect the flow of stormwater within any portion of the easement. Also, maintaining of vegetation in a natural state within the easement shall be required, except as approved by the appropriate governing authority.
- I. When it can be shown that, due to topographic conditions, natural conveyance facilities on the site cannot adequately provide for drainage, open channels may be constructed conforming substantially to the line and grade of such natural drainageways. Work within natural conveyance facilities shall be subject to approval by DEP through the Joint Permit Application process, or, where deemed appropriate by DEP, through the General Permit process.
- J. Special requirements for areas falling within defined Exceptional Value and High Quality Sub watersheds: The temperature and quality of water and streams that have been declared as exceptional value and high quality is to be maintained as defined in Chapter 93, Water Quality Standards, Title 25 of Pennsylvania Code of Regulations. Temperature sensitive BMP's and stormwater conveyance systems are to be used and designed with storage pool areas and supply outflow channels and should be shaded with trees. This will require modification of berms for permanent ponds and the relaxation of restrictions on planting vegetation within the facilities, provided that capacity for volumes and rate control is maintained. At a minimum, the southern half on pond shorelines shall be planted with shade or canopy trees within ten (10) feet of the pond shoreline. In conjunction with this requirement, the maximum slope allowed on the berm area to be planted is 10 to 1. This will lessen the destabilization of berm soils due to root growth. A long term maintenance schedule and management plan for the thermal control BMP's is to be established and recorded for all development sites within defined Exceptional Value and/or High Quality Sub watersheds.

### **Section 308: Calculation Methodology**

- A. Stormwater runoff hydrographs/peak rates shall be calculated in the following manner:
  - 1. For the purpose of considering peak flows with a fully developed runoff hydrograph, the Soil Cover Complex Method-TR-20 or TR-55 and a 24 hour rainfall event shall be used with the appropriate design rainfall depths. A dynamic or interconnected model is required for modeling of multiple drainage or sub-areas. The SCS Rainfall Type II curve or local Precipitation Frequency Data shall be used for the rainfall distribution. The Borough may allow the use of other methodologies on a case by case basis as approved prior to design submittal.

2. Times-of-concentration shall be calculated using the methodology presented in Chapter 3 of Urban Hydrology for Small Watersheds, NRCS, TR-55 (as amended or replaced from time to time by NRCS).
3. The design storm volumes to be used in the analysis of peak rates of discharge shall be obtained from the Precipitation-Frequency Atlas of the United States, Atlas 14, Volume 2, Version 3.0, as amended and updated, U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydro meteorological Design Studies Center, Silver Spring, Maryland. NOAA's Atlas 14 can be accessed at: <http://hdsc.nws.noaa.gov/hdsc/pfds/>.
4. Runoff Curve Numbers (CN) for both existing and proposed conditions to be used in the Soil Cover Complex method shall be obtained from Appendix C Table 1 which is attached hereto and made a part of this Ordinance.
5. The design of any stormwater detention facilities intended to meet the performance standards of this Ordinance shall be verified by routing the design storm hydrograph through these facilities, using either manual methods or computerized routing. Routing shall be based upon the Modified Puls Method; other routing methodologies shall be subject to the approval of the Borough Engineer.

B. Conveyance Facilities shall be designed in the following manner:

1. All storm drain systems, streets, and inlets (excluding detention and retention basin outfall structures) shall be designed for a ten (10) year storm event. Sole access structures (culverts and bridges) shall be designed to convey the 25-year flood without overtopping the roadway.
  - a. When a pipe or culvert is intended to convey to or pass the discharge from a stormwater management facility, its required capacity shall be computed using the methodology considered for the stormwater management facility design as part of a dynamic model.
  - b. Greater design frequencies may be justified on individual projects.
  - c. A 100-year storm frequency may be required for design of the stormwater collection system to insure that the resultant stormwater runoff from the post-development storm is directed into the management facility.
  - d. If the Rational Method is used for calculating peak flows, conveyance facilities 30" diameter or less shall use a time of concentration of 5 minutes for the contributing drainage area shall be considered for the design.
2. In general, inlets shall be spaced such that, based upon the Rational Method,  $t_c = 5$  min. and ten (10) year rainfall intensity, the area contributing to the inlet shall not produce a peak runoff of greater than 4 cfs. Also, inlets shall be spaced so that their efficiency, based upon efficiency curves published by the Pennsylvania Department of

Transportation (PennDOT), is not less than 65%.

3. The Rational Method may be used for stormwater collection and conveyance facilities provided the facilities are part of an integrated SWM facility requiring modeling using SCS Modeling. Rainfall intensities shall be consistent with appropriate times-of-concentration and return periods.
4. Runoff Coefficients (C) for use with the Rational Method shall be obtained from Appendix C Table 2 which is attached hereto and made a part of this Ordinance.
5. Existing and proposed channels or swales must be able to convey the increased runoff associated with a proposed 100-year return period event within their banks at velocities consistent with protection of the channels from erosion. Acceptable velocities shall be based upon criteria included in the DEP *Erosion and Sediment Pollution Control Program Manual*.
6. Existing natural or man-made channels or swales must be able to convey proposed 100-year return period runoff without creating any hazard to persons or property.
7. Stormwater runoff on roadways (i.e. gutter spread, lane encroachment, etc.) shall be controlled in accordance with PennDOT Publications 13M, "Design Manual, Part 2" and 584, "Drainage Manual."
8. In all cases where drainage is picked up by means of a headwall, the pipe shall be designed as a culvert. Inlet and outlet conditions shall be analyzed. The minimum diameter of a culvert shall be 18 inches. The procedure contained in Hydraulic Engineer Circulars No. 5 and No. 13, as prepared by the U. S. Department of Transportation, Federal Highway Administration, Washington, D.C., shall be used for the design of culverts. All culverts shall include concrete headwalls and endwalls.

### **Section 309: Carbonate Geology**

In areas of carbonate geology, a geologist shall certify to the following:

- A. No stormwater management facility will be placed in, over, or immediately adjacent to the following features:
  1. Closer than 100 feet from sinkholes;
  2. Closer than 100 feet from closed depressions;
  3. Closer than 100 feet from caverns, intermittent lakes, or ephemeral streams;
  4. Closer than 50 feet from lineaments in carbonate areas;
  5. Closer than 50 feet from fracture traces; or
  6. Closer than 25 feet from bedrock pinnacles (surface or subsurface).
- B. Stormwater resulting from Regulated Activities shall not be discharged into sinkholes.

- C. If the developer can prove through analysis that the project site is an area underlain by carbonate geology, and such geologic conditions may result in sinkhole formations, then the project site is exempt from recharge requirements as described in Section 303, Volume Control. However, the project site shall still be required to meet all other standards found in this Ordinance.
- D. It shall be the developer's responsibility to verify if the project site is underlain by carbonate geology. The following note shall be attached to all stormwater management plans and signed and sealed by the developer's geologist: "I, \_\_\_\_\_, certify that the proposed stormwater management facility (circle one) is / is not underlain by carbonate geology."
- E. Whenever a stormwater management facility will be located in an area underlain by carbonate geology, a geological evaluation of the proposed location by a qualified licensed professional shall be conducted to determine susceptibility to sinkhole formation and the possibility of groundwater contamination from the facility.

### **Section 310: Riparian Buffers / Riparian Forest Buffers**

Where an applicant proposes to utilize riparian buffers as the means to meet the requirements of this Ordinance, said riparian buffers shall be established and /or maintained in accordance with the BMP Manual or the publication *Riparian Forest Buffer Guidance*, published November 2010 by DEP, and as may be amended or updated.

### **Section 311: Prohibited Discharges and Connections**

- A. Any drain or conveyance, whether on the surface or subsurface, that allows any non-stormwater discharge including sewage, process wastewater, and wash water to enter the waters of the Commonwealth is prohibited.
- B. No person shall allow, or cause to allow, discharges into surface waters of the Commonwealth which are not composed entirely of stormwater, except (1) as provided in Subsection C below and (2) discharges allowed under a state or federal permit.
- C. The following discharges are authorized unless they are determined to be significant contributors to pollution to the waters of the Commonwealth:

- Discharges from firefighting activities	- Flows from riparian habitats and wetlands
- Potable water sources including water line flushing	- Uncontaminated water from foundations or from footing drains
- Irrigation drainage	- Lawn watering
- Air conditioning condensate	- De-chlorinated swimming pool discharges
- Springs	- Uncontaminated groundwater
- Water from crawl space pumps	- Water from individual residential car washing
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material has been removed) and where detergents are not used	- Routine external building wash-down (which does not use detergents or other compounds)
- Diverted stream flows	- Water discharged in well testing for potable water supplies

D. In the event that the Borough or DEP determines that any of the discharges identified in Subsection C significantly contribute to pollution of the waters of the Commonwealth, The Borough or DEP will notify the responsible person(s) to cease the discharge.

**Section 312: Alteration of Stormwater BMPs**

No person shall modify, remove, fill, landscape, or alter any Stormwater BMPs, facilities, areas, or structures in a manner, without the written approval of the Borough, with the exception of necessary maintenance activities such as mowing.

## **ARTICLE IV – STORMWATER MANAGEMENT (SWM) SITE PLAN REQUIREMENTS**

### **Section 401: SWM Site Plan Submission**

- A. When a property owner or developer proposes a Regulated Activity, said property owner or developer shall submit a SWM Site Plan to demonstrate compliance with the stormwater management provisions of this Ordinance. Said submission shall be required by the Borough unless said Regulated Activity is exempted from SWM Site Plan submission in accordance with the exemption criteria and exemption approval process established in Section 302 of this Ordinance. Where the Borough determines that the property owner or developer proposing the Regulated Activity is eligible to employ the process established in the Simplified Approach (see Appendix D which is attached hereto and made a part of this Ordinance) to address the stormwater management needs of a site, the submission of the required documentation from said Manual shall substitute for the SWM Site Plan requirements of this Article.
- B. Copies of the SWM Site Plan shall be distributed as follows:
1. Two (2) copies to the Borough;
  2. One (1) copy to the Borough Engineer, when applicable;
  3. One (1) copy to the Adams County Conservation District (if an NPDES permit is required); and
  4. One (1) copy to the Adams County Office of Planning and Development (only if submitted as a component of a subdivision and land development plan in accordance with the Gettysburg Borough Subdivision and Land Development Ordinance).
- C. Additional copies shall be submitted as requested by the Borough.
- D. The property owner or developer shall submit a review fee in accordance with Article VI. Payment of the required fee shall be considered a component of the SWM Site Plan submission. The SWM Site Plan submission shall not be considered to be complete until such time that any required fee is paid.

### **Section 402: SWM Site Plan and Narrative Requirements**

- A. Site Plan Requirements:  
The SWM Site Plan shall include the following information. Where the Regulated Activity for which a SWM Site Plan is being submitted is also subject to subdivision and/or land development plan review in accordance with the Gettysburg Borough Subdivision and Land Development Ordinance, the SWM Site Plan shall be submitted as a component of the subdivision or land development plan submission for the project and shall include the following information. Where the submission requirements of this section conflict with the submission requirements of the Gettysburg Borough Subdivision and Land Development Ordinance, the submission requirements of this Ordinance shall control. The plan sheets shall be titled “Post Construction Stormwater Management or PCSM.”

1. The name of the development, the name and address of the owner of the property, and the name and address of the individual or firm preparing the SWM Site Plan. Also to be included are the name, address, signature and seal of any registered surveyor (attesting the accuracy of the boundary survey), professional engineer, landscape architect, or professional geologist (for geomorphological assessments) contributing to and/or responsible for any aspect of the SWM Site Plan.
2. The overall stormwater management concept for the project including any additional information required for a PCSM Plan as applicable (all items required per NPDES Permit Checklist).
3. A summary table listing existing and proposed discharge points' identification, acreage, storm event frequency, and runoff flows/discharges.
4. A determination of site conditions (existing and proposed) in accordance with the Site Assessment procedures outlined in Chapter 4 of the most current version of the Pennsylvania Stormwater Best Management Practices Manual. A site assessment shall be completed for projects proposed in areas of carbonate geology or karst topography.
5. Drainage area maps with outlines of existing and proposed drainage areas and subareas and the paths for calculating the times of concentration. Where offsite and/or site area outside of the Regulated Activity area flows are considered in calculations, drainage areas for conditions as described shall be denoted in a manner such that pre to post conditions for the Regulated Activity area (not including offsite and/or areas outside of the Regulated Activity area) may be compared.
6. For drainage models where multiple drainage areas or sub areas are considered, a dynamic or interconnected model shall be prepared.
7. A graphic and written plan scale of one (1) inch equals no more than fifty (50) feet. For parcels of twenty (20) acres or more, the scale shall be one (1) inch equals no more than one-hundred (100) feet.
8. North point (arrow).
9. Existing and proposed property boundaries. In the case of a land development plan on a large tract, the property boundary does not need to be shown in entirety at the full drawing scale. The entire tract is required to be shown in the site location map.
10. Project location map at a minimum of one (1) inch equals two-thousand (2,000) feet showing the project site property line, limits of development, streets, street names, and bodies of water within two-thousand (2,000) feet of the property boundary.
11. Existing and proposed land use within the parcel plus existing land use on the first twenty-five (25) feet of parcels surrounding the subject parcel.

12. The location of existing and proposed utilities, stormwater facilities, sanitary sewers, water lines, wells, on-lot wastewater facilities and all easements within the parcel plus the location of said features on the first twenty-five (25) feet of parcels surrounding the subject parcel.
13. Significant physical features and associated boundary limits, including flood hazard areas, sinkholes, existing drainage courses, and areas of natural vegetation.
14. Existing and proposed structures, buildings, streets, driveways, access drives, and parking areas.
15. The location of the parcel relative to streets, municipal boundaries, and other significant manmade features within twenty-five (25) feet of the parcel.
16. A determination of site conditions in accordance with the BMP Manual. A detailed site evaluation shall be completed for projects proposed in areas of carbonate geology or karst topography, as well as for other environmentally sensitive areas, whether natural or manmade, including floodplains, streams, lakes, ponds, hydric soils, wetlands, brownfields, and wellhead protection zones.
17. Stormwater runoff design computations and documentation as specified in this Ordinance, or as otherwise necessary, to demonstrate compliance with the requirements of this Ordinance.
18. A hydro geologic assessment of the effects of stormwater runoff on sinkholes, where present.
19. A description of permanent stormwater management techniques, including the construction specifications of the materials to be used for stormwater management facilities.
20. Plan and profile (horizontal and vertical as required) drawings of all Stormwater BMPs, including drainage structures, pipes, open channels, and swales, etc.
21. Proposed changes to the land surface and vegetative cover and the type and amount of existing and proposed impervious area. Provide a drawing legend of unidentified or existing and proposed features.
22. Existing and final contours at minimum intervals of two (2) feet. In areas of slopes in excess of fifteen percent (15%), five (5) foot contour intervals may be used.
23. Provide drainage flow pathways and defined drainage areas on the construction plan.
24. Clearly shown existing and proposed drainage patterns, existing and proposed elevation contours at intervals of at least one foot for plans at scale of one inch equal to 10 or 20 feet, at least two feet for all other scales. Where land is sloped more than 20%, contour intervals may be every five feet. Show spot elevations at high points

and low points and critical areas which cannot be interpolated between contours. Indicate the location and elevation of the benchmark. Provide the date the existing topography was surveyed and the method of survey (aerial or field).

25. A map showing all existing manmade features beyond the subject parcel's boundary lines that may be affected by the proposed Regulated Activities.
26. Expected project time schedule.
27. An E&S plan, where applicable, as approved by the Adams County Conservation District or DEP. Indicate limits of phases and include a narrative of the construction sequence.
28. An NPDES Permit application, including all PCSM Requirements, where applicable, as administratively reviewed and approved by the Adams County Conservation District.
29. Outline of soil type limits and list soil types as shown in the Soil Survey of Adams County. Provide a table listing the following information for the applicable on-site soil types:
  - (a) Soil map symbol (soil name abbreviation);
  - (b) Soil name, applicable building site restrictions (Soil Survey Table 7);
  - (c) Applicable sanitary facilities restrictions (Soil Survey Table 8);
  - (d) Applicable construction materials restrictions (Soil Survey Table 9);
  - (e) Applicable water management restrictions (Soil Survey Table 10); and
  - (f) Hydrologic Soil Group, flooding and high water table information (Soil Survey Table 15).
30. Construction details, sections, and specifications of facilities with sufficient information and dimensions so that they can be built to meet the requirements of this Chapter. Provide a note which states that the materials and details specified shall not be altered during construction without written approval by the municipality.
31. The SWM Site Plan shall include an O&M Plan for all existing and proposed physical stormwater management facilities.
32. Provisions for permanent access or maintenance easements for all physical Stormwater BMPs, as necessary to implement the O&M Plan.
33. A note on the SWM Site Plan indicating the location, and responsibility for maintenance of Stormwater BMPs and/or easements that would be located on adjoining properties as a result of proposed Regulated Activities.
34. The following signature block shall be provided:

“\_\_\_\_\_, on this date, has reviewed and hereby certifies that the SWM Site Plan meets all design standards and criteria of Borough of Gettysburg Ordinance No. \_\_\_.”

#### B. Design Narrative Content

1. The stormwater management design narrative shall contain the following: An introductory section describing the existing site and drainage area features, the existing points of discharge from the site, proposed site improvements, description of major drainage improvements and how they impact downstream areas. Identify any unusual existing conditions at the site that affect the existing stormwater drainage. Provide a statement of who visited the site and the date or dates of the site visit of both on-site and downstream facilities.
2. A summary table listing existing and proposed discharge points' identification, acreage, storm event frequency, and runoff flows/discharges.
3. Drainage area maps with outlines of existing and proposed drainage areas and subareas and the paths for calculating the times of concentration (alternate is to show this information in the plan).
4. Existing and proposed stormwater detailed calculations of runoff, facility designs, and erosion and sedimentation control designs. Hydrologic and hydraulic calculations of all existing and proposed infrastructure and improvements.
5. Areas which are subject to flooding shall have a floodplain study provided in the narrative which meets the requirements of § 402.B of this Ordinance and Chapter 8- Floodplains of the Gettysburg Borough Code of Ordinances.
6. The design narrative shall be signed and sealed by a registered professional engineer, a professional land surveyor, a landscape architect, or a professional geologist qualified to perform such duties.

#### **Section 403: SWM Site Plan Review and Approval Procedure**

- A. **Pre-Application Meeting:** Prior to proceeding with SWM Site Plan preparation and submission, the applicant is encouraged to request a pre-application meeting with the Borough to discuss the plan concept and responsibility for submission of required documents and information. If the project requires an E&S plan or an NPDES permit, the applicant is encouraged to meet with a staff member of the Adams County Conservation District as well.
- B. **SWM Site Plan Review and Approval Procedure:**
  1. If a SWM Site Plan is not submitted as a component of a subdivision and/or land development plan, the review of the SWM Site Plan, recommendations, approval, approval with conditions, or disapproval shall occur within forty-five (45) calendar days of submission to the Borough. Where the applicant submits revisions to a previously

submitted SWM Site Plan, either because the applicant has elected to revise the SWM Site Plan or as a result of a determination by the Borough that a revision is necessary to meet the requirements of this Ordinance, this forty-five (45) day period shall be restarted. Should Gettysburg Borough fail to render a decision on the SWM Site Plan within this forty-five (45) day time period, the application shall be deemed approved. The review process shall include the following components.

- a. Upon receipt, the official accepting the SWM Site Plan shall forward a copy of the Plan to the entities referenced in Section 401.B. The official accepting the SWM Site Plan shall also cause the application to be included on the agenda for the next available meeting of the Planning Commission.
  - b. The Borough Engineer shall review the SWM Site Plan for compliance with the requirements of this Ordinance and shall communicate his review to the Planning Commission.
  - c. The Planning Commission shall consider the SWM Site Plan and the Borough Engineer's review. Following review of this information, the Planning Commission shall approve, approve with conditions, or disapprove the SWM Site Plan.
  - d. Decision Notification Procedure: In all cases, the decision of the Planning Commission to approve, approve with conditions, or disapprove the SWM Site Plan shall be in writing and shall be delivered to the applicant no later than fifteen (15) days following the decision. If the SWM Site Plan is disapproved, the written decision of the Planning Commission shall specify the defects in the application, describe the requirements which were not met, and shall cite the provisions of the ordinance relied upon. If the SWM Site Plan is approved with conditions, the notification to the applicant shall state the acceptable conditions for approval and the timeline limit for satisfying such conditions.
2. If a SWM Site Plan is submitted as a component of a subdivision and/or land development plan, the SWM Site Plan shall be reviewed in accordance with the review process and time frame established in the Gettysburg Borough Subdivision and Land Development Ordinance and in accordance with Section 508 of the Pennsylvania Municipalities Planning Code.
  3. NPDES Permit Technical Coordination: Where the project for which a SWM Site Plan is submitted is subject to NPDES permitting, the Borough shall notify the Adams County Conservation District when the applicant has achieved technical compliance with the requirements of this Ordinance. The Borough may address this requirement through the completion of the Technical Review Checklist for NPDES Sites or comparable process as determined by the Borough. Upon receipt of this notification, the Adams County Conservation District will acknowledge a General NPDES permit. In the case of an Individual NPDES permit, the Adams County Conservation District will coordinate municipal reviews with the DEP Regional Office.

4. NPDES Permits and E&S Plans: Where the project for which a SWM Site Plan is submitted is subject to NPDES permitting or the submission of an E&S Plan, or both, any final approval of the SWM Site Plan by the Borough shall be conditioned on the applicant's receipt of the required NPDES Permit or E&S Plan approval, as appropriate.
5. Decision Notification Procedure: In all cases, the decision of the Planning Commission to approve, approve with conditions, or disapprove the SWM Site Plan shall be in writing and shall be delivered to the applicant no later than fifteen (15) calendar days following the decision. If the SWM Site Plan is disapproved, the written decision of the Planning Commission shall specify the defects in the application, describe the requirements which were not met, and shall cite the provisions of the ordinance relied upon. If the SWM Site Plan is approved with conditions, the notification to the applicant shall state the acceptable conditions for approval and the time limit for satisfying such conditions. Should the Borough fail to notify the applicant of the decision within this fifteen (15) calendar day period, the application shall be deemed approved.

C. Waiver Requests:

1. If a SWM Site Plan is not submitted as a component of a subdivision and/or land development plan, the Borough may accept a request for waiver of one or more of the requirements of this Ordinance. Any such waiver requests shall comply with the following requirements.
  - a. The Borough may accept a request for waiver of the requirements of one or more provisions of this Ordinance if the literal enforcement will enact undue hardship because of peculiar conditions pertaining to the land in question, provided that the Planning Commission determines that such waiver will not be contrary to the public interest and that the purpose and intent of the ordinance is observed.
  - b. All requests for waivers from an applicant shall be in writing and shall accompany and be a part of the application for approval of a SWM Site Plan. The request shall state in full the grounds and facts of unreasonableness or hardship on which the request is based, the provision or provisions of the ordinance involved, and the minimum waiver necessary to afford relief.
  - c. The Planning Commission shall act to accept or reject requests for waivers within the context of its SWM Site Plan decision-making process established in Section 403.B.1 of this Ordinance. The decision of the Planning Commission regarding acceptance of each request for waiver shall be incorporated into the written decision of the Planning Commission for the overall SWM Site Plan as required in Section 403.B.3 of this Ordinance. The Borough shall keep a written record of all action on requests for waivers.
2. If a SWM Site Plan is submitted as a component of a subdivision and land development plan, requests for waiver to obtain relief from one or more of the requirements of this Ordinance shall be handled in accordance with the modification process established in the

Gettysburg Borough Subdivision and Land Development Ordinance and Section 512.1 of the Pennsylvania Municipalities Planning Code.

3. The final decision to approve or disapprove all accepted requests for waiver shall be made in accordance with Section 301.K.

#### **Section 404: Revision of SWM Site Plans**

- A. SWM Site Plan not submitted as a Component of a Subdivision and/or Land Development Plan: Revisions to a previously approved SWM Site Plan to incorporate a change in Stormwater BMPs or techniques, or the relocation or redesign of Stormwater BMPs, or different information about soil or other conditions from what was stated in the SWM Site Plan, shall be submitted by the applicant to the Borough. The Borough, at its sole discretion may require a re-submission of the revised SWM Site Plan in accordance with this Ordinance, including applicable review fee. For NPDES permitted sites, any revised SWM Site Plan shall be re-submitted to the Adams County Conservation District for its review. In the case of a SWM Site Plan which contains minor deficiencies (such as a missing label, omission of a required note or minor construction detail), the Borough may, at its sole discretion, accept a re-submission of such SWM Site Plan without the requirement of a full review fee, or a lesser fee, as determined by the Borough.
- B. SWM Site Plan submitted as a Component of a Subdivision and/or Land Development Plan: A revision of an SWM Site Plan approved as a component of a subdivision and/or land development plan shall be treated as a revision of the subdivision and/or land development plan and shall be subject to the review process established in the Gettysburg Borough Subdivision and Land Development Ordinance.

#### **Section 405: Re-submission of Disapproved SWM Site Plans**

- A. SWM Site Plan not Submitted as a Component of a Subdivision and/or Land Development Plan. A previously disapproved SWM Site Plan may be resubmitted with the revisions addressing the defects of the original submission as listed in the Planning Commission's Decision Notification provided in accordance with Section 403.B.1.e. The re-submitted SWM Site Plan shall be reviewed and acted upon in accordance with Section 403.B.1 of this Ordinance. The applicable review fee must accompany the submission of a revised SWM Site Plan, unless such fee is waived by the Borough.
- B. SWM Site Plan Submitted as a Component of a Subdivision and/or Land Development Plan: The resubmission of the SWM Site Plan originally submitted as a component of a subdivision and/or land development plan shall be treated as resubmission of said subdivision and/or land development plan and shall be subject to the review process established in the Gettysburg Borough Subdivision and Land Development Ordinance.

#### **Section 406: Authorization to Construct and Term of Validity**

- A. SWM Site Plans not Submitted as a Component of a Subdivision and/or Land Development Plan: The Planning Commission approval of a SWM Site Plan, when such Plan is not submitted as a component of a subdivision and/or land development plan, authorizes the Regulated

Activities contained in the SWM Site Plan for a maximum term of validity of five (5) years following the date of approval. The Planning Commission may specify a term of validity shorter than five (5) years in the Decision Notification for any specific SWM Site Plan, particularly if the nature of the proposed SWM facilities requires more frequent maintenance and/or short-term replacement of certain components. Terms of validity shall commence on the date the Borough signs the Decision Notification for an SWM Site Plan. If an approved SWM Site Plan is not completed according to Section 407 within the term of validity, and if a request to extend the permit has not been submitted to the Borough by the applicant, the permit terminates and the Borough may revoke any and all permits applicable to the project. SWM Site Plans for projects with expired permits may be resubmitted in accordance with Section 405 of this Ordinance.

- B. SWM Site Plans Submitted as a Component of a Subdivision and/or Land Development Plan: The Planning Commission approval of a SWM Site Plan submitted as a component of a subdivision and/or land development plan is subject to the term of validity as specified in the Gettysburg Borough Subdivision and Land Development Ordinance.

#### **Section 407: Final Inspection, Completion Certificate, and As-Built Plans**

- A. The stormwater management facilities constructed in accordance with a SWM Site Plan not submitted as a component of a subdivision and/or land development plan shall be subject to the following process upon the completion of construction of said facilities.
1. The Borough may, at its discretion, inspect stormwater management facilities that do not require an NPDES Permit at any time during the construction process to ensure compliance with the approved SWM Site Plan.
  2. The property owner or developer shall contact the Borough within seven (7) days of the completion of the construction process to schedule a final inspection. The Final Inspection shall be conducted by the Borough Engineers and/or other official as designated by the Borough Council.
  3. The Borough may inspect the completed improvements to confirm consistency with the approved SWM Site Plan. Following the inspection, the Borough may take one of the following two actions.
    - a. Issue a Completion Certificate: A Completion Certificate may be issued when the Borough determines that the stormwater management facilities have been constructed in conformance with the approved SWM Site Plan.
    - b. Issue Correspondence Regarding Discrepancies: If the Borough determines that the stormwater management facilities have not been constructed in accordance with the approved SWM Site Plan, the Borough shall issue correspondence addressed to the property owner or developer summarizing the discrepancies from the approved SWM Site Plan. Such correspondence does not by itself constitute an extension of any applicable SWM Permit.

4. Upon receipt of correspondence summarizing discrepancies in the constructed stormwater facilities, the property owner or developer shall apply for permit extensions when necessary, and take one of the following two actions.
    - a. Reconstruct the required stormwater management facilities in a manner that complies with the approved SWM Site Plan. Upon completion of the reconstruction work, the property owner or developer shall contact the Borough for a subsequent Final Inspection in accordance with the process established in Section 407.A.2 of this Ordinance.
    - b. Submit a revised SWM Site Plan in accordance with the process established in Section 404.A. The revised SWM Site Plan shall be consistent with the improvements as constructed. Upon receipt, the Planning Commission may review the revised SWM Site Plan in accordance with the review and approval process of Section 403. If the revised SWM Site Plan is approved, the Borough shall issue the Completion Certificate. If the revised SWM Site Plan fails to demonstrate that the constructed stormwater management facilities can comply with the requirements of this Ordinance, the Borough may then require the property owner or developer to reconstruct the required stormwater facilities in accordance with the originally approved SWM Site Plan.
  5. Within fifteen (15) days of the Completion Certificate, the property owner or developer shall submit to the Borough, an As-Built Plan depicting the stormwater management facilities as constructed. If requested by the applicant, the Borough may grant an extension of the deadline to submit As-Built Plans.
- B. The stormwater management facilities constructed in accordance with a SWM Site Plan submitted as a component of a subdivision and/or land development plan shall be subject to the completion of improvements requirements of the Gettysburg Borough Subdivision and Land Development Ordinance and Sections 509 through 511 of the Pennsylvania Municipalities Planning Code.

## **ARTICLE V – OWNERSHIP, OPERATION AND MAINTENANCE**

### **Section 501: Determination of Ownership and Maintenance Responsibility**

- A. The Planning Commission shall make the final determination on the ownership and maintenance responsibilities of required Stormwater BMPs prior to final approval of the SWM Site Plan. The Planning Commission may require a dedication of such facilities as part of the requirements for approval of the SWM Site Plan. The Borough shall not be obligated to accept the facilities if offered for dedication. The Borough Council reserves the right to accept or reject the ownership, maintenance, and operating responsibility for any portion of the stormwater management facilities and controls.
- B. If the Borough accepts dedication of any or all stormwater management facilities associated with a project, the Borough shall operate and maintain said facilities in accordance with the approved O&M Plan.
- C. If the Borough Council does not accept dedication of some or all of the stormwater management facilities associated with a project, the property owner shall sign an O&M Agreement in accordance with Section 503 of this Ordinance to ensure that the property owner will maintain the Stormwater BMPs in accordance with the approved O&M Plan. The Planning Commission shall not approve the SWM Site Plan before the owner signs the O&M Agreement.

### **Section 502: Operation and Maintenance Plan:**

An Operation and Maintenance (O&M) Plan shall be included as a component of all SWM Site Plan submissions and shall include the following.

- A. Long-term ownership responsibilities.
- B. Continuing maintenance responsibilities, including schedules and estimated costs for maintenance activities. This component shall include all information necessary to ensure that the Stormwater BMPs will continually operate within the design parameters of the given facility.
- C. Continuing inspection responsibilities, including schedules for property owner inspection consistent with the standards of Section 702 of this Ordinance.

### **Section 503: Operation and Maintenance Agreements**

- A. Prior to final approval of the SWM Site Plan, the property owner shall sign and record an O&M Agreement binding the property owner to conduct all maintenance and inspection activities identified in the approved O&M Plan for proposed Stormwater BMPs.
  - 1. The property owner, heirs, successors and assigns shall maintain all facilities in accordance with the approved maintenance schedule in the O&M Plan.
  - 2. The property owner shall provide to the Borough easements to ensure access for periodic inspections and maintenance by the Borough, as necessary.

3. The property owner shall keep on file with the Borough the name, address, and telephone number of the person or company responsible for maintenance activities. In the event of a change, new information shall be submitted by the property owner to the Borough within ten (10) working days of the change.
  4. The O&M Agreement shall be recorded with the Adams County Recorder of Deeds.
- B. The owner is responsible for operation and maintenance of the Stormwater BMPs. If the owner fails to adhere to the O&M Agreement or the O&M Plan, the Borough may perform the services required and charge the owner appropriate fees. Nonpayment of fees, costs and other expenses incurred in the performance of services required may result in a municipal lien against the property.

**Section 504: Performance Guarantee**

For SWM Site Plans submitted as a component of a subdivision and/or land development plan, the property owner or developer shall provide a financial guarantee to the Borough for the timely installation and proper construction of all stormwater management controls as required by the approved SWM Site Plan and this Ordinance in accordance with the completion of improvements requirements of the Gettysburg Borough Subdivision and Land Development Ordinance and the provisions of Sections 509 through 511 of the Pennsylvania Municipalities Planning Code.

## **ARTICLE VI - FEES AND EXPENSES**

### **Section 601: General**

- A. The Borough Council shall, by resolution, establish a fee schedule to defray costs incurred by the Borough associated with the administration and enforcement of this Ordinance.
- B. The applicant shall be responsible for the payment of all fees, costs, and other expenses incurred in the submission, review, and decision on SWM Site Plans and/or other submissions pursuant to this Ordinance.

### **Section 602: Expenses Covered by Fees**

The fee(s) may include, but are not limited to, costs for the following:

- A. Administrative, clerical, and legal costs.
- B. Review of the SWM Site Plan and reports by the Borough and by officials of the Borough.
- C. Attendance at meetings by the Borough Engineer and by officials of the Borough, as may be necessary.
- D. Various inspections (such as during construction and after construction) by the Borough, the Borough Engineer or by officials of the Borough.
- E. Any additional work required to enforce any provision (s) regulated by this Ordinance, correct violations, and ensure proper completion of stipulated remedial actions.

## **ARTICLE VII - ENFORCEMENT AND PENALTIES**

### **Section 701: Municipal Inspection**

- A. Upon presentation of proper credentials, Borough officials or its designees may enter at reasonable times upon any property within the Borough to inspect the condition of the stormwater structures and facilities in regard to any aspect regulated by this Ordinance.
- B. Inspections regarding compliance with the SWM Site Plan may be conducted by the Borough at any time when there may be a question of compliance with the approved SWM Site Plan, the approved O&M Plan, or when any condition exists that may threaten public health, safety, or welfare.

### **Section 702: Landowner Inspection**

- A. Stormwater BMPs shall be inspected by the landowner, or landowner's designee (which shall include the Borough where such facilities have been dedicated to the Borough), according to the following list of minimum frequencies:
  - 1. Annually for the first five (5) years;
  - 2. Once every three (3) years thereafter;
  - 3. During or immediately after the cessation of a ten (10)-year or greater storm, i.e., a storm of an estimated frequency of recurrence of ten (10) years or greater interval of time; and
  - 4. At any other interval as may be specified in the approved O&M Agreement.
- B. Following inspection of Stormwater BMPs by the landowner or landowner's designee, said landowner or landowner's designee shall report the findings of the inspection in writing to the Borough. Such report shall be provided on forms provided by the Borough.
- C. Following receipt of required inspection reports, the Borough reserves the right to confirm the findings of any inspection if reasonable cause exists to suggest that the inspection did not uncover potential problems with the Stormwater BMP. The Borough may conduct a subsequent inspection of the facilities to address such concern. If the Borough's inspection uncovers problems with the Stormwater BMPs on site that result in the site no longer being consistent with the approved SWM Site Plan for the site, the Borough, may initiate corrective actions in accordance with the enforcement processes enabled in this Ordinance.

**Section 703: Suspension or Revocation of SWM Site Plan Approval**

- A. Any SWM Site Plan approval issued by the Borough pursuant to this Ordinance may be suspended or revoked for any of the following reasons:
  - 1. Non-compliance with or failure to implement any provision of the approved SWM Site Plan or O&M Plan;
  - 2. A violation of any provision of this Ordinance or any other applicable law, ordinance, rule, or regulation relating to the Regulated Activity; or
  - 3. The creation of any condition or the conduct of any Regulated Activity which constitutes or creates a hazard, nuisance, pollution, or endangers life or property.
- B. A suspended SWM Site Plan approval may be reinstated by the Borough when the following conditions are met:
  - 1. Borough officials or its designee(s) have inspected and approved the corrections to the violations that caused the suspension; and
  - 2. The Borough is satisfied that the violation has been corrected.
- C. A SWM Site Plan approval that has been revoked by the Borough shall not be reinstated. The applicant may apply for a new SWM Site Plan approval under the provisions of this Ordinance.
- D. If a violation causes no immediate danger to life, public health, or property, the Borough may, at its sole discretion, provide a limited time period for the owner to correct the violation. In these cases, the Borough will provide the owner, or the owner's designee, with a written notice of the violation and the time period allowed for the owner to correct the violation. If the owner does not correct the violation within the allowed time period, the Borough may revoke or suspend any, or all, applicable approvals and permits pertaining to any provision of this Ordinance.

**Section 704: Enforcement**

The Borough may institute injunctive, mandamus, or any other appropriate action or proceeding at law or in equity for the enforcement of this Ordinance when the Borough determines that a property owner or developer has initiated a Regulated Activity without receiving SWM Site Plan approval, that a property owner or developer has failed to comply with an approved SWM Site Plan or approved O&M Plan, or that a property owner or developer has violated any other provision of this Ordinance. Any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, mandamus or other appropriate forms of remedy or relief.

**Section 705: Penalties**

- A. Any person violating the provisions of this Ordinance shall be guilty of a summary offense, and upon conviction, shall be subject to a fine of not more than **\$1,000.00** for each violation,

recoverable with costs. Each day that the violation continues shall be a separate offense and penalties shall be cumulative.

- B. In addition, the Borough may institute injunctive, mandamus, or any other appropriate action or proceeding at law or in equity for the enforcement of this Ordinance. Any court of competent jurisdiction shall have the right to issue restraining orders, temporary or permanent injunctions, mandamus, or other appropriate forms of remedy or relief.

**Section 706: Appeals**

- A. Any person aggrieved by any action of the Borough or its designee, relevant to the enforcement of the provisions of this Ordinance, may appeal said action to the Code Enforcement Appeals Board within thirty (30) days of that action.
- B. Any person aggrieved by any decision of the Code Enforcement Appeals Board regarding the appeal of any action of the Borough or its designee, may appeal the decision to the Adams County Court of Common Pleas within thirty (30) days of the decision of the Code Enforcement Appeals Board.

**ARTICLE VIII: ENACTMENT**

The Gettysburg Borough Stormwater Management Ordinance shall be effective upon enactment.

**ENACTED, ADOPTED AND ORDAINED** this 13<sup>th</sup> day of November, 2012.

**BOROUGH OF GETTYSBURG**

By: Michael J. Birkner  
Michael J. Birkner  
President of Borough Council

ATTEST:

By: Sara L. Stull  
Sara L. Stull, Secretary

**APPROVED** this 13<sup>th</sup> day of November, 2012.

By: William E. Troxell  
William E. Troxell, Mayor

**APPENDIX A**

**OPERATION AND MAINTENANCE (O&M) AGREEMENT FOR STORMWATER  
MANAGEMENT PRACTICES**

**OPERATION AND MAINTENANCE (O&M) AGREEMENT**  
**STORMWATER MANAGEMENT PRACTICES**

**THIS AGREEMENT**, made and entered into this \_\_\_\_ day of \_\_\_\_\_,  
20\_\_\_\_, by and between \_\_\_\_\_,  
(hereinafter the "Landowner"), and Borough of Gettysburg, Adams County, Pennsylvania, (hereinafter  
the "Borough");

**WITNESSETH**

**WHEREAS**, the Landowner is the legal or equitable owner of certain real property as recorded by deed  
in the Office of the Recorder of Deeds of Adams County, Pennsylvania, Record Book \_\_\_\_\_ at page  
\_\_\_\_\_, (hereinafter "Property").

**WHEREAS**, the Landowner is proceeding to build and develop the Property; and

**WHEREAS**, the Operation and Maintenance Plan (O&M Plan) approved by the Borough for the  
property identified herein, which is attached hereto as Appendix A and made part hereof, as approved by  
the Borough, provides for management of stormwater within the confines of the Property through the  
use of Stormwater Management Best Management Practices (Stormwater BMPs); and

**WHEREAS**, the Borough, and the Landowner, his, her or its successors and assigns, agree that the  
health, safety, and welfare of the residents of the Borough and the protection and maintenance of water  
quality require that on-site Stormwater BMPs be constructed and maintained on the Property; and

**WHEREAS**, the Borough requires, through the implementation of the approved Stormwater  
Management Site Plan (SWM Site Plan), that Stormwater BMPs as required by said SWM Site Plan and  
the Gettysburg Borough Stormwater Management Ordinance be constructed and adequately operated  
and maintained by the Landowner, successors, and assigns.

**NOW, THEREFORE**, in consideration of the foregoing promises, the mutual covenants contained  
herein, and the following terms and conditions, the parties hereto intending to be legally bound thereby  
agree as follows:

1. The Landowner shall construct, or cause the construction of, the Stormwater BMPs in  
accordance with the plans and specifications identified in the SWM Site Plan.
2. The Landowner shall operate and maintain the Stormwater BMPs as shown on the SWM Site  
Plan in good working order in accordance with the specific operation and maintenance  
requirements noted on the approved O&M Plan.
3. The Landowner hereby grants permission to the Borough, its authorized agents and employees,  
to enter upon the property, at reasonable times and upon presentation of proper credentials, to

inspect the Stormwater BMPs whenever the Borough deems it appropriate. Whenever possible, the Borough shall notify the Landowner prior to entering the property.

4. In the event the Landowner fails to operate and maintain the Stormwater BMPs as provided in the O&M Plan, the Borough or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain said BMPs. It is expressly understood and agreed that the Borough is under no obligation to maintain or repair said facilities, and in no event shall this Agreement be construed to impose any such obligation on the Borough.
5. In the event that the Borough, pursuant to this Agreement, performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like, the Landowner shall reimburse the Borough for all expenses (direct and indirect) incurred within ten (10) days of receipt of invoice from the Borough.
6. The intent and purpose of this Agreement is to ensure the proper maintenance of the onsite Stormwater BMPs by the Landowner; provided, however, that this Agreement shall not be deemed to create or affect any additional liability of any party for damage alleged to result from or be caused by stormwater runoff.
7. The Landowner, his, her or its executors, administrators, assigns, and other successors in interests, shall release the Borough from all damages, accidents, casualties, occurrences, or claims which might arise or be asserted against said employees and representatives from the construction, presence, existence, or maintenance of the Stormwater BMPs by the Landowner or the Borough.
8. The Borough intends to inspect the Stormwater BMPs at a minimum of once every three (3) years to ensure their continued functioning.

This Agreement shall be recorded at the Office of the Recorder of Deeds of Adams County, Pennsylvania, and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, his, her or its administrators, executors, assigns, heirs, and any other successors in interests, in perpetuity.

**IN WITNESS WHEREOF**, the parties have executed this Agreement on the day and year first above written.

**LANDOWNER:**

By: \_\_\_\_\_

**ATTEST:**

\_\_\_\_\_  
, Secretary

**BOROUGH:**

**BOROUGH OF GETTYSBURG**

By: \_\_\_\_\_  
, President

**ATTEST:**

\_\_\_\_\_  
, Borough Secretary

COMMONWEALTH OF PENNSYLVANIA

: SS

COUNTY OF \_\_\_\_\_

On this, the \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned officer, personally appeared \_\_\_\_\_, who acknowledged [himself] [herself] to be the \_\_\_\_\_ of \_\_\_\_\_ and that [he] [she] executed the within Agreement on behalf of \_\_\_\_\_ by signing [his] [her] name as such \_\_\_\_\_.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

\_\_\_\_\_

My commission expires:

COMMONWEALTH OF PENNSYLVANIA

: SS

COUNTY OF ADAMS

On this, the \_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, the undersigned officer, personally appeared \_\_\_\_\_, who acknowledged [himself] [herself] to be the President of Borough Council of the Borough of Gettysburg and that [he] [she] executed the within Agreement on behalf of the Borough of Gettysburg by signing [his] [her] name as such President of Borough Council.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

\_\_\_\_\_

My commission expires:

**APPENDIX B**

**NOXIOUS AND INVASIVE PLANT CONTROL**

## **NOXIOUS AND INVASIVE PLANT CONTROL**

A list of noxious and invasive plants in Pennsylvania may be found in several locations:

### **The Pennsylvania Code**

7 Pa. Code § 110. Noxious Weeds

§110.1. Noxious weed control list.

Under section 3(b) of the Noxious Weed Control Law (3 P.S. § 255.3(b)), the Noxious Weed Control Committee establishes the following noxious weed control list:

- (1) *Cannabis sativa*, commonly known as marijuana.
- (2) The *Lythrum salicaria* Complex: Any nonnative *Lythrum* including, *Lythrum salicaria* and *Lythrum virgatum*, their cultivars and any combination thereof.
- (3) *Cirsium arvense*, commonly known as Canadian thistle.
- (4) *Rosa multiflora*, commonly known as multiflora rose.
- (5) *Sorghum halepense*, commonly known as Johnson grass.
- (6) *Carduus nutans*, commonly known as musk thistle.
- (7) *Cirsium vulgare*, commonly known as bull thistle.
- (8) *Datura stramonium*, commonly known as jimson weed.
- (9) *Polygonum perfoliatum*, commonly known as mile-a-minute.
- (10) *Puerria lobata*, commonly known as kudzu vine.
- (11) *Sorghum bicolor* cv. *drummondii*, commonly known as shattercane.
- (12) *Heracleum mantegazzianum*, commonly known as Giant Hogweed.
- (13) *Galega officinalis*, commonly known as Goatsrue.

### **Pennsylvania Department of Conservation and Natural Resources (DCNR)**

The PA Department of Conservation and Natural Resources (DCNR) lists Invasive Exotic Plants in Pennsylvania on their website:

<http://www.dcnr.state.pa.us/forestry/invasivetutorial/List.htm>

A copy of the (DCNR) publication “Invasive Plants in Pennsylvania” (rev. 2006) may be found on their web site:

[www.dncr.state.pa.us](http://www.dncr.state.pa.us)

A listing of plants is included on the following page.

# Invasive Plants in Pennsylvania

SCIENTIFIC NAME      COMMON NAME      PLANT FORM      NOTES

The species below are serious threats to our native ecosystems. Many have been designated as "Noxious Weeds" by the PA Department of Agriculture and are also a major concern to our agricultural community.

<i>Aegopodium podagraria</i>	Goutweed	Flower	Commonly planted in the past and escaped; spreads aggressively by roots
<i>Alliaria petiolata</i>	Garlic mustard	Flower	Invasive in many states; spreading aggressively in woodlands by seed
<i>Carduus nutans</i>	Musk thistle	Flower	PA Noxious Weed
<i>Cirsium arvense</i>	Canada thistle	Flower	PA Noxious Weed
<i>Cirsium vulgare</i>	Bull thistle	Flower	PA Noxious Weed
<i>Datura stramonium</i>	Jimsonweed	Flower	Sometimes cultivated; spreads by seed; PA Noxious Weed
<i>Gallega officinalis</i>	Goatsue	Flower	PA and Federal Noxious Weed
<i>Heracleum mantegazzianum</i>	Giant hogweed	Flower	PA and Federal Noxious Weed; sap can cause burning blisters
<i>Hebefera matronalis</i>	Dama's rocket	Flower	Planted in gardens; escaped and naturalized along roads; spreads by seed
<i>Lythrum salicaria</i> L. <i>virgatum</i>	Purple loosestrife	Flower	Garden escape which has become invasive in many states; PA Noxious weed
<i>Myriophyllum spicatum</i>	Eurasian water milfoil	Flower	Invasive in many states; aquatic
<i>Ornithogalum nutans</i> , <i>umbellatum</i>	Star-of-Bethlehem	Flower	Common garden plant which has widely escaped
<i>Pastinaca sativa</i>	Wild parsnip	Flower	Found commonly along roadsides; widespread and abundant; spread by seed
<i>Perilla frutescens</i>	Beefsteak plant	Flower	Garden escape; widespread mostly along roadsides; spreads by seed
<i>Polygonum (Fallopia) cuspidatum</i>	Japanese knotweed	Flower	Invasive in many states; difficult to control; spreads by roots and seeds
<i>Ranunculus ficaria</i>	Lesser celandine	Flower	Spreads by roots and shoots; can be very aggressive in wetlands
<i>Taraxacum officinale</i>	Water chestnut	Flower	Wetland plant; should not be introduced as it will escape, spread, and naturalize
<i>Bromus tectorum</i>	Cheese grass	Grass	Annual grass; very invasive throughout the west; spreads by seed
<i>Microstachium vimineum</i>	Japanese stinkgrass	Grass	Annual grass; invasive in many states; spreading through woodlands by seed
<i>Miscanthus sinensis</i>	Miscanthus grass	Grass	Commonly planted ornamental grass which can escape and spread by seed
<i>Chalchals aluminosa</i>	Red canary grass	Grass	Aggressive wetland grass; native and introduced strains; widespread and abundant
<i>Phalaris australis</i>	Common reed	Grass	Native and introduced strains; wetland grass which can form huge colonies
<i>Sagittaria arifolia</i>	Sagittaria	Grass	Grass; PA Noxious weed
<i>Sagittaria arifolia</i>	Johnson grass	Grass	Grass; PA Noxious weed; spreads by roots and seeds
<i>Berberis thunbergii</i>	Japanese barberry	Shrub	Escaped from cultivation and invasive in many states; spread by birds
<i>Berberis vulgaris</i>	European barberry	Shrub	Escaped from cultivation; spread by birds
<i>Elaeagnus argentea</i>	Russian olive	Shrub	Escaped from plantings and invasive in many states; spread by birds
<i>Elaeagnus umbellata</i>	Autumn olive	Shrub	Escaped from plantings and invasive in many states; rapidly spread by birds
<i>Eurostium sp.</i>	Winged Elymus	Shrub	Escaped from plantings; invasive in Pennsylvania
<i>Ligustrum obtusifolium</i>	Boxwood	Shrub	Escaped from cultivation; seeds spread by birds
<i>Ligustrum vulgare</i>	Common privet	Shrub	Planted very commonly in the past and escaped; invasive in many states
<i>Lonicera maackii</i>	Amur honeysuckle	Shrub	Escaped from plantings; seeds spread by birds
<i>Lonicera moroni</i>	Moroni's honeysuckle	Shrub	Escaped from plantings and invasive in many states; seeds spread by birds
<i>Lonicera moroni</i> x <i>tatarica</i>	Bells honeysuckle	Shrub	Escaped from cultivation
<i>Lonicera standishi</i>	Standishi honeysuckle	Shrub	Escaped from plantings; seeds spread by birds
<i>Lonicera tatarica</i>	Tartarian honeysuckle	Shrub	Escaped from plantings; seeds spread by birds
<i>Rhamnus cathartica</i>	Common buckthorn	Shrub	Becoming a problem in PA
<i>Rhamnus frangula</i>	Glossy buckthorn	Shrub	Becoming a problem in PA
<i>Rosa multiflora</i>	Multiflora rose	Shrub	Invasive in many states; seeds spread by birds; PA Noxious weed
<i>Rubus procerus</i>	Wineberry	Shrub	Common; rampant; not cultivated; spreads by seed
<i>Spiraea japonica</i>	Japanese spiraea	Shrub	Frequently planted; escaped in some areas
<i>Viburnum opulus</i> var. <i>opulus</i>	Guaider rose	Shrub	Resembles native <i>Viburnum trilobum</i> which it replaces; both are cultivated and planted
<i>Acer platanoides</i>	Norway maple	Tree	Commonly planted and escaped; invasive in many states; wind spreads prolific seeds
<i>Acer pseudoplatanus</i>	Sycamore maple	Tree	Escaped from cultivation; wind spreads prolific seeds
<i>Ailanthus altissima</i>	Tree-of-heaven	Tree	Invasive in many states; wind spreads prolific seeds
<i>Paulownia tomentosa</i>	Empress tree	Tree	Prolific seeds fall to start new seedlings
<i>Prunus cadyana</i>	Cady pear	Tree	Commonly planted street tree; becoming a problem as an escape
<i>Ulmus pumila</i>	Siberian elm	Tree	Escaped from cultivation
<i>Akopia quinata</i>	Five leaf plumb	Vine	Escaped from cultivation and becoming a major problem in the Philadelphia area
<i>Ampelopsis brevipedunculata</i>	Porcelain berry	Vine	Escaped from cultivation; spread by birds
<i>Celastrus orbiculatus</i>	Oriental bittersweet	Vine	Escaped from cultivation and invasive in many states; spreading rapidly (by birds)
<i>Lonicera japonica</i>	Japanese honeysuckle	Vine	Invasive in many states
<i>Polygonum persicatum</i>	Miscanthus vine	Vine	Range expanding; PA Noxious weed
<i>Pueraria lobata</i>	Kudzu	Vine	Invasive in many states; PA Noxious weed

This list of invasive species is not meant to be definitive, but rather a guideline to some of the most troublesome species that degrade native plant communities in Pennsylvania. These species were chosen from a more extensive list compiled from adjacent state or regional lists of invasive plant species. Input was sought from experienced individuals familiar with Pennsylvania's flora from a field perspective. For a more extensive list of invasive species, please contact DCMR, Bureau of Forestry, P.O. Box 8552, Harrisburg, PA 17105-8552.

**SITUATIONAL INVASIVES:** Some plants become problematic invasive species to a given area. For example, some species are commonly planted for quick groundcover but can be a serious problem when planted, seeded or discarded near native herbaceous communities. These situational invasives require greater care and monitoring when planted near native plant communities. These species include: *Crown-Vetch*, *Coronilla varia*; *English Ivy*, *Hedera helix*; *Tall fescue*, *Festuca elatior*; *\*Orange day-lily*, *Hemerocallis fulva*; *perfoliata*, *Vinca minor*; and *Chinese and Japanese wisteria*, *Wisteria sinensis* and *W. floribunda*.

**(ASTERIX):** An asterisk (\*) denotes that the species has cultivars that are not known to be invasive. Cultivars are cultivated varieties of plant species bred for predictable attributes like shorter height, showier flowers, or colored foliage. An example is Norway Maple 'Crimson King' grown for its reddish leaves; this cultivar is not known to be invasive. Another example are the day lilies which have a host of cultivars that are not known as invasives. If you choose to plant a cultivar of an invasive species, ask a PA certified horticulturalist (PCH), your Penn State extension agent, or a professional horticulturalist about the cultivar's potential to be invasive.

**APPENDIX C**

**Tables 1-3**

**TABLE 1**

**Runoff Curve Numbers  
[From NRCS (SCS) TR-55]**

LAND USE DESCRIPTION	HYDROLOGIC SOIL GROUP			
	A	B	C	D
Open Space (Good)	39	61	74	80
Meadow	30**	58	71	78
Agricultural	59	71	79	83
Forest	36**	60	73	79
Commercial (85% Impervious)	89	92	94	95
Industrial (72% Impervious)	81	88	91	93
Institutional (50% Impervious)	71	82	88	90
Residential				
Average Lot Size	% impervious			
1/8 acre or less*65	77	85	90	92
1/8 - 1/3 acre	34	59	74	82
1/3 - 1 acre	23	53	69	80
1 - 4 acres	12	46	66	78
Farmstead	59	74	82	86
Smooth Surfaces (Concrete, Asphalt, Gravel or Bare Compacted Soil)	98	98	98	98
Water	98	98	98	98
Mining Newly Graded Areas (Pervious Areas Only)	77	86	91	94

\* Includes Multi-Family Housing unless justified lower density can be provided.

\*\* Caution - CN values under 40 may produce erroneous modeling results.

NOTE: Site conditions of bare earth or fallow shall be considered as meadow when choosing a CN value for existing undeveloped conditions.

**TABLE 2**  
**RATIONAL RUNOFF COEFFICIENTS**  
 By Hydrologic Soils Group and Overland Slope (%)

Land Use	A			B			C			D		
	0-2%	2-6%	6%+	0-2%	2-6%	6%+	0-2%	2-6%	6%+	0-2%	2-6%	6%+
Cultivated Land	0.33 <sup>a</sup>	0.37	0.42	0.40	0.43	0.49	0.45	0.49	0.55	0.48	0.53	0.59
	0.37 <sup>b</sup>	0.43	0.48	0.44	0.49	0.55	0.51	0.55	0.63	0.54	0.59	0.69
Meadow	0.12	0.20	0.30	0.18	0.28	0.37	0.24	0.34	0.44	0.30	0.40	0.50
	0.15	0.25	0.37	0.23	0.34	0.45	0.30	0.42	0.52	0.37	0.50	0.62
Pasture	0.10	0.16	0.25	0.14	0.22	0.30	0.20	0.28	0.36	0.24	0.30	0.40
	0.14	0.22	0.30	0.20	0.28	0.37	0.26	0.35	0.44	0.30	0.40	0.50
Forest	0.05	0.08	0.11	0.08	0.11	0.14	0.10	0.13	0.16	0.12	0.16	0.20
	0.08	0.11	0.14	0.10	0.14	0.18	0.12	0.16	0.20	0.15	0.20	0.25
Residential Size 1/8 Acre	0.25	0.28	0.31	0.27	0.30	0.25	0.30	0.33	0.38	0.33	0.36	0.42
	0.33	0.37	0.40	0.35	0.39	0.44	0.38	0.42	0.49	0.41	0.45	0.54
Size 1/4 Acre	0.22	0.26	0.29	0.24	0.29	0.33	0.27	0.31	0.36	0.30	0.34	0.40
	0.30	0.34	0.37	0.33	0.37	0.42	0.36	0.40	0.47	0.38	0.42	0.52
Size 1/3 Acre	0.19	0.23	0.26	0.22	0.26	0.30	0.25	0.29	0.34	0.28	0.32	0.39
	0.28	0.32	0.35	0.30	0.35	0.39	0.33	0.38	0.45	0.36	0.40	0.50
Size 1/2 Acre	0.16	0.20	0.24	0.19	0.23	0.28	0.22	0.27	0.32	0.26	0.30	0.37
	0.25	0.29	0.32	0.28	0.32	0.36	0.31	0.35	0.42	0.34	0.38	0.48
Size 1 Acre	0.14	0.19	0.22	0.17	0.21	0.26	0.20	0.25	0.31	0.24	0.29	0.35
	0.22	0.26	0.29	0.24	0.28	0.34	0.28	0.32	0.40	0.31	0.35	0.46
Urban	0.67	0.68	0.68	0.68	0.68	0.69	0.68	0.69	0.69	0.69	0.69	0.70
	0.85	0.85	0.86	0.85	0.86	0.86	0.86	0.86	0.87	0.86	0.86	0.88
Commercial	0.71	0.71	0.72	0.71	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
	0.88	0.88	0.89	0.89	0.89	0.89	0.89	0.89	0.90	0.89	0.89	0.90
Roads	0.70	0.71	0.71	0.71	0.72	0.74	0.72	0.73	0.76	0.73	0.75	0.78
	0.76	0.77	0.79	0.80	0.82	0.84	0.84	0.85	0.89	0.89	0.91	0.95
Snow	0.05	0.10	0.14	0.08	0.13	0.19	0.12	0.17	0.24	0.16	0.21	0.28
	0.11	0.16	0.20	0.14	0.19	0.26	0.18	0.23	0.32	0.22	0.27	0.39
Ice	0.85	0.86	0.87	0.85	0.86	0.87	0.85	0.86	0.87	0.85	0.86	0.87
	0.95	0.96	0.97	0.95	0.96	0.97	0.95	0.96	0.97	0.95	0.96	0.97

Runoff coefficients for storm recurrence intervals less than 25 years.

Runoff coefficients for storm recurrence intervals 25 years or more.

Source: Rawls, W.J., S.L. Wong and R.H. McCuen, 1981, "Comparison of Urban Flood Frequency Procedures", Preliminary Draft, U. S. Department of Agriculture, Soil Conservation Service, Baltimore, MD.

Cultivated land "C" coefficients were compiled using other sources to reflect varying conditions of the ground cover due to tilling, plant growth, harvesting, maintenance, land management and similar factors.

\* Meadow and Grass Conditions were compiled using other sources to correspond to definitions grass and open space with SCS Methodology

**TABLE 3**  
**Roughness Coefficients (Manning's "n") for Overland Flow**  
**(U.S. Army Corps Of Engineers, HEC-1 Users Manual)**

<u>Surface Description</u>	<u>n</u>
Dense Growth	0.4-0.5
Pasture	0.3-0.4
Lawns	0.2-0.3
Bluegrass Sod	0.2-0.5
Short Grass Prairie	0.1-0.2
Sparse Vegetation	0.05-0.13
Bare Clay-Loam Soil (eroded)	0.01-0.03
Concrete/Asphalt - very shallow depths (less than 1/4 inch)	0.10- 0.15
- small depths (1/4 inch to several inches)	0.05-0.10

**Roughness Coefficients (Manning's "n") for Sheet Flow**  
**(U.S. Soil Conservation Service Technical Release 55)**

<u>Surface Description</u>	<u>n</u>
Smooth Surfaces (concrete, asphalt, gravel, or bare soil)	0.011
Fallow (no residue)                      0.05	
Cultivated Soils:	
Residue Cover Less Than or 20%	0.06
Residue Cover Greater Than 20%	0.17
Grass:	
Short Grass Prairie	0.15
Dense Grasses	0.24
Bermuda Grass	0.41
Range (natural)	0.13
Woods:	
Light Underbrush	0.40
Dense Underbrush	0.80

**APPENDIX D**  
**SIMPLIFIED APPROACH**

**SIMPLIFIED APPROACH**

**For Minor Regulated Activities in  
Gettysburg Borough, Adams County, Pennsylvania**

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**I. Simplified Approach Directions.....D2**

**II. Worksheet 1(Application and Permit).....D3**

**III. Record of Proposed Impervious.....D4**

**IV. Minor Stormwater Management Plan Requirements.....D5**

## **I. Simplified Approach Directions**

Regulated Activities that involve less than 800 square feet of impervious surface, where the total cumulative impervious added since the adoption date of the SWM Ordinance is less than 800 square feet, may be eligible for exemption from the portions of the Gettysburg Borough Stormwater Management Ordinance as outlined under Article III Section 302 A. Complete the following steps.

1. Fill out Worksheet 1 (Application and Permit)
2. Create Minor Stormwater Management Plan (hereinafter referred to as a “Plan”) as required per Minor Stormwater Management Plan Requirements.
3. Fill out columns 1-4 on the Record of Impervious (hereinafter referred to as the “Record”) Impervious area is defined under Section 306.R of the Gettysburg Borough Stormwater Management Ordinance. The impervious area number/letter on the Record (column 1) shall correspond to the impervious area number/letter shown on the Plan as dictated under plan requirements. Note that development of a property shall consider the total cumulative impervious since the adoption date of this Ordinance.
4. The property owner shall submit Two (2) copies of this material, along with the applicable fee, to Gettysburg Borough. The application shall not be considered to be complete unless it includes all of the information listed above.
5. Upon receipt of a complete application, the Borough Official designated by Gettysburg Borough Council to administer the Simplified Approach process shall review the application against the requirements applicable to Simplified Approach submissions. The designated Borough Official shall approve the application if the application conforms to applicable requirements. The designated Borough Official shall deny the application if the application does not conform to applicable requirements. Any denial shall be in writing and shall state the reasons for such denial.
6. The designated Borough Official shall approve or deny the complete application within fifteen (15) working days of the date of filing.
7. The property owner may, in response to denied Simplified Approach submission, resubmit the application with revisions necessary to address the reasons for denial.
8. Upon approval of a complete application, the designated Borough Official shall sign the application and permit and notify the applicant that they may initiate construction.

## II. Worksheet 1 (Application and Permit)

Property Owner's Name: \_\_\_\_\_ Phone Number: \_\_\_\_\_

Address of Property: \_\_\_\_\_

Address of Owner: \_\_\_\_\_

Contact Phone Number (if different than the Owner): \_\_\_\_\_

Contact Email: \_\_\_\_\_

Parcel ID #: \_\_\_\_\_

Total Existing Impervious on the Property: \_\_\_\_\_

Total Impervious on the Lot after Project: \_\_\_\_\_

New Impervious Area Associated with this Project: \_\_\_\_\_

Are there any known existing drainage problems or the potential for the proposed project to create drainage problems? (if yes please explain) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### *Declaration and Acknowledgement:*

- I (we) declare that I am the property owner, or representative of the owner, and that the information provided is accurate to the best of my knowledge. I (we) agree to assume full responsibility for the implementation. I (we) understand that stormwater may not adversely affect adjacent properties or be directed onto another property without written permission. I (we) declare that the proposed project will not adversely affect any, septic systems, or drinking water wells on this or any other property.
- I (we) understand that false information may result in a stop work order or revocation of permits. Municipal representatives are granted reasonable access to the property for review and/ or inspection of this project. I (we) acknowledge that the steps, assumptions, and guidelines provided in this submission will be adhered to.

Applicant Signature: \_\_\_\_\_ Date: \_\_\_\_\_

- Development activities shall begin only after Gettysburg Borough approves the Minor Stormwater Management Plan.

Borough Official Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

### III. Record of Impervious

<b>Record of Proposed Impervious</b>				
Column 1	Column 2	Column 3	Column 4	Column 5
Number (corresponding to Minor Stormwater Management Plan Proposed Impervious)	Area of Proposed Impervious (ft <sup>2</sup> )	Description (Roof, Patio, Pavement, Driveway, Gravel, etc.)	Point of Concentrated Discharge for Conveyance Facility	Notes (Provide the date at a minimum.)
<b>Proposed Impervious Since Date of Ordinance Adoption</b>				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
<b>Existing Impervious Before Date of Ordinance Adoption</b>				
A				
B				
C				
D				
E				
F				
G				
H				
I				
J				

#### **IV. Minor Stormwater Management Plan Requirements**

The items listed below are required components of a Minor Stormwater Management Plan. The Adams County Office of Planning and Development, or their successor can provide assistance to applicants to obtain property maps with the items 1-6 of the required items.

1. Property Boundary
2. North Arrow and Scale (graphic) of 1"=50' or less.
3. Aerial Photo (if the land use has changed from the photo then draw in the approximate land uses (grass, woods, etc.).
4. Building Setbacks (Labeled)
5. 2' Contours (Labeled)
6. Soils (Labeled)
7. Location of all existing and proposed impervious (home, accessory structures, driveways, etc.). The proposed impervious areas draining to a discharge point shall be numbered (1, 2, .... ) and the location of discharge from the existing and proposed impervious shall be shown, marked with an "x" or appropriate other symbol. The proposed impervious area reference number shown on the Minor Stormwater Management Plan shall correspond to the number (Column1) on the Record where the impervious area is recorded. The proposed impervious area on the plan shall be dimensioned.
8. Appropriate stormwater facilities to ensure stormwater is not creating problems on adjoining properties.
9. Discharges across sidewalks are not acceptable.
10. Slope/flow direction arrows Distance from proposed downspouts along flow path to property lines, drainage ways (natural or manmade), wooded areas, offsite structures on and 50 feet beyond the property line.
11. Grading spot elevations and/or contours defining the proposed flow characteristics

Two (2) copies of the Minor Stormwater Management Plan shall be submitted as part of the application.

# MCM #4 Appendix

- MCM #4 Project Plan

# MCM #4 Project Plan

- BMP 4.1

Description:

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.

Action Plan:

The Borough checked Option MCM #4.A in Section E(4) - (5) of the Annual. Therefore, they are relying on DEP's statewide QLP for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities to satisfy all requirements under this Minimum Control Measure.

- BMP 4.2

Description:

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.

Action Plan:

The Municipality checked Option MCM #4.A in Section E(4) - (5) of the NOI. Therefore, they are relying on DEP's statewide QLP for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities to satisfy all requirements under this Minimum Control Measure.

The Municipality is planning to pursue a Memorandum of Understanding (MOU) with the Adams County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the municipality. A record of all correspondence with the Conservation District is kept by the municipality to document the District's activities.

The Municipality has a responsibility to ensure that adequate NPDES permitting and Erosion and Sedimentation Control Plans are in place, when applicable, prior to the issuance on a building permit. Additionally, upon request by the Conservation District, the Municipality will suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.

- BMP 4.3

Description:

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

Action Plan:

None Specified

- BMP 4.4

Description:

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

Action Plan:

None Specified

- BMP 4.5

Description:

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.

Action Plan:

None Specified

- BMP 4.6

Description:

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

Action Plan:

None Specified

- BMP 4.7

Description:

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.

Action Plan:

None Specified

- BMP 4.8

Description:

Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public to the permittee regarding location construction activities.

Action Plan:

None Specified

# MCM #5 Appendix

- **MCM #5 Project Plan**
- **BMP 5.3 Attachments**
  - Existing and Proposed BMP Locations

# MCM #5 Project Plan

- BMP 5.1

Description:

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.

Action Plan:

The Municipality adopted an ordinance consistent with the Adams County Model Act 167 Ordinance on November 13, 2012. The approval process is summarized as follows:

i. Land development plans and subdivision are reviewed by Borough staff and the Borough engineer for conformance with the SWM Ordinance and conformance with the required permitting through the regulatory agencies (local, state, national). This review process begins with an informal "in-house" review with the developer and developer's engineer. The plans are then presented to the Borough Planning Commission at a regularly scheduled public meeting. Any outstanding review comments in regard to Borough Ordinances, regulatory permitting, and general engineering good practices are discussed during the public Planning Commission meeting. The Planning Commission makes a recommendation on whether the plan should be brought before the Borough Council for consideration. Once the plan is in reasonable conformance with outstanding review comments, the plan is presented to the Borough Council during a regularly scheduled public meeting. Once the plan is approved, any outstanding conditions are documented. The plan is recorded at the County Recorder's office once all conditions are resolved.

ii. One of the conditions that must be met is the payment or bonding of a financial security to guarantee all public improvements will be constructed, including SWM BMPs and SW conveyance. The financial security must be provided if the improvements will not be constructed prior to recording of the plan. During construction of the public improvements, the Borough's inspector ensures that the improvements are constructed in accordance with the approved plan and in accordance with the Borough's construction standards. The financial security is released once public improvements are verified to be complete by the inspector.

- BMP 5.2

Description:

Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development or 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.

Action Plan:

The Municipality adopted an ordinance consistent with the Adams County Model Act 167 Ordinance on November 13, 2012 which contains multiple requirements related to LID and the protection of natural features. The Stormwater Management Ordinance also requires the protection of natural features such as floodplains, wetlands, wooded areas, and existing vegetation.

- BMP 5.3

Description:

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.

Action Plan:

The Borough has identified that all PCSM BMPs within the Borough that qualify for coverage under the MS4 Permit are currently owned by the Borough. These BMPs are inspected and maintained by the Borough Public Works crew as part of their regular maintenance responsibilities.

In the event a privately owned, MS4 eligible BMP is installed within the Borough, this plan will be reevaluated.

- BMP 5.4

Description:

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.

Action Plan:

None Specified

- BMP 5.5

Description:

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 PCMS 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).

Action Plan:

None Specified

- BMP 5.6

Description:

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

Action Plan:

None Specified

# GETTYSBURG BOROUGH EXISTING AND PROPOSED BMP LOCATIONS

EXISTING BMPs		
No.	BMP Name	BMP Type
1	227 N Washington St	Filtering Practices
2	339 Carlisle Street	Bioretention-Rain Garden (A/B Soils w/ Underdrain)
3	Best Western Hotel	Bioretention-Rain Garden (A/B Soils w/ Underdrain)
4	Bus Transfer Center 1	Bioretention-Rain Garden (A/B Soils w/ Underdrain)
5	Bus Transfer Center 2	Bioretention-Rain Garden (A/B Soils w/ Underdrain)
6	Central Energy Plant	Permeable Pavement w/o Sand or Veg. (A/B Soils w/ Underdrain)
7	Eisenhower House	Filtering Practices
8	Future Stakes Land Development	Bioretention-Rain Garden (A/B Soils w/ Underdrain)
9	Gettysburg College - Brua Drive	Filtering Practices
10	Gettysburg College- Dining Hall	Infiltration Practices w/ Sand, Veg.
11	Gettysburg College Union Building 1	Permeable Pavement w/o Sand or Veg. (A/B Soils w/ Underdrain)
12	Gettysburg College Union Building 2	Filtering Practices
13	Gettysburg Hospital	Dry Extended Detention Basins
14	Habitat for Humanity- N 5th Street	Permeable Pavement w/o Sand or Veg. (A/B Soils w/ Underdrain)
15	Lutheran Seminary Historical Trail	Bioretention-Rain Garden (A/B Soils w/ Underdrain)
16	Lutheran Seminary Western Gateway	Dry Extended Detention Basins
17	Musselman Stadium Renovation	Filtering Practices
18	Orchard Development 1	Permeable Pavement w/o Sand or Veg. (A/B Soils w/ Underdrain)
19	Orchard Development 2	Filtering Practices
20	West Street Plaza	Permeable Pavement w/o Sand or Veg. (A/B Soils w/ Underdrain)
21	York Dental	Permeable Pavement w/o Sand or Veg. (A/B Soils w/ Underdrain)

**PROJECT NO. 6  
GETTYSBURG REC. PARK  
STREAM RESTORATION AND RAIN GARDENS**

**PROJECT NO. 8  
RACE HORSE ALLEY GREEN STREET PROJECT**

**PROJECT NO. 1  
GETTYSBURG INNER LOOP (SEG. A)  
STREAM BANK RESTORATION**

**PROJECT NO. 2  
GARA PARKING LOT IMPROVEMENTS**

**PROJECT NO. 3  
GARA PARKING LOT D IMPROVEMENTS**

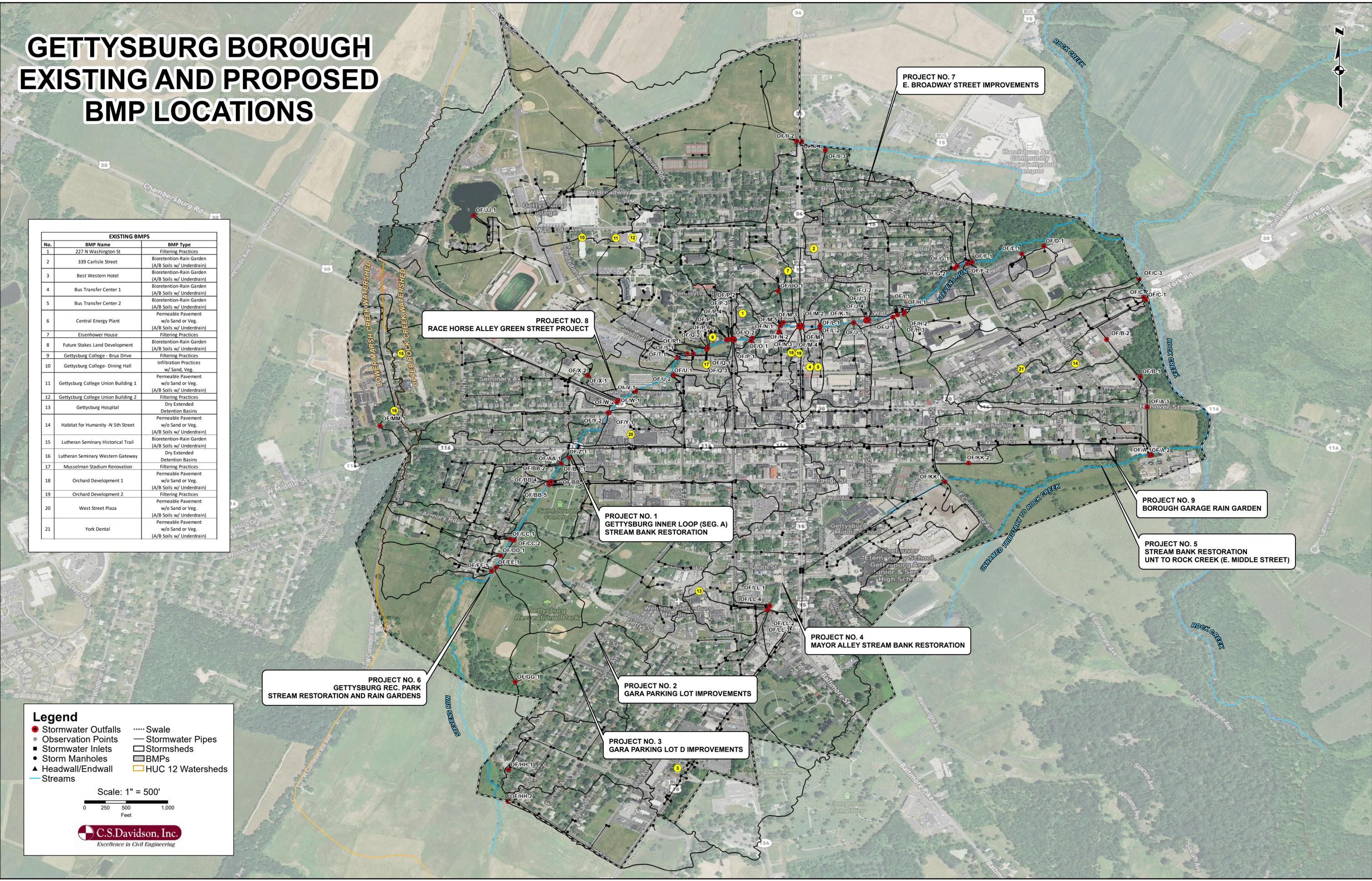
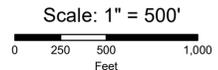
**PROJECT NO. 4  
MAYOR ALLEY STREAM BANK RESTORATION**

**PROJECT NO. 7  
E. BROADWAY STREET IMPROVEMENTS**

**PROJECT NO. 9  
BOROUGH GARAGE RAIN GARDEN**

**PROJECT NO. 5  
STREAM BANK RESTORATION  
UNT TO ROCK CREEK (E. MIDDLE STREET)**

- Legend**
- Stormwater Outfalls
  - Observation Points
  - Stormwater Inlets
  - Storm Manholes
  - ▲ Headwall/Endwall
  - Swale
  - Stormwater Pipes
  - Stormsheds
  - BMPs
  - ▭ HUC 12 Watersheds
  - Streams



# MCM #6 Appendix

- MCM #6 Project Plan

# MCM #6 Project Plan

- BMP 6.1

Description:

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 the contractors for the permittee.

Action Plan:

The Borough has identified the following types of facilities currently owned and operated within the MS4:

- Streets/Roads/Highways
- Parking Lots
- Maintenance and Storage Yards
- Parks
- Fleet or Maintenance Shops
- Stormwater Conveyances (Open or Closed)
- Stormwater Storage/Treatment Units

The Borough has identified the following types of activities which currently occur within the MS4:

- Street Sweeping
- Snow Removal/Deicing
- Inlet/Outfall Cleaning
- Lawn/Grounds Care
- General Storm Sewer Maintenance/Repairs
- Park and Open Space Maintenance
- Municipal Building Maintenance
- Right-of-way Maintenance
- Vehicle Operation
- Vehicle Fueling
- Vehicle Washing
- Vehicle Maintenance
- Leaf/Yard Debris Disposal

- BMP 6.2

Description:

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.

Action Plan:

None Specified

- BMP 6.3

Description:

Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from operations to the

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

Action Plan:

1. The Borough will identify a list of municipal employees who need to receive MS4 training.
2. Records of all training events attended shall be maintained by the Borough. This training can include formal or informal training provided by government agencies, non-profit groups, consultants or internal staff.